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SAN FRANCISCO CANCER SURVEY

THIRD PRELIMINARY REPORT

(FIFTH AND SIXTH QUARTERLY REPORTS)

HOFFMAN



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SAN FRANCISCO CANCER SURVEY

THIRD PRELIMINARY REPORT

(Fifth and Sixth Quarterly Reports)

By FREDERICK L. HOFFMAN, LL.D.,

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SAN FRANCISCO CANCER SURVEY

INTRODUCTION

The present consolidated report for the Fifth and Sixth Quarters of the San Francisco Survey covers the six months ending with December 31, 1925. A large amount of new material has been examined, tabulated and critically considered as far as the available time and circumstances would permit. Probably more than 20,000 cancer death certificates are now receiving specialized consideration, aside from approximately 1,200 completed questionnaires concerning living cancer patients in San Francisco, Buffalo, Newark, New Orleans and the State of Massachusetts. Progress with so large an amount of data is necessarily slow, but the present publication will add materially to the information now available.

It is thus apparent that what is called the San Francisco Cancer Survey has unintentionally developed into a survey of national scope and interest. This has been unavoidable, to supply the uses of comparative or control data, since no similar tabulation or analysis has heretofore been attempted for this country. Of special importance is an arrangement entered into with the Mayo Clinic through the courtesy of Dr. William J. Mayo and Dr. Verne C. Hunt, by which cancer questionnaires are being filled in for me at the clinic and will later be amplified by a follow-up system to provide a check upon post-operative results.

Equally important is a satisfactory arrangement entered into with the State Institute for the Study of Malignant Disease, at Buffalo, N. Y., through the kindness of Dr. Burton T. Simpson, of Buffalo. At the Institute a special investigator, Miss Rachel Jenss (Vassar, 1925), is, under my direction, securing information concerning living cancer patients by means of a questionnaire, in a uniform manner with investigations made in other cities and sections. Special attention, however, is being given in Buffalo to matters of diet, fecundity and heredity.

In addition to the foregoing subject, the treatment by radium is receiving particular consideration. This aspect of the investigation, however, is rather involved, particularly as regards after-treatment results, as to which, however, some valuable information should in the course of time be forthcoming. A similar arrangement could be affected with the hospital of the University of California at San Francisco, which has probably the most complete cancer records of any institution in this country, especially as regards gynecological cases. Aside from the foregoing, and partly as the result of my cancer lectures in Canada, I have been furnished with cancer records for the entire Province of British Columbia, through the kindness of Dr. H. E. Young, Provincial Health Officer. These statistics are now being tabulated for me by a group of students at Boston University, under the direction of Dr. C. E. Carroll. Similar certificates have been promised by the cities of Toronto and Winnipeg and the Provinces of Saskatchewan and Alberta, so that there will be added to the American data in the near future a wealth of information for almost the whole of western Canada.

I may say in this connection that Vancouver and Victoria have the highest cancer death rates. In this respect the Canadian situation conforms precisely to the situation on the Pacific Coast of the United States. An interesting sidelight of the investigation in western Canada will be the facts disclosed for the population of Icelandic origin as well as for the Oriental element living in the Province of British Columbia. Attention will also be given to native Indians living in all parts of the western section of the Dominion.

Certain preliminary results of the cancer survey have been communicated from time to time to the public in lectures, but particularly so in my address before the Philadelphia County Medical Society, November 5, 1925. My Canadian cancer lectures have been reprinted under the titles "Cancer in Canada" and "Cancer Facts and Fallacies," through the courtesy of The Prudential Insurance Company.

The present publication includes a detailed list of the cancer deaths of San Francisco and Boston during the five years ending with 1924, according to streets and house numbers. The tabulation reveals for the first time the extent to which cancer deaths during the period stated have occurred in the same house more than once. This matter is being followed up by special investigations, but only slow progress is being made in this direction, as it is not an easy matter to cover so large a city as San Francisco, and so large a number of houses as are involved, with the required thoroughness in detail. The present indications are that the results in San Francisco are not likely to support the theory of a parasitical origin of cancer or a distribution through infection, or contact from person to person.

The returns for Portsmouth, England, are included as a contribution towards a more comprehensive international comparison, which it is hoped in the course of time will be possible, if the methods adopted in the present investigation are followed elsewhere. The statistical aspects of the cancer problem are now receiving extended consideration on the part of the Cancer Committee of the League of Nations, the Ministry of Health of Great Britain and the Health Departments of Holland and Italy. Unfortunately, European death certificates do not contain all the information which is given on the standard death certificates in use throughout this country. The statistical results of the cancer inquiry by the League of Nations have just been published in two volumes entitled: "Report of the Results of Certain Clinical Inquiries Relating to Differences of Cancer Mortality in Certain Selected Countries" and "Report of Results of Demographic Investigations in Certain Countries." These two publications are the most notable contributions of their kind that have ever been made to the statistical study of the cancer problem, and, while limited to area and regarding certain organs and parts, they are suggestive of the great practical value of such an investigation when made by those competent to do so.

During the past six months I have given special consideration to the time factor of the disease, or, in other words, its known duration from the time of onset to the time of death. This part of the investigation has not been limited to all forms of cancer collectively, but has been extended to every important form of cancer, with a due regard to sex. The results in this respect are probably the first collective data of their kind ever published on the subject in complete detail. They are extremely suggestive and should be particularly helpful in the furtherance of efforts to bring about a better understanding on the part of the public as well as on the part of the medical profession regarding the supreme importance of the time factor, which has recently been emphasized in an address by Dr. Lazarus Barlow of the Medical School, London.

Questionnaire results are for the present only available in preliminary form and without extended observations. They cover a large amount of material concerning which collective investigations have not heretofore been on a scale proportionate to their importance. The results are decidedly suggestive, but, of course, are subject to the criticism that they represent the viewpoint and opinion of the patient, not verified or verifiable by more scientific methods of research. All of this information should be considered merely as a contribution to the ascertainment of the approximate truth of the present cancer situation rather than as an exact scientific statement of the facts and conditions involved.

The present report includes a series of detailed tables giving the cancer death rates according to sex for forty organs and parts concerning which information has not heretofore been available in similar form. It is strongly felt that this method of detailed analysis is likely to prove extremely useful in ascertaining the causative or contributory factors responsible for an excessive death rate. I cannot on this occasion enlarge upon results, but a few of the more striking facts may be pointed out.

In San Francisco, the male death rate for cancer of the stomach is 45.1 against a female mortality from carcer of the stomach of 21.8. For Boston the corresponding figures are 30.8 for males and 24.6 for females; for Albany, N. Y., 35.2 for males and 23.1 for the females; for Chicago, 33.9 for the males and 23.4 for females. For the white population of New Orleans the figures are 27.3 and 18.8. There are, therefore, important differences in the local rate of incidence of the most important form of cancer which affects both sexes to a variable degree.

Another striking difference are the local variations in the rates for cancer of the uterus. For San Francisco the rate is 33.7 per 100,000 of the female population; for Albany, 30.8; Boston, 30.3; Chicago, 26.0; for the white population of New Orleans, 32.0; and the colored population of New Orleans, 52.9. For cancer of the breast the rates have been as follows: For San Francisco, 26.3 per 100,000 of the female population; for Albany, 29.7; for Boston, 26.0; Chicago, 19.9; for the white population of New Orleans, 8.8; and for the colored population of New Orleans, 16.8. Information of this kind should be of value to the medical profession and suggestive of lines of more extensive specialized research.

Among other facts, the death certificates reveal information as to whether the death was preceded by an operation. In brief, it is shown that of those who died from cancer the proportion who had been operated upon previous to death was 58.7 per 100,000 for San Francisco, 53.6 for Boston, 53.6 for Albany, 44.8 for Chicago, 26.7 for the white population of New Orleans, and only 6.9 for the colored population of New Orleans.

Reference may also be made to the frequency with which autopsies have been reported in cancer deaths in proportion to the population affected. In San Francisco the cancer mortality followed by autopsy for both sexes combined was 19.9 per 100,000; for Albany, 9.5; Boston, 8.0; Chicago 10.2; for the white population of New Orleans, 1.6; and for the colored population of New Orleans, 0.4. The disparity in the results regarding both operative treatment and autopsy disposition is suggestive of further investigation which may possibly be feasible some time in the future.

A widely varying factor in the cancer mortality is the rate at which married women die from cancer in the different cities proportionate to the total female population. For San Francisco the rate was 70.4 per 100,000; for Albany, 75.2; Boston, 67.8; Chicago, 67.6; the white population of New Orleans, 60.5; and for the colored population of New Orleans, only 20.7. It is generally held that there is a definite and traceable relation between child-bearing and cancer of the female generative organs, including the breast, but heretofore the facts in the case have not been presented in sufficient detail to justify definite conclusions. The questionnaires in course of time should yield much additional information and valuable data on this point which cannot be decided upon on the basis of the death certificates alone. My questionnaires give information as to the number of children, with a due regard to the organ or part of the body affected with cancer, and this, in Buffalo in particular, is being followed by a special inquiry to make sure that all the births, living or dead, are properly returned. My own views on this phase of the cancer problem have been largely guided by the recent work on "Cancer and Tumors," by Dr. Hastings Gilford, the author of a standard treatise on Post-Natal Growth and Development.

For the present no new information is forthcoming regarding the frequency of cancer in native races or in the different racial elements in the various cities considered. This is a phase of the problem which is surrounded by many practical difficulties, particularly as regards the correct ascertainment of the living population of corresponding sex and age distribution. I hope, however, in the near future to be able to give more attention to our native Indian population and the corresponding Indian population of western Canada, with regard to which I have recently been furnished with some very valuable information through the courtesy of the Chief Health Officer of the Province of Ontario, Dr. McCullough.^{*}

*See my address on "Cancer in Native Races," Albany, April, 1926. (Prudential Press, 1926.)



FIFTH QUARTERLY REPORT ON THE CANCER INVESTIGATION FOR THE QUARTER ENDING SEPTEMBER 30, 1925

It affords me pleasure to be able to say that a second printed report on the San Francisco Cancer Survey will shortly be available. The report which makes a document of nearly 200 pages has been generously reprinted by The Prudential Insurance Company. It will contain a large amount of entirely new information represented by some twenty-six special appendices. For the statistical tabulations in connection with this matter, which have been very thorough and time-consuming, I am under particular obligations to the John Hancock Mutual Insurance Company.

A third printed report is now in course of preparation. This report will probably contain, among others, appendices on:

(1) Cancer death rates by organs and parts, in accordance to sex, for six or seven representative cities of this country in addition to San Francisco. The rates are the result of a special analysis of nearly 20,000 cancer death certificates. No such comparison has heretofore been made nor have any such data been heretofore available.

(2) An analysis of the cancer mortality of Madison County, N. Y.

(3) Cancer of the breast will be dealt with in a special report based upon the collective life insurance investigations made some years ago but as to which the results have never been published.

(4) A special report will be made on cancer of the buccal cavity, which is attributed to smoking habits.

(5) There will be an appendix to the cancer mortality of San Francisco by streets and possibly by assembly districts of really extraordinary value in connection with discussions of the possible parasitical origin of cancerous infections. I may say, however, that my own personal studies of the situation in San Francisco seem to preclude the possibility that cancer is an infectious or parasitical disease.

(6) Questionnaire results with reference to male cancer patients will be dealt with in the form adopted in the forthcoming printed report for females. I have now not far from 1,000 questionnaires and more will be forthcoming.

(7) The mortality of Boston will be dealt with in an extended form corresponding to the data for San Francisco, Albany and New Orleans, all of which have been published in the First and Second printed reports.

A special worker, Miss Rachel Jenss, is being employed under my direction at the Buffalo Institute for Malignant Diseases and at the expense of the survey. She is working under very definite instructions, subject to occasional conferences as opportunity requires. She is under the direct supervision of the Director of the Institute, who is deeply interested in the results. She should produce possibly not less than 500 questionnaires in due course of time, fully amplified by hospital notes and personal visits. Special value must be attached to this investigation in view of the unusual conditions, since the Institute deals almost exclusively with cases of malignant diseases, and has on its staff some of the very foremost experts in particular phases of the cancer problem available anywhere in this country.

It also affords me great pleasure to be able to say that the Mayo Clinic has agreed to use the questionnaire in the future, and furthermore to continue the observations for a period of at least five years after the discharge of the patient from the Clinic. This coöperation should prove productive of extremely valuable results in view of the unusual ability and large quantity of clinical and pathelogical material available for the scientific study of cancer cases.

During my Pacific Coast trip I had occasion to interview the health officer of Los Angeles and San Diego with a view of obtaining cancer records of these two cities, which are urgently needed to complete my Pacific Coast investigations. The outlook is favorable that certificates for 1924-1925 will be furnished. Unfortunately the boards of health in question are not in a position to render much voluntary assistance on account of inadequate office force, while I myself am not in a position to offer the required compensation.

In the furtherance of my general cancer studies I have made some investigations of cancer in Canada and on several occasions have addressed Canadian medical audiences as well as the public on the Canadian cancer problem, which has recently been reprinted and published by The Prudential Insurance Company. As the result of my public activities, particularly at Montreal, Toronto, Winnipeg, Regina and Victoria, a large measure of support has been promised, of which it is hoped advantage may be taken in the near future. A Canadian Cancer Survey corresponding to the American Cancer Survey would produce results of really extraordinary value. It is, for illustration, shown by my figures that in Canada, as in this country, the cancer death rate is highest in the cities on the Pacific Coast, or Vancouver and Victoria. The matter has been fully explained to the local authorities, and, as the result of discussions, I have been promised copies of cancer death certificates for Winnipeg and the Provinces of Saskatchewan, Alberta and British Columbia. A like measure of support may be anticipated from Ontario, but for the time being this matter cannot be taken up in view of the unavoidable expense involved in the ultimate tabulation, analysis and critical consideration of the data furnished.

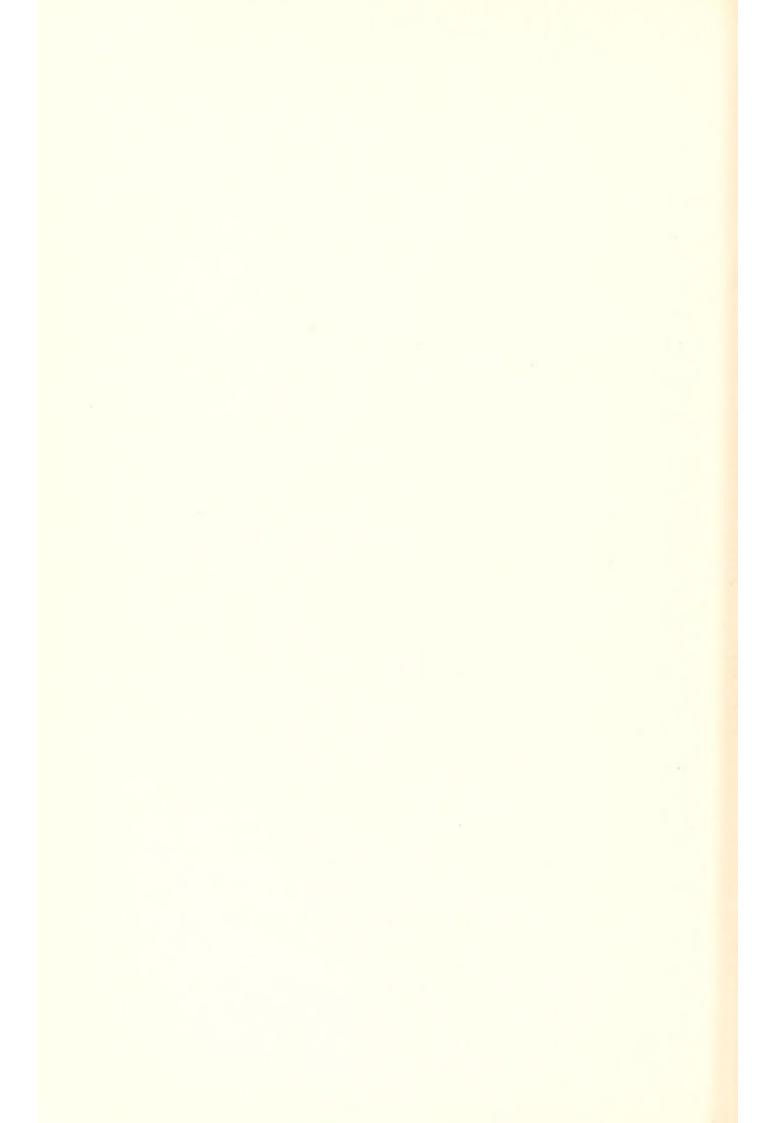
During my Canadian visit I delivered serveral addresses under the general title of "Some Cancer Facts and Fallacies," which has also been published by The Prudential Insurance Company, and of which copies will be sent with this report.

In view of the foregoing I feel that the outlook for further results is decidedly encouraging. The outstanding result of the investigation thus far is the precise ascertainment of the known duration of the disease previous to qualified treatment. This, in San Francisco, for illustration, is eighteen months, which is certainly twelve months too long for hopeful and encouraging results. To the extent that the public become familiar with this single fact of the cancer situation the outlook for better treatment will be corresponding improved. Another fact of outstanding importance is the comparative rates of frequency for different organs and parts in different sections of the country. This will be dealt with fully in my forthcoming printed report which will make the third in connection with the present investigation.

It may not be opportune for me to point out that the recent discoveries in England as regards an alleged cancer parasite have no practical bearing upon the present lamentable cancer situation. They cannot be applied to any practical purpose in the furtherance of the campaign for the control of cancer or, in other words, the better education of the laity and the medical profession as regards measures of early treatment and more hopeful results. The questionnaire method, however, is yielding data that may prove of preventive value, particularly as regards dietary errors and the inherent risk of excessive habits of smoking with particular reference to cancer of the buccal cavity, the throat and the oesophagus.

F. L. H.

Newark, N. J., September 30, 1925.



SIXTH QUARTERLY REPORT ON THE SAN FRANCISCO CANCER SURVEY

The survey is making progress and a new publication containing a large amount of additional matter will shortly be available, containing the third and fourth quarterly reports with statistical appendices. The survey now represents about 20,000 cancer death certificates and about 1,000 returned questionnaires, outside of a number of additional questionnaires in prospect. It is, of course, self-evident that the data must first be available in permanent form before it will be advisable to advance whatever conclusions the facts may justify. The analysis of all certificates and questionnaires is in conformity to a standardized method of procedure which it is hoped in course of time may be adopted in similar investigations elsewhere. The questionnaires will probably be adopted by the Massachusetts Cancer Survey which has been recently authorized by the legislature, but unfortunately on a very limited scale of operations. My own method is also in conformity to a somewhat similar method which is being followed by the cancer committee of the League of Nations in connection with investigations of cancer of the breast and female generative organs in England, Italy and Holland.

The cities and areas that are now coöperating are the following: San Francisco, Oakland, Chicago, Rochester, Minn., Buffalo, Albany, Madison County, N. Y., Boston, East Orange, N. J., and New Orleans. As the result of recent addresses on cancer in Canada, read before Canadian public health and Ontario medical associations, there is a possibility that Canadian coöperation may be secured which would add a large amount of most useful data to the present investigation.*

While I originally intended to have limited the investigation to San Francisco, it was found necessary to secure data for other communities, since no comparable statistics would otherwise have been available. The universal use of the standard death certificate makes such a comparison possible, but only by the method that has been followed in the present investigation. Ordinarily, boards of health do not extend the analysis of death certificates beyond the age, the sex, the date and the cause of death, while my investigation includes every important item on the certificate directly or indirectly bearing upon the general aspect of the cancer problem.

A matter of special interest will be the detailed examination of cancer deaths by particular organs and parts. Ordinarily, both on the part of the census office and local board of health, cancer deaths are given only in

*Five years of cancer records have been received from British Columbia and the Province of Saskatchwan,

six groups of organs or parts, which precludes really useful observations. In my own classification I deal with about forty specified organs and parts according to sex, and for New Orleans also according to race. These death returns are now being worked out to clearly illustrate the particular frequency of special tumorous formations in different parts of the country. For illustration, for San Francisco it is shown that while the male mortality for cancer of the lip is 1.1 per 100,000 of population, it is only 0.2 for females. For Chicago, the corresponding figures are 0.4 per 100,000 for males and 0.2 for females. For cancer of tongue the San Francisco rate is 5.1 for males and 0.5 for females, but for Chicago the corresponding rates are 2.2 for males and 0.3 for females. An extraordinary difference is also disclosed in the relative frequency of cancer of stomach. For San Francisco the rate for males is 45.1 per 100,000 against only 21.8 for females, but for Chicago the corresponding rates are 33.9 for males and 23.4 for females. Cancer of the ovary appears to be equally frequent in both cities, or 3.6 for San Francisco and 3.5 for Chicago, but cancer of uterus occurs at the rate of 33.7 per 100,000 among the women of San Francisco, while the rate for the women of Chicago is only 26.0. Somewhat similar is the difference in the relative frequency of cancer of the female breast, which for San Francisco is 26.3 per 100,000 against only 19.9 for Chicago. For all forms of cancer combined the rate for the male population of San Francisco is 148.7 and for females 149.1, or practically the same, but for Chicago the corresponding figures are 110.1 for males and 125.9 for females.

Among other important facts disclosed by the investigation, mention may be made of some of the following: Treatment by operation previous to death occurred in 57.8 per 100,000 among the population of San Francisco and 44.8 for the population of Chicago. The rate of autopsy disposition was 19.8 for San Francisco and 10.2 for Chicago. Cancer deaths in hospitals occurred at the rate of 76.4 per 100,000 in San Francisco, but only at the rate of 47.5 in Chicago. The proportion of single persons for San Francisco was 18.6 per 100,000 against 12.0 for Chicago. The facts have not as yet been fully gone into, but they will probably be dealt with in detail later on.

Similar statistics will be available for other cities in course of time and may be included as an appendix to the printed report. Considerable progress has been made with localizing cancer deaths in San Francisco by particular blocks, streets and houses to ascertain the relative incidence by small civic divisions, or at least by assembly districts. The population data for this purpose have been furnished from unpublished sources of the census office, but unfortunately I have as yet been unable to obtain an absolutely accurate map for San Francisco for 1920, minor changes having been made in district boundaries during recent years. These and other matters will be taken up locally when I am in San Francisco during the present summer.

It is my intention to make myself thoroughly familiar with the topography of every section of the city which may reveal an excessive cancer incidence in proportion to population as far as this is possible to be determined. All the blocks of the city containing over five cancer deaths during the last five years have been marked on a map and these will be visited. This matter is one of considerable importance in view of some recent observations by Dr. Louis Sambon in the Journal of Tropical Medicine and Hygiene, in support of the parasitical theory of cancer origin. Thus far my conclusions on the basis of our San Francisco investigations do not lend support to this point of view, however well sustained for certain small localities in Europe. In course of time the control data for other cities will be dealt with in a like manner and the theory will be given the largest opportunity of proof or disproof as the case may be. The localizing of cancer deaths is extremely arduous, involving much supplementary correspondence to establish the facts of local residence with certainty regarding those who die in hospitals or institutions.

The residence question for San Francisco is also complicated by the proximity of Oakland. I am, therefore, pleased to say that the health officer of Oakland has seen his way clear to furnish me with cancer death certificates for 1924, which will be sufficient for the purpose of establishing how many San Francisco residents have died in Oakland or in Oakland institutions. To my regret it has not as yet been possible to extend the survey to other California cities, particularly Los Angeles and San Diego, which during recent years have shown extremely high cancer death rates. The San Diego rate now exceeds 200 per 100,000 of population! Granting that the rate is increased by non-residents or invalids from other localities, the matter is one demanding a searching inquiry into local facts which might add materially to our understanding of the cancer question on the Pacific Coast.

The questionnaire method of inquiry concerned with living cancer patients is producing excellent and instructive results. Aside from 575 cancer questionnaires for San Francisco, I have been furnished with quite a number of questionnaires for New Orleans through the kindness of Dr. Rudolph Matas: for Chicago through the kindness of Dr. Bundessen: for Buffalo through the kindness of Dr. Fronzac: for Newark, N. J., through the kindness of Dr. Edward J. Ill; and for Boston, Mass., through several physicians connected with local hospitals. Arrangements have also been made with several physicians in Washington, D. C., through the coöperation of Dr. Bovee and Dr. Kerr. For Buffalo an arrangement has been made with the State Institute of Malignant Diseases, under the direction of Dr. Simpson, to have questionnaires collected during the year. For this I have secured the assistance of a special investigator, whose expenses I have assumed. The questionnaire method provides the required amplification of data usually derived from death certificates alone. The preliminary results for San Francisco will be included in the forthcoming publication.

Others will probably be presented in the form of statistical appendices in due course of time. The outstanding facts revealed by this method of inquiry are the marked excess in meat and sugar consumption, the relatively large proportion of patients suffering from habitual intestinal stasis, the relatively high incidence of rheumatic affections, the relative rarity of gastric ulcers, gall stones and diabetes, and the negative results as regards an authentic family history of cancer.

In addition to the foregoing I have reëxamined a large number of reports on cancer cases made by life insurance companies about five or six years ago, but considered of doubtful value by a special committee of the American Society for the Control of Cancer. I felt that this material should not be entirely permitted to go to waste, and I have therefore tabulated all the reports furnished me, representing for cancer of breast 29 male cases and 1,726 female cases, and for cancer of buccal cavity 804 male cases and 158 female cases. The results will probably be dealt with in my next report.

As also bearing upon the cancer problem, I have made an examination of some fifteen years of mortality reports of the Massachusetts Soldiers' Home, which have been placed at my disposal. These have been dealt with in a preliminary way in a brief communication to the Boston Medical and Surgical Journal.

The investigation of San Francisco emphasizes a greater frequency of cancer among certain foreign-born elements. Unfortunately no census data are available that give the population by the birthplace of mothers, which, for medical purposes, is the most conclusive test of racial pathology. The difficulty has not yet been solved as to how the data can be dealt with. I had hoped to secure some information of real value regarding the Oriental population of San Francisco and possibly for the Mexican and Indian element of California and the southwest. The data for the Japanese population are especially interesting on account of the rarity of cancer of the breast in Japanese women. The general facts regarding the Japanese I have recently dealt with in a brief communication to the Journal of the American Medical Association.

More and more attention is now being given on the part of those concerned with cancer research to the rarity of cancer in native races, and I have therefore entered into extensive correspondence with authorities in remote parts of the world for the purpose of obtaining supplementary data in amplification of my own investigation among the native Indian population of this country and Central and South America. As far as possible these and many other matters will receive further consideration as opportunities permit.

The present investigation represents, in all probability, the largest amount of cancer material ever dealt with statistically in detail for any portion of this country. The census report for 1914 on the cancer mortality of the country entered largely into questions which would have been of

greater value if a comparative report for more recent years were available. No facts have come to my attention thus far which contradict the conclusions advanced by me during the last fifteen years, that cancer in this as well as other civilized countries is unquestionably and considerably on the increase. My cancer review for 1924 reëmphasizes this conclusion in a rather startling manner by visualizing the facts for a large number of cities, most of which now have recorded cancer death rates in excess of 100 per 100,000 of population. When the campaign against cancer was initiated by the American Society for the Control of Cancer about ten years ago, the actual mortality from cancer in this country was placed at 75,000. At the present time it is probably as high as 110,000, if not higher. Cancer control cannot be expected to prove effective until there is a much larger and more trustworthy body of facts available for particular localities. The underlying aim of the present investigation is, therefore, primarily to develop a method of inquiry useful for educational purposes, so as to bring the facts of a truly appalling situation clearly before the public.

F. L. H.

Newark, N. J., December 31, 1925.



APPENDICES

APPENDIX A-CANCER MORTALITY OF BOSTON-1920-1924

Males and Females

Table

- 1. By months.
- 2. By birthplace of mothers.
- 3. By time of death.
- 4. By age at time of death.
- 5. By known duration of disease.
- 6. By treatment by operation.
- 7. By autopsy disposition.
- 9. By marital condition.

Table

- 10. By organs and parts.
- 11. By single years of life and average age, according to organs and parts.
- 12. By surgical operation, according to organs and parts,
- 13. By marital condition (females), according to organs and parts.
- 14. By duration of disease, according to organs and parts.

APPENDIX B—CANCER MORTALITY OF CHICAGO—1924

Males and Females

Table

- 1. By organs and parts.
- 2. By months.
- 3. By birthplace of mother.
- 4. By method of diagnosis.
- 5. By length of residence at place of death.
- 6. By age at time of death.
- 7. By time of death,

Table

- 8. By duration of disease by months.
- 9. By treatment by operation, according to population-By autopsy disposition-By place of occurrence-By marital condition.
- 10. By age at time of death, by organs and parts.
- 11. By known duration of disease in months, according to organs and parts.

Appendix C-Cancer Mortality of Portsmouth, Eng.-1919-1924

Males and Females

Table

1. By age at time of death.

Table

2. By organs and parts.

APPENDIX D-CANCER DEATH RATES IN VARIOUS CITIES

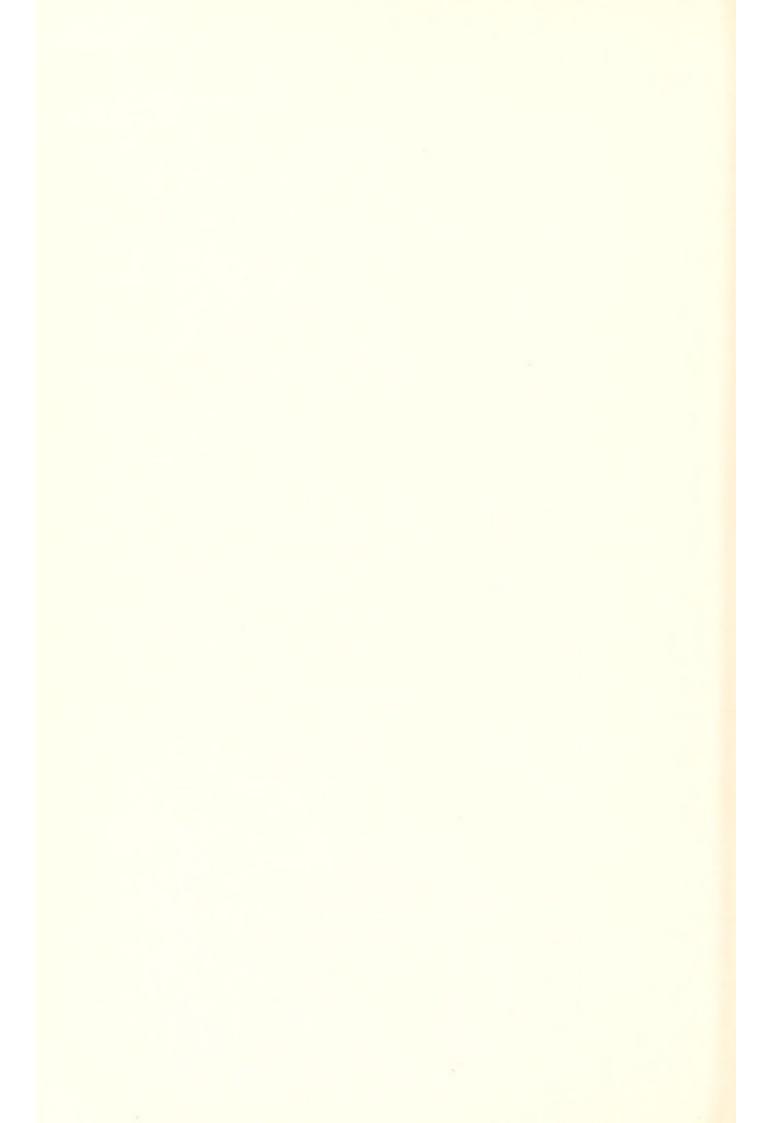
Table Table 1. Albany, N. Y.-1919-1923. 5. New Orleans, La. (White)-1919-1923. 6. New Orleans, La. (Colored) -1919-1923. 2. Boston, Mass.-1920-1924. 3. Buffalo, N. Y .--- 1922. 7. San Francisco, Calif.-1920-1924.

8. Portsmouth, Eng.-1919-1924.

4. Chicago, Ill.-1924.

APPENDIX E-CANCER MORTALITY OF SAN FRANCISCO-1920-1924 By Streets and Houses

APPENDIX F-CANCER MORTALITY OF BOSTON, MASS.-1920-1924 By Streets and Houses



APPENDIX A

CANCER MORTALITY OF BOSTON-1920-1924

MALES AND FEMALES

Table 1

BY MONTHS

	Total	Males	Females
January	455	183	282
February	418	167	251
March	472	205	267
April	454	208	246
May	439	184	255
June	445	191	254
July	401	173	228
August	468	268	200
September	381	180	201
October	436	185	251
November	435	180	255
December	486	206	280
Totals	5300	2262	3038

Table 2

BY BIRTHPLACE OF MOTHERS

	Total	Males	Females		Total	Males	Females
U. S. A	1344	505	839	Lithuania	6	2	4
Canada	123	.50	73	Albania	2	ĩ	1
Cape Breton	6	3	3	Austria	19	12	7
New Brunswick	104	28	76	Hungary	3	2	i
Nova Scotia	237	81	156	Turkey	ĭ	1	1
Prince Edward Isles	52	15	37	Roumania	î		1
Newfoundland	68	30	38	Greece	4	3	1
Quebec		1	1	Bohemia	9	0	
British West Indies	11	5	6	Servia	ĩ		1
Honduras	1	1	_	Portugal	6	1	5
Brazil	1	î		Italy	165	02	72
Bermuda	î	_	1	France	19	8	1.5
England	233	103	130		12	0	4
Wales and North Wales	9	5	4	Switzerland	3	2	1
Scotland	129	47	82		150	02	07
Ireland	1680	799	958	Germany Belgium	178	83	95
Sweden	84	39	45	11.11. 1	10	1	1
Norway		0	11		10	4	0
Denmark	20	5	2	Syria	7	4	3
F:-11	10	5	5	Hawaii	2	2	-
Latria	10	0		China	8	8	
D. L. J.	94	16	0	Unknown	. 400	188	112
Desit	210	160	1.10		000000000		
Armania	510	108	142	20			Sec.
Armenia		÷.		Totals	5300	2262	3038

Males and Females

Table 3

BY TIME OF DEATH

Hour, A. M.	Total	Per cent.	Males			
1	93	a cr court.		Per cent.	Females	Per cent.
	117		32		61	
2 3			51		66	
	97		40		57	
Total	307	11.8	123	11.2	184	12.3
4	90		28			
5 6	107		40		62	
6	120		49		67	
Total	317	12.2		10.4	71	
		12.2	117	10.6	200	13.3
7	100		34		66	
8	96		43		53	
9	107		58		49	
Total	303	11.7	135	12.3	168	11.2
10	110		54			
11	114				56	
12	100		51		63	
Total		10.5	36		64	
Total	324	12.5	141	12.8	183	12.2
Total A. M.	1,251		516		735	
Hour, P. M.						
	92				1921	
$\frac{1}{2}$			31		61	
2	116		47		69	
TAL	145		64		81	
Total	353	13.6	142	12.9	211	14.1
4	120		52		60	
4 5	137		67		68	
6	111				70	
Total		14.0	43		68	
Total	368	14.2	162	14.7	206	13.7
7	104		40		64	
8	101		44		57	
9	112		49		63	
Total	317	12.2	133	12.1	184	12.3
10	109		46		62	
11	107		46 57		63	
12			01		50	
Tetal	94	11.0	43	10.0	51	
Total	310	11.9	146	13.3	164	10.9
Total P. M.	1,348		583		765	
Known total	2,599	100.1	1,099	99.9	1,500	100.0
Unknown	2,701	100.1		11.9		100.0
CHKHOWH	2,101		1,163		1,538	
Grand total	5,300		2,262		3,038	

Males and Females

Table 4

BY AGE AT TIME OF DEATH

Age	Total	Years of Life	Males	Years of Life	Females	Years of Life
1	9	9	7	7	2	
2	6	12	4	8	2	2 4
3	6	18	3	9	3	9
4	5	20	3	12	2	
5	4	20	-	12	4	8
6	1	6			1	20
7	3	21	1	7	2	6
8	2	16	2	16		14
9	-	-	4	10	5	-
10	2	20	_		2	20
11	1	11	1	11		20
12	3	36	î	12	-	
13	3	39	2	26	2	24
14	2	28	2	28	1	13
15	4	60	2 2	30	-	-
16	1	16			2	30
17	î	17	1	17	1	16
18	3	54	3			
19	2	38		54	1	-
20	3	60	1	19	1	19
21	4	84	3	20	2	40
22	5	110		63	1	21
23	3	69	4	88	1	22
24	1	24	1	23	2	46
25	5	125	-		1	24
26	12		2	50	3	75
27	11	312	5	130	7	182
28	10	297	5	135	6	162
29	9	280	5	140	5	140
30	19	261	3	87	6	174
31	15	570	10	300	9	270
32	15	465	8	248	7	217
33	24	544	6	192	11	352
34		792	10	330	14	462
35	25	850	10	340	15	510
36	21	735	5	175	16	560
37	26	936	9	324	17	612
38	28	1036	11	407	17	629
	38	1444	14	532	24	912
39	47	1833	19	741	28	1092
40	50	2000	18	720	32	1280
41	39	1599	9	369	30	1230
42	73	3066	20	840	53	2226
43	76	3268	17	731	59	2537
44	68	2992	21	924	47	2068
45	87	3915	30	1350	57	2565
46	88	4048	34	1564	54	2484
47	108	5076	39	1833	69	3243
48	112	5376	53	2544	59	2832
49	91	4459	41	2009	50	2450
50	133	6650	52	2600	81	4050
51	116	5916	45	2295	71	3621
52	131	6812	59	3068	72	3744

Males and Females

		the r (by Age	at time of	Death) Con	tinued	
Age	Total	Years of Life	Males	Years of Life	Females	Years of Life
53	146	7738	67	3551	79	4187
54	145	7830	55	2970	90	4860
55	186	10230	82	4510	104	5720
56	158	8848	87	4872	71	3976
57	125	7125	57	3249	68	3876
58	165	9570	68	3944	97	5626
59	158	9322	70	4130	88	5192
60	211	12660	87	5220	124	7440
61	126	7685	46	2806	80	4880
62	147	9114	75	4650	72	4464
63	169	10647	77	4851	92	5796
64	145	9280	77	4928	68	4352
65	144	9360	80	5200	64	
66	121	7986	54	3564	67	4160 4422
67	120	8040	52	3484	68	4556
68	126	8568	59	4012	67	4556
69	115	7935	47	3243	68	
70	164	11480	74	5180	90	4692 6300
71	111	7881	55	3905	56	3976
72	112	8064	43	3096	69	4968
73	100	7300	48	3504	52	
74	99	7326	43	3182	56	$3796 \\ 4144$
75	99	7425	49	3675	50	3750
76	68	5168	35	2660	33	2508
77	56	4312	29	2233	27	2079
78	46	3588	15	1170	31	2418
79	55	4345	15	1185	40	3160
80	67	5360	23	1840	44	3520
81	35	2835	10	810	25	2025
82	32	2624	13	1066	19	1558
83	33	2739	11	913	22	1826
84	28	2352	10	840	18	1512
85	37	3145	13	1105	24	2040
86	25	2150	7	602	18	1548
87	19	1653	6	522	13	1131
88	11	968	3	264	8	704
89	7	623	2	178	5	445
90	10	900	5	450	5	450
91	4	364	-	-	4	364
92	3	276	1	92	2	184
93	3 - 3 - 2 - 2	279	î	93	2	186
94	2	188	î	94	ĩ	94
95	2	190	î	95	î	95
96	1	96	_	-	î	96
98	ĩ	98	1	98	-	-
99	2	198	-	-	2	198
Known total	5,292	312,310	2,256	133,463	3,036	178,847
Average age	.,	59.0	2,200	59.2	0,000	58.9
Unknown total	8	0,710	6	17.7.14	2	00.9
Total total	5,300		2,262		3,038	

Table 4 (By Age at Time of Death) Continued

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Males and Females

SUMMARY-Table 4

Years	Total	Per cent.	Males	Per cent.	Females	Per cent.
1-9	36	0.7	20	0.9	16	0.5
10-19	22	0.4	13	0.6	9	0.3
20-29	63	1.2	29	1.3	34	1.1
30-39	260	4.9	102	4.5	158	5.2
40-49	792	15.0	282	12.5	510	16.8
50-59	1463	27.6	642	28.5	821	27.0
60-69	1424	26.9	654	29.0	770	25.4
70-79	910	17.2	406	18.0	504	16.6
80-89	294	5.6	98	4.3	196	6.5
90 & over	28	0.5	10	0.4	18	0.6
Known total	5292	100.0	2256	100.0	3036	100.0
Unknown	8		6		2	20010
Total total	5,300		2,262		3,038	

Table 5

BY KNOWN DURATION OF DISEASE

Months	Total	Aggregate Months	Males	Aggregate Months	Females	Aggregate Months
1	60	60	25	25	35	35
2	92	184	55	110	37	74
3	145	435	77	231	68	204
4	128	512	67	268	61	244
5	85	425	44	220	41	205
6	420	2520	196	1176	224	1344
7	75	525	38	266	37	259
8	115	920	65	520	50	400
9	82	738	38	342	44	396
10	59	590	27	270	32	320
11	24	264	8	88	16	176
12	665	7980	302	3624	363	4356
13	20	260	4	52	16	208
14	36	504	18	252	18	252
15	33	495	11	165	22	330
16	22	352	10	160	12	192
17	11	187	4	68	7	1192
18	158	2844	66	1188	92	1656
19	6	114	1	19	5	95
20	17	340	3	60	14	280
21	10	210	6	126	4	84
22	8	176	3	66	5	110
23	3	69	1	23	2	46
24	443	10,632	142	3408	301	7224
25	5	125		0100	5	125
26	5	130	3	78	2	52
27	10	270	ĭ	27	9	243
28	2	56	_		2	56
29	1	29			1	29
30	41	1230	13	390	28	810
31	2	62	2	62		
32	8	256	ĩ	32	7	224
33	3	99	_		3	99
34	1	34		-	1	99 34

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Males and Fen	1a	les
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	Tab	ole 5	(By Known	Duration	of	Disease)	Continued	
Months	Total		Aggregate Months	Males		Aggregate	F	Aggregate
36	155		5580	47		Months 1692	Females	Months
37	2		74			1092	108 2	3888
38	1		38	-		-	ī	74 38
39	2		78	_			2	78
41	4		164	-			4	164
42	13		546	4		168	. 9	378
45	1		45	-			1	45
46	1		46	1		46	-	-
48 51	62		2976	17		816	45	2160
54	1		51	1		51	-	-
59	3		162	-			3	162
60	39		59 2340	14		0.40	1	59
66	1		2340	14		840	25	1500
72	20		1440	$\overline{7}$		504	13	66
84	10		840	í		84	9	936 756
96	12		1152	4		384	8 .	768
98	1		98	i		98	-	-
120	8		960	4		480	4	480
132	3		396			_	3	396
144	5		720	1		144	4	576
156	2		312	-		-	2	312
180	1		180	-		-	1	180
200	1		200			-	1	200
204	1		204	1		204	-	-
216	3		648	1		216	2	432
240 408	4		960 408	1		240	3	720 408
400	1		400					9040
Known total 3.	153		54,370	1,336		19,283	1,817	35,087
Average (months			17.2			14.4		19.3
Unknown total 2	,147			926			1,221	
Total total 5	,300			2,262			3,038	
Average years			1.4	1.1.1.1.1.1.1.1		1.2		1.6
				Table 6				
		1	BY TREATM	IENT BY	OPE	RATION	ī	
		Total	Per cent.	Male	08	Per cent	. Females	Per cent.
Yes		1,912	61.8	825	5	62.5	1,088	61.3
No		1,181	38.2	494	1	37.5	687	38.7
Known method		3,093	100.0	1,319)	100.0	1,775	100.0
Unknown		2,207		943	3		1,263	
Total	. 1	5,300		2,262	2		3,038	
				Table 7				
			BY AUTO	PSY DISP	OSI	TION		
		Total	Per cent.	Male		Per cent	. Females	Per cent.
Yes		294	13.8	157		17.9	137	10.9
No		1,837	86.2	721		82.1	1,116	89.1
Known method	. :	2,131	100.0	878		100.0	1,253	100.0
Unknown	. :	3,169		1,384			1,785	
Total	. :	5,300		2,262			3,038	

Males and Females

(Table 8 omitted)

Table 9

BY MARITAL CONDITION

	Females	Per cent.
Married	1,285	42.4
Single	622	20.5
Widowed	1,088	35.9
Divorced	37	1.2
Known total Unknown	3,032 6	100.0
Total total	3.038	

Table 10

BY ORGANS AND PARTS

Parts	Totals	Males	Females	Parts	Totals	Males	Females
Lips	22	21	1	Rectum	287	141	146
Tongue	80	74	6	Ovary			96
Mouth	7	6	1	Uterus		-	572
Throat	48	41	7	Vulva and vagina			27
Jaw	61	48	13	Others of this class			ĩi
Neck	101	64	37	Breast			492
Face	38	20	18	Skin		7	18
Eye	10	4	6	Larynx	63	54	9
Nose	7	4	3	Lungs and pleura		70	73
Ear	12	3	9	Pancreas	133	70	63
Head	1		1	Kidney		42	34
Tonsil	10	7	3	Prostate	141	141	
Cheek	6	5	1	Bladder		129	60
Hard palate	7	7	-	D	94	129	62
Chin	2		-	D	126		16
Pharynx	8	6	2	T	120	61	65
Oesophagus	184	147	37	D!.	15	15	
Stomach	1033	571	462	II	4	2	-
Liver and gall bladder	454	191	263		4	1	3
Mesentery and	1.71	171	200	Appendix General	2	20	2
peritoneum	49	20	29	General	64	30	48
Intestines	641	239	402	Totals	5,300	2,262	3,038

Males and Females

SUMMARY-Table 10

	Total	Per cent.	Males	Per cent.	Females	Per cent.
Cancer of buccal cavity	602	11.4	457	20.2	145	4.8
Cancer of stomach and liver	1,487	28.0	762	33.7	725	23.9
Cancer of mesentery, intestines						
and rectum	977	18.4	400	17.7	577	19.0
Cancer of female genital organs	706	13.3			706	23.2
Cancer of breast	492	9.3			492	16.2
Cancer of the skin	25	.5	7	.3	18	.6
Cancer of other organs or of						
organs not specified	1.011	19.1	636	28.1	375	12.3
Totals	5,300	100.0	2,262	100.0	3,038	100.0

Table 11

BY SINGLE YEARS OF LIFE AND AVERAGE AGE ACCORDING TO ORGANS AND PARTS

LIPS		1	1000		Total Year
	Males		Age	Number	of Life
		Total Years	52	4	208
Age	Number	of Life	53	2 2 3	106
50	1	50	54	2	108
51	2	102	55		165
54	1	54	56	6	336
56	2	112	57	1	57
60	1	60	58	2	116
61	1	61	59	23	177
62	2 3	124	60	3	180
63	3	189	61	1	61
70	1	70	62	2	124
73	1	73	63	2	63
74	î	74	64	2	128
75	î	75	65	9	585
78	î	78	66	í	66
80	î	80	67	1	67
88	î	88	68	1	68
00	1	00	69	1	69
Totals	21	1,290	70	1	140
Average age		61.4	70	2 2	140
Average age	e (years)	01.4	72	2	
	Females		73	1	72
67	1 cintuico	67		4	292
01	1	01	74	1	74
Totals	1	67	77	1	77
Average age	(voora)	67.0	80	1	80
Average age	(years)	01.0	82	1	82
TONGUE			83	1	83
	Males		89	1	89
39	1	39			-
40	î	40	Totals	75	4,505
42	3	126	Average age	e (years)	60.1
45	1	45			
47	2	94		Females	
48	2	48	46	1	46
	1	40 98		1	
49	2 4		47	1	47
50	4	200	60	1	60

Males and Females

Table 11 (By Single Years of Life and Average Age According to Organs and Parts) Continued

TONGUE-F	emales (Continu	ed) Total Years	Age	Number	Total Years of Life
Age	Number	of Life	77	1	77
62	1	62	78	î	78
63	î	63	81	1	81
80	î	80	01	1	01
00	1	00	Table	40	0.701
Totals		250	Totals	48	2,761
	6	358	Average ag	e (years)	57.5
Average age	e (years)	59.7		Females	
MOUTH			15	1	15
	Males		31	1	31
40	1	40	4.4	î	44
41	ĩ	41	48	î	48
48	î	48	49	1	49
51	î	51	53	1	53
67	î	67	64	1	
73	1	73	66	1	64
1.5	1	10		1	66
Totals	6	220	71	1	71
	6	320	75	1	75
Average age		53.3	80	1	80
	Females		83	1	83
85	1	85	84	1	84

Totals	1	85	Total	13	763
Average age	(vears)	85.0	Average age	(years)	58.7
JAW		0010		28	
JAN	11.1		THROAT		
12	Males	10		Males	
	1	12	34	. 1	34
13	1	13	46	2	92
35	1	35	47	1	47
36	1	36	48	1	48
39	1	39	49	2	98
48	1	48	50	1	50
49	2	98	51	2	102
50	1	50	52	1	52
51	2 2	102	53	î	53
52	2	104	54	î	54
53	1	53	55	1	55
55	5	275	57	2	114
56	1	56	58	4	
57	2	114	60	3	232
58	2	58		0	180
59	î	59	62	1	62
60	3	180	63	3	189
61	3	100	64	1	64
62	1	183	65	4	260
63	1	62	66	1	66
64	2 3	126	70	3	210
65	3	192	72	1	72
	2 1	130	74	1	74
68	1	68	81	1	81
69 70	1	69	84	1	84
70	2	140	85	1	85
72 75	1	72			
1.24	1	75	Totals	4.1	
76	1	76	Average age	41	2,458

Males and Females

		and rarts)			
THROAT (Co	ntinued)			Females	Total Year
	Females		Ave	Number	of Life
		Total Years	Age	1	30
Age	Number	of Life	30	1	32
43	1	43	32	1	33
54	1	54	33	1	40
55	1	55	40	1	
57	î	57	41	1	41
	1	65	42	1	42
65	1	77	44	1	44
77	1	96	49	1	49
96	1	90	52	2	104
			54	1	54
Totals	7	447	55	î	55
Average age	(years)	63.9		î	56
			56	2	116
NECK			58	4	180
	Males	12	60	3	
1	1	1	61	1	61
21	1	21	63	1	63
26	1	26	66	2	132
27	ĩ	27	67	1	67
30	î	30	68	1	68
	1	33	70	2	140
33	1	33	72	ī	72
38	1	40	. 73	î	73
40	1			1	75
42	1	42	75	1	76
44	1	44	76	1	79
45	4	180	79	1	
47	1	47	80	3	240
48	2	96	89	1	89
50	4	200	91	1	91
51	i	51	99	1	99
52	2	156			
	$^{3}_{2}$	106	Totals	37	2,301
53	1	54	Average a	ge (years)	62.2
54			Arciage a	Be (Jeans)	
55	4	220	FACE		
56	2 2 6	112	1 100	Males	
59	2	118	47	1	47
60		360	49	î	49
61	1	61		1	54
62	3	186	54	1	174
63	1	63	58	3	59
64	1	64	59	1	
65	î	65	61	1	61
	2	132	64	1	64
66	2 2 1	132	65	4	260
67	2	68	66	1	66
68		140	70	1	70
70	2	140	71	1	71
71		71	75	î	75
74	$\frac{2}{3}$	148	15	1	79
75	3	225	79	1	94
75 77	1	77	94	1	98
00	1	82	98	1	90
26.7					
82		and a second sec			3 0.03
82 Totals	64	3,518	Totals Average a	20	$1,321 \\ 66.1$

Table 11 (By Single Years of Life and Average Age According to Organs and Parts) Continued

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Males and Females

Table 11 (By Single Years of Life and Average Age According to Organs and Parts) Continued

FACE (Cont			EAR		
	Females	a second de la constant		Males	
1000	Number	Total Years of Life		Number	Total Years
Ago	Number		Ago	Number	of Life
46	1	46	62	1	62
48	1	48	68	1	68
51	1	51	88	1	88
68	2	136	100000000000000		
72	1	72	Totals	3	218
73	2	146	Average age	e (vears)	72.7
75	2 2 2 2	150			
79	2	158			
85	2	170		P	
86	1	86	1.000	Females	
	2	182	50	1	50
- 91	2		62	1	62
93	1	93	64	1	64
100			71	ĩ	71
Totals	18	1,338	$\frac{1}{73}$	î	73
Average ag	e (years).	74.3	77	1	77
				1	
EYES			80	2	160
	Males		86	1	86
4	1	4			
56	1	56	Totals	9	643
67	1	67	Average age	(years)	71.4
68	1	68			
Totals	4	195	HEAD		
Average age	e (vears)	48.8	manb	Females	
			90	remates	0.0
2	Females	0	80	1	80
3	1	3	T . 1		
6	1	6	Totals	1	80
50	1	50	Average age	(years)	80.0
57	1	57			
59	1	59			
77	1	77	TONSILS		
			10110100	Males	
Totals	6	252	20	marco	
Average age	e (vears)	42.0	39	1	39
			53	1	53
NOSE			56	2	112
	Males		58	1	58
27	1	27	65	1	65
33	1	33	68	1	68
60	1	60		1	
81	î	81	Totals	7	395
	1	01	Average age	(vears)	56.4
Totals	4	201	average age	(jears)	90.4
	*				
Average age		50.3		P 1	
	Females			Females	
80	1	80	59	1	59
83	1	83	60	1	60
92	1	92	84	1	84
Totals	3	255	Totals		
Avorage			Average	3	203
Average age (years)		85.0 I	Average age	(years)	67.7

Males and Females

		and Parts)	Continued		
CHEEK		1		× 1	Total Years
	Males	10000 10000 N	Age	Number	of Life
		Total Years	44	1	44
Age	Number	of Life	45	2 2 2 5	90
44	1	44	46	2	92
60	1	60	47	2	94
66	1	66	48	5	240
73	1	73	49	1	49
75	î	75	50	6	300
10			51	4	204
Totals	5	318	52	6	312
Average age		63.6	53	1	53
Average age	e (years)	0010	54	2	108
	Females		55	10	550
87	1	87	56	4	224
01					
Totals	1	87	57	2	114
Average age	(waara)	87.0	58	9	522
Average age	e (years)	01.0	59	5	295
HARD PAL	ATE		60	12	720
manto i ana	Males		61	5	305
47	1	47	62	8	496
50	1	50	63	6	378
	1	57	64	3	192
57	1	62	65	5	325
62	1	68	66	5	330
68	1		67	2	134
70	1	70	68	2	136
		074	69	1	69
Totals	6	354	70	2	140
Average ag	e (years)	59.0	71	5	355
DUIDVNV			72	2	144
PHARYNX	14.1		73	6	438
	Males	42	74	2	148
43	1	43	75	1	75
53	1	53		3	228
56	1	55	76	0	
64	1	64	77	1	77
73	1	73	80	1	80
77	1	77	81	2	162
			82	1	82
Totals	6	365	84	1	84
Average ag	e (vears)	61.0	85	1	85
			86	1	86
	Females	07			0.000
27	1	27	Totals	147	8,833
54	1	54	Average a	ge (years)	60.1
				Females	
Totals	2	81	0.7	remates	37
Average ag	e (years)	40.5	37	1	
			39	1	39
OESOPHAG	US	i	41	1	41
	Males		43	$\frac{2}{3}$	86
32	1	32	45	3	135
33	1	33	47	2	94
38	1	38	48	1	48
42	2	84	52	2	104
43	2	86	53	2	106
10	-				

Table 11 (By Single Years of Life and Average Age According to Organs and Parts) Continued

Males and Females

OESOPHAG	US—Females (Co	ntinued) Total Years	Ago	Number	Total Years of Life
Age	Number	of Life	62		
54	2	108		21	1,302
58	1		63	22	1,386
	1	58	64	26	1,664
59	2	118	65	20	1,300
61	1	61	66	7	462
62	1	62	67	17	1,139
63	2	126	68	16	1,088
64	1	64	69	14	966
66	2	132	70	16	1,120
68	2	136	71	10	710
69	3	207	72		
71	2	142	73	15	1,080
73	1	73		8	584
	1		74	10	740
76	1	76	75	5	375
88	1	88	76	10	760
			77	6	462
Totals	37	2,141	78	2	156
Average age	e (years)	57.9	79	1	79
amontion			80	9	720
STOMACH			81	í	81
	Males		82	1	
25	1	25	83	4	328
28	2	56		4	332
31	$\frac{2}{2}$	62	85	3	255
32	ĩ	32	86	2	172
33	1		87		87
	3	99	90	2	180
34	r	136	92	1	92
35	3	105	93	1	93
36	1	36			
37	4	148	Total	571	33,895
38	8	304		ge (years)	59.4
39	4	156	interage a	Be (years)	39.4
40	4	160		Females	
41	5	205	20	1	20
42	3	126	26	1	26
43	5	215	28	1	
44	6	264	29	1	28
45	7	315	30	2 2	58
46					60
47	6	276	32	2	64
48	14	658	33	3	99
	16	768	34	2	68
49	13	637	35	3	105
50	12	600	36	3	108
51	10	510	37	2	74
52 53	18	936	38	4	152
53	26	1,378	39	4	156
54	18	972	40	2	120
55	17	935	41	2	120
56	19	1.064	42	0	123
57	16	1.064	42	0	252
58		912	43	3	129
59	18	1,044	44	1	44
60	19	1,121	45	$ \begin{array}{c} 2 \\ 3 \\ 2 \\ 3 \\ 2 \\ 4 \\ 4 \\ 3 \\ 3 \\ 6 \\ 3 \\ 1 \\ 7 \\ 6 \end{array} $	315
	25 7	1,500	46	6	276
61		427	47	13	611

Males and Females

Table 11 (By Single	Years of	Life and Average	Age	According to Organs
	and	Parts) Continued		

STOMACH-	Females (Contin	nued)	Age	Number	Total Yea
Age	Number	Total Years of Life			of Life
48	8	384	33	1	33
49	1	. 49	37	2	74
50	11	550	41	1	41
51	10	510	42	5	210
52	10	520	43	1	43
53	10	530	44	1	44
54	9	486	45	3	135
55	13	715	46 47	4	184
56	6	336		2	94
57	12	684	48	3	144
58	19	1,102	49	6	294
59	11	649	50	. 5	250
60	22	1,320	51	2	102
61	13	793	52 53	4	208
62	13	805	55 55	4	212
63	13	882		4	220
64	14	896	56	7	392
65	9	585	57	8	456
66	11	726	58	7	406
67	10	670	59	4	236
68	10	748	60	13	780
69	16	1,104	61	5	305
70	10	1,330	62	7	434
70	19	710	63	6 7	378
72	13	936	64		448
73	13	1,022	65	6	390
74	13	962	66	3	198
74 75	9	675	67	4	268
76	9	684	68	6	408
70	2	231	69	2	138
	3 5	390	70	9	630
78 79	6	474	71	3	213
	10	800	72	6	432
80 81	7	567	73	1	73
	4	328	74	5	370
82	2	166	75	6	450
83	1	84	76 77	4 2	304
84	4	340		2	154
85 86	9	258	78	1	78
87	0	174	80 81	3	240
	2	180		2	162
90	3 2 2 1	92	83	3 2 2 3	165
92	1	95	84	3	252
95	1	95	85	1	85
Totals	463	28,431	85	1	86
		61.4	87	1	87
Average age	(years)	01.4	89 95	1	89 95
IVER			Totals	190	11,582
	Males		Average age		61.0
1		2	Unknown	l	01.0
$\frac{1}{29}$	2	29	CHKHOWH	1	
24	2	£1.7			

Males and Females

LIVER (Con	ntinued)		Age	Number	Total Years of Life
	Females		83	2	166
	remates	Total Years	85	1	85
Age	Number	of Life	86	î	86
	1	5	88	î	88
5	1	7	89	1	89
7	1		09	1	09
26	1	26	Table	961	15 004
27	2	54	Totals	261	15,824
32	1	32	Average age		60.6
34	1	34	Unknown	2	
35	1	35			
36	1	36	Total total	263	
37	1	37	DEDIMONIPUL		
38	2	76	PERITONEUM		
39	ĩ	39		Males	
40	2	80	22	1	22
42	3	126	26	1	26
43	4	172	28	1	28
44	3	132	30	3	90
			36	1	36
45	23	90	40	ĩ	40
46	3	138	46	î	46
47	2 6	94	48	î	48
48		288	49	î	49
49	57	245	51	2	
50	7	350	53	1 .	102
51	5	255	63	1	53
52	7	364		1	63
53	6	318	67	2	134
54	8	432	68	1	68
55	6	330	69	1	69
56	9	504	73	1	73
57	5	285			
58	10	580	Totals	20	947
59	6	354	Average age (years)	47.4
60	11	660			
61	11	671		Females	
62	8	496	4	1	4
63	10		5	1	5
64		630	24	1	24
	7	448	26	1	26
65	9	585	42	1	42
66	9	594	44	1	44
67	6	402	48	2	96
68	6	408	50	1	50
69	8	552	52	î	52
70	8	560	52 53	î	53
71	4	284	54	2	108
72	8	576	55	ĩ	100
73	6	438	56	1	55
74	4	296	58	1	56
75	4	300	59	1	58
74 75 77	4	308	60	$\frac{2}{2}$	118
78	6	468		2	120
79	6	474	62	1	62
80	6	480	65	1	65
81	2	162	66	$\frac{2}{1}$	132
10.00	4	102	69	1	69

Males and Females

PERITONE	UM—Females (C	ontinued)	Sommer		Total Years
		Total Years	Age	Number	of Life
Age	Number	of Life	73	6	438
75	1	75	74	6	444
80	2	160	75	7	525
82	ĩ	82	76	4	304
		02	77	4	308
Totals	29	1,556	78	4	312
Average ag		53.7	79	6	474
	se (jears)	55.1	80	2	160
INTESTINE	S		83	ĩ	83
	Males		84	î	84
17	1	17	85	2	170
18	1	18	87	ĩ	87
22	1	22	01	1	01
25	ĩ	25	Totals	238	14,270
26	î	26	Average age (60.0
28	î	28	Unknown	1	00.0
29	î	29	Ulikhown	1	
31	2	62	Total total	239	
33	ĩ	33	i otar totar	239	
36	i	36		Females	
37	3	111	4	1	4
38	3	111	5	1	4
40	3	120	12	2	5
41	. 4	164	12	2	24
	. 4			1	15
42	$2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 4$	84	28	1	28
43	2	86	29	1	29
44	2	88	30	1	30
45	2	90	31	1	31
47		188	33	1	33
48	7	336	34	1	34
49	3	147	35	1	35
50	6	300	36	1	36
51	3 7	153	37	1	37
52	7	364	38	1	38
53	3	159	39	3	117
54	3	162	40	4	160
55	10	550	41	4	164
56	9	504	42	4	168
57	8 7 7 8	456	43	10	430
58	7	406	44	4 8	176
59	7	413	45	8	360
60	8	480	46	4	184
61	6	366	47	12 5 6	564
62	4	248	48	5	240
63	11	693	49	6	294
64	8	512	50	10	500
65	$\begin{array}{c}11\\8\\9\\4\end{array}$	585	51	10 7 8 5 7 19	357
66	4	264	52	8	416
67	4	268	53	5	265
68	3	204	54	7	378
69	7	483	55	19	1,045
70	3 7 9 7 5	630	56	11	616
71	7	497	57	9	513
72	5	360	58	11	638
12	0	000	00		000

Males and Females

Table 11 (By Single	Years of	Life and	Average	Age	According to Organs
		and	Parts) Co	ntinued		

INTESTINES-	Females (Con	tinued)	1 8		Total Years
		Total Years	Age	Number	of Life
Age	Number	of Life	53	4	212
59	6	354	54	3	162
60	18	1,080	55	6	330
61	7	427	56	7	392
62	6	372	57	8	456
63	13	819	58	$\frac{2}{3}$	116
64	6	384	59	3	177
65	11	715	60	4	240
66	14	924	61	5	305
67	11	737	62	3	186
68	12	816	63	5	315
69	7	483	64	5	320
70	17	1,190	65		390
71	10	710	66	6 5 3	330
72	14	1,008		0	201
73	4	292	67	5	
74		888	68	5	340
	12		69	5	345
75	12	900	70	8	560
76	4	304	71	3	213
77	6	462	72	3 2 4 2 3	216
78	7	546	73	2	146
79	4	316	74	4	296
80	6	480	75	2	150
81	6	486	76	3	228
82	4	328	79	1	79
83	3 5 7	249	80	2	160
84	5	420	84	ĩ	84
85	7	595	01	-	01
88	2	176	Totals	141	8,435
90	ī	90	Average ag		59.8
Totals	401	24,515		Females	
Average age (years)	61.1	32	1	32
Unknown	1		34	1	34
			35	2	70
Total total	402		36	3 2 2	108
DECENTRA			39	2	78
RECTUM	12232		40	2	80
	Males		41	2	82
27	1	27	42	$2 \\ 2 \\ 1 \\ 2 \\ 4$	84
31	1	27 31	42 43	ī	43
33	1	33	44	2	88
34	î	34	45	4	180
37	î	37	47	1	47
38	î	38	48	2	144
39		117	49	3	144
40	$\frac{3}{1}$	40	49	3	147
40	4	176	51	$ \begin{array}{c} 1 \\ 3 \\ 3 \\ 6 \\ 3 \end{array} $	306
46	1	176	52 53	3	156
	1	46	53	6	318
47	1	47	54	4	216
49	5	245	55	5	216 275 280
50	2	100	56 57	5	280
51	$ \begin{array}{c} 1 \\ 5 \\ 2 \\ 5 \\ 5 \\ 5 \end{array} $	255	57	4 5 5 4 3	228
52	5	260	58	3	174

Males and Females

101200000000000000000000000000000000000			Continued		
RECTUM-	Females (Continu	ed) Total Years	Age	Number	Total Years of Life
Age	Number	of Life	54	4	
59	3	177	55		216
60	4	240	56	6	330
61	4	240		1	56
62	4	248	57	2	114
63	*		58	3	174
	-	441	59	5	295
64	4	256	60	2	120
65	3	195	61	4	244
66	1	66	62	2 3	124
67	4	268	63	3	189
68	4	272	64	2	128
69	6	414	65	1	65
70	7	490	67		335
71	1	71	68	52	136
72	2	144	70	ī	70
73	3	219	72	2	144
74		222	74	$2 \\ 2 \\ 2 \\ 2$	148
75	2	150	75	2	150
76	2	152	76	1	
78	3 2 2 5	390	78	1	76
79	1	79	80	1	78
81	3	243	81	1	80
83		166	82	1	81
86	2 3	258		1	82
87	2		84	2	168
93	2	174	86	1	86
93	1	93	87	1	87
Totals	146	8,842	Totals		F 460
Average ag		60.6		96	5,469
Average ag	e (years)	00.0	Average age	e (years)	57.0
OV ARY			UTERUS		
	Females			Females	
25	1	25	21	1	21
26	1	26	25	ĩ	25
30	1	30	26	î	26
32	1	32	27	2	54
33	i	33	29	3	87
34	î	34	30	3	
35	î	35	31		90
38	1	38	32	2 2 4	62
39	2	78	22	4	64
40	2		33	4	132
	1	40	34	6 1 5 7 9 7	204 35
41	1	41	35	1	35
42	1	42	36	5	180
44	1	44	37	7	259
45	1	45	38	9	342
46	$2 \\ 2 \\ 2 \\ 4$	92	39		273
47	2	94	40	10	400
48	2	96	41	10	410
49		196	42	14	588
50	3	150	43	21	903
51	$ \begin{array}{c} 3 \\ 2 \\ 4 \end{array} $	102	44	16	704
52	4	208	45	14	630
53	4	212	46	22	1,012

Males and Females

UTERUS (Co	ontinued)		1		Total Years
		Total Years	Age	Number	of Life
Age	Number	of Life	57	1	57
47	10	470	58	1	58
48	15	720	59	1	59
49	13	637	61	I	61
50	19	950	62	2	124
51	22	1,122	63	1	63
52	13	676	64	1	64
53	18	954	67	1	67
54	14	756	68	1	68
55	23	1,255	70	1	70
56	8	448	71	1	71
57	14	798	72	2	144
58	18	1,044	73	ī	73
59	15	885	77	î	77
60	19	1.140	79	î	79
61	19	1,159	81	î	81
62	15	930	84	1	84
63	17	1.071	89	î	89
64	14	896	- 05	1	09
65	10	650	Totals	27	1,695
65	10	726			
67	13		Average age	(years)	62.8
68	13	871	OTHERS OF	THIS CLASS	
69		884	o mano or		
70	6 =	414	3	Females	
	10	700		1	3
71	4	284	31	1	31
72	6	432	35	1	35
73 74 75	6	438	48	2	96
74	8	592	50	1	50
15	5	375	57	1	57
76	6	456	58	1	58
77	3	231	62	1	62
78	2	156	64	1	64
79	6	474	70	1	70
80	3	240			
81	2	162	Totals	11	526
82	1	82	Average age	(years)	47.8
83	2	166	BREAST		
84	1	84	CONCLUST.	Females	
85	2 2	170	22	1 cmates	0.0
86	2	172	26	1	$\frac{22}{26}$
87	1	87	28	1	
89	1	89	31	2	56
99	1	99	32	2	62
1000			33	2	64
Totals	572	31.456	34	3	99
Average age	(years)	55.0	35	2	68
VULVA AND				3	105
and map	Females		36	2 2 3 2 3 2 3 2	72
35	1 chates	95	37		37
39	1	35	38	3 7 3	114
42	1	39	39	7	273
46	2	84	40	3	120
51	2	46	41	4	164
	4	102	42	14	588

Males and Females

Table 11 (By Single Years of Life and Average Age According to Organs and Parts) Continued

BREAST-Fen	ales (Continue	d)	SKIN		
		Total Years	entri	Males	
Age	Number	of Life			Total Years
43	10	430	Age	Number	of Life
44	10	440	. 14	1	14
45	15	675	51	1	51
46	6	276	53	1	53
47	12	564	59	1	59
48	8	384	74	1	74
49	13	637	75	1	75
50	14	700	85	ĩ	85
51	10	510			
52	11	572	Totals	7	411
53	11	583	Average ag	e (vears)	58.7
54	19	1,026		() () cars/	50.1
55	16	880		Females	
56	18	1,008	2	1	2
57	11	627	23	î	23
58	19	1,102	33	1	33
59	18	1,062	38	1	38
60	21	1,260	55	1	
61	11	671		1	55
62	12	744	60	2	120
63			61	1	61
	14	882	65	1	65
64	8	512	69	1	69
65	10	650	71	2	142
66	7	462	74	1	74
67	10	670	80	1	80
68	5	340	83	1	83
69	9	621	87	1	87
70	14	980	88	1	88
71	15	1,065	90	1	90
72	10	720			
73	5	365	Totals	18	1,110
74	7	518	Average ag	e (years)	61.7
75	9	675			
76	1	76	LARYNX	1.000	
77	6	462		Males	
78	4	312	33	1	33
79	7	553	44	ĩ	44
80	3	240	47	î	47
82	6	492	48	2	96
83	6	498	49	2 2	98
84		168	50	ĩ	50
85	2 5	425	51	î	51
86	4	344	52	3	156
87		261	53	1	53
88	3 3	264	54		108
89	3		55	23	165
	1	89			
91 94	1	91	56	4	224
94	1	94	57	1	57
m . 1		00.050	58	$\frac{4}{2}$	232
Totals	491	28,850	59	2	118
Average age (years)	58.8	60		180
Unknown	1		61	4	244
			62	1	62
Total total	492	1	63	1	63

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Males and Females

$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	LADVAV 1	Islas (Continued)	1			Total Years
Ase Number of Life 51 2 102 64 3 192 52 2 104 66 3 198 53 4 212 67 1 67 55 3 165 77 1 77 58 1 57 77 1 77 58 1 57 78 1 77 58 1 62 86 1 86 60 2 102 87 1 87 62 1 62 77 1 87 62 1 62 78 1 87 62 1 62 80 1 88 3 204 64 1 66 Average age (years) 59.6 66 1 66 66 1 66 32 1 32 70 2 140 74 55 74 1 74 56 1 57 1	LANINA-M	tates (Continuea)	Total Years	Age		of Life
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Age	Number	of Life	51	2	. 102
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	64	3	192		2	104
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					4	212
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		ĭ			1	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		7			3	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		1			3	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		1			1	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		2			1	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		1			1	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		1			2	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		1			2	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	87	1	87		1	
Average age (years) 59.6 66 1 66 1 66 $Females$ 69 1 69 1 69 1 69 32 1 32 70 2 140 54 1 56 71 1 71 56 1 56 72 1 71 57 1 57 74 1 74 58 1 58 76 1 76 59 1 59 79 1 79 60 1 60 70 3.393 75 1 73 Totals 70 3.393 75 1 75 76 1 76 $Average age (years)$ 58.2 2 1 2 $Average age (years)$ 58.2 2 1 2 $Average age (years)$ 58.2 2 1 20 13 1 15 27 1 20 7					1	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Totals	54	3,219	65	1	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		e (vears)		66	1	66
Females 69 1 69 32 1 32 70 2 140 54 1 54 71 1 71 56 1 56 72 1 72 57 1 57 74 1 74 58 1 58 76 1 76 59 1 59 79 1 79 60 1 60 $$ $$ 73 1 73 Totals 70 3.393 75 1 75 Average age (years) 48.5 $Totals$ 9 524 <i>Females</i> $$ $Average age (years)$ 58.2 2 1 2 $LUNGS$ 13 1 10 1 10 7 1 7 25 1 25 1 25 8 1 8				68	3	204
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		Females			1	69
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	39	1	39		2	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		1			ĩ	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		1			1	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		1			1	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		1			1	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		1			1	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		1		79	1	19
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		1				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	73	1				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	75	1	75	Average age	(years)	48.5
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	2227 22				10 State 12 State	
LUNGS 100 1 100 Males 16 1 16 2 1 2 200 1 200 7 1 7 25 1 25 8 1 8 26 1 26 15 1 15 27 1 27 18 1 18 28 1 28 20 1 20 344 1 34 20 1 22 35 1 35 23 1 23 36 1 36 27 1 27 37 1 37 30 1 30 40 4 160 32 2 64 41 1 41 34 2 68 433 3 129 36 1 36 44 2 88 38 1 39 46		-			Females	
LUNGS 10 1 10 Males 13 1 13 2 1 2 20 1 20 7 1 7 25 1 25 8 1 8 26 1 26 15 1 15 27 1 27 18 1 18 28 1 28 20 1 20 34 1 34 20 1 20 34 1 34 20 1 20 34 1 34 20 1 23 36 1 35 23 1 23 36 1 36 27 1 27 37 1 37 30 1 30 40 4 160 32 2 64 41 1 41 34 2 68 43 3 129 36 1 36 44 2	Average age	e (years)	58.2	2	1	2
Males 16 1 16 2 1 2 20 1 20 7 1 7 25 1 25 8 1 8 26 1 26 15 1 15 27 1 27 18 1 18 28 1 28 20 1 20 34 1 34 22 1 22 35 1 35 23 1 23 36 1 36 27 1 27 37 1 37 30 1 30 40 4 160 32 2 64 41 1 41 34 2 68 43 3 129 36 1 36 44 2 88 38 1 39 46 3 138 40 <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>10</td>					1	10
Males 16 1 16 2 1 2 20 1 20 7 1 7 25 1 25 8 1 8 26 1 26 15 1 15 27 1 27 18 1 18 28 1 28 20 1 20 34 1 34 22 1 22 35 1 35 23 1 23 36 1 36 27 1 27 37 1 37 30 1 30 40 4 160 32 2 64 41 1 41 34 2 68 43 3 129 36 1 36 44 2 88 38 1 39 46 3 138 40 <td>LUNGS</td> <td></td> <td></td> <td></td> <td>1</td> <td>13</td>	LUNGS				1	13
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		Males			ĩ	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2	1	2		î	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	7	î	7		î	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		1	0		1	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		1			1	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		1			1	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		1			1	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		1			1	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		1			1	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	23	1	23	30	1	36
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	21	1	27	37	1	37
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	30	1	30	40		160
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	32	2		41	1	41
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	34	2		43	3	129
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	36	1	36	44	2	88
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	38	1		45	1	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	39	1	39	46	3	138
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	40	1		47	3	141
	42	2		49	1	49
	43	1		50	î	
	45	2		59	2	156
	46	5		52	0	130
	47	1	47	55	4	212
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	49	-	100	54	2	108
1 50 56 1 56			192	55	4	220
	30	1	50	50	1	56

Males and Females

Table 11 (By Single	Years of Life and Average A	Age According to Organs
	and Parts) Continued	e e e e e e e e e e e e e e e e e e e

LUNGS-Fer	nales (Continued	0 1			Total Year
		Total Years	Age	Number	of Life
Age	Number	of Life	67	1	67
57	1	57	68	1	68
58	1	58	69	2	138
59	$\frac{2}{2}$	118	71	3	213
60	2	120	73	1	73
61	2	122	75	1	75
62	ī	62	78	1	
63	î	63	82	1	78
64	2	128	84	1	82
65	2 2	130	0.4	1	. 84
66	ĩ	66	T . 1		0.000
68	1	68	Totals	69	3,988
69	1	69	Average age	(years)	57.8
71	1		Unknown	1	
74	2	142			
	1	74	Total total	70	
76	2	152			
78	1	78			
79	1	79		Females	
82	1	82		remaies	
83 -	1	83	1	1	1
90	1	90	35	1	35
			37	2	74
Totals	73	3,743	38	1	38
Average age	e (years)	51.3	41	1	41
0.0			42	3	126
			47	$\frac{2}{2}$	94
PANCREAS			48	2	96
	Males		50	4	200
1	1	, 1	51	1	51
32	1	1	52	2	104
	1	32	54	4	216
34	1	34	55	2	110
36	1	36	56	2 2	112
37	1	37	57	ĩ	57
38	1	38	59	Â	236
42	1	42	60	4	240
43	1	43	61	9	122
45	1	45	62	1	62
47	1	47	63	1	
48	2	96	05	1	63
50	2	100	64	3	192
52	$2 \\ 2 \\ 2 \\ 2$	104	65	1	65
53	1	53	67	1	67
54	3	162	68	1	68
55	3 5 5	162 275	69	3	207
56	5	280	70	4	280
57	1	57	72	$\frac{2}{2}$	144
58	4	232	73	2	146
60	3	100	74	2	148
	3	180	76	1	76
61	1	61	80	1	80
62	4	248	87	1	87
63	2	126			
64		256	Totals	63	3,638
65	3 5	195			
66	5	330	Average age (vears)	57.7

Males and Females

KIDNEYS	Males		Age	Number	Total Years of Life
		Total Years	70	2	140
Age	Number	of Life	72	3	216
1	2	2	76	1	76
2	2 2 3	4	77	1	77
3	3	9	85	1	85
5	1	5			
39	1	39	Totals	34	1,993
45	4	180	Average age	(years)	58.6
46	1	46			
48	2	96	BLADDER		
51	1	51		Males	
53	2	105	36	1	36
54	1	54	39	1	39
55	1	55	40	1	40
58	1	58	42	1	42
59	2	118	43	1	43
60	4	240	44	1	44
61	3	183	45	1	45
62	2	124	-46	1	46
64	1	64	47	1	47
65	1	65	48	2	96
68	1	68	49	2 2 2 4	98
69 70	1	69 70	50	2	100
70 71	1	70	51	2	102
76	2	71	52	4	208
10	2	152	53	1	53
Totals	41	1.929	54	5	270
Average age		47.0	55	4	220
Unknown	(years)	41.0	56	7	392
Chknown	1		57	5	285
Total total	40		58	1	58
Total total	42		59 60	5	295
	Females		61	4	60
1	1	1	62	5	244 310
42	2	84	63	4	252
43	$\frac{2}{2}$	86	64	-	128
46	ĩ	46	65	2 5	325
47	î	47	66		520
49	2	98	68	8 4	528 272
50	ĩ	50	69	3	207
51	î	51	70	3	210
53	1	53	71	6	210 426
55	1	55	$\tilde{72}$	3	216
56	1	56	73	3 5	365
58	1	58	74	ĩ	216 365 74
59	1	59	75	5	375
60	2	120	76	53	228
62	1	62	77	1	228 77
65	1	65	78	1	78
66	1	66	79		158
67	1	67	80	$\frac{2}{2}$	160
68	1	68	81	1	81
69	3	207	82	3	246

Males and Females

BLADDER-	Males (Continued	d)	1		Total Years
		Total Years	Age	Number	of Life
Ago	Number	of Life	51	1	51
83	2	166	59	1	59
85	2	170	62	1	62
86	1	86	87	1	87
87	1	87	01	1	01
90	2	180	Totals	0	407
		100		8	. 427
Totals	129	8,268	Average age	e (years)	53.4
Average ag		64.1		Females	
	(jears)	04.1	20	remates	
	Females		30	1	30
3	1	3	43	. 1	43
37	î	37	45	1	45
40	1	40	47	2 .	94
43	1		48	1	48
44	1	43	52	1	52
	1	44	53	2	106
45	1	45	54	ī	54
50	1	50	59	î	59
51	1	51	60	2	120
52	3	156	71	1	
53	1	53	73	1	71
54	4	216		1	73
55	2	110	84	1	84
56	2 3	168			
57	3	171	Totals	16	879
58	1	58	Average age	(years)	54.9
59	2				
60	4	118	PROSTATE		
		240		Males	
61	2	122	44	1	44
63	4	252	47	1	47
65	1	65	48	1	48
66	1	66		1	
68	3	204	50	2	100
69	3	207	51	1	51
70	1	70	52	1	52
72	3	216	53	1	53
73	1	73	55	2	110
74	2	148	56	3	168
75	ĩ	75	57	1	57
76	2	152	58	2	116
79	2 1	79	59	2 2 4	118
80		80	60	4	240
			61	i	61
81	2	162	62	ŝ	310
84	2	168	63	0	567
86	1	86	64	5	320
2000			65	0	320
Totals	62	3,828	65	3	195
Average age	e (years)	61.7	66	5 9 5 3 3 10 5	198
			67	10	670
BRAIN			68	5	340
	Males		69	$ \begin{array}{c} 4\\ 12\\ 8 \end{array} $	276
37	1	37	70	12	840
39	1	39	71	8	568
43	1	43	72	4	288
49	î	49	73	6	438
1	1				100

Males and Females

Table 11 (By Single Years of Life and Average Age According to Organs and Parts) Continued

PROSTATE (C	ontinued)	1		002000020000	Total Years
		Total Years	Age	Number	of Life
Ago	Number	of Life	68	3	204
74	8	592	69	1	69
75	8	600	70	1	70
76	3	228	71	2	142
77	8	616	73	2	146
20				2	
78	3	234	75	4	300
79	3	237	84	1	84
80	2	160			
81	1	81	Totals	60	3,136
82	2	164	Average age		52.3
83	1	83	Unknown	1	02.0
84	1		CHKHOWH	1	
	1	84	a 1 1		
85	1	85	Total totals	61	
86	1	86		Females	
88	1	88	5	1 cmutes	5
90	1	90	5 7	1	5 7
		20		1	
Totals	1.41	0 202	19	1	19
	141	9,703	23	1	23
Average age (y	years)	68.8	36	1	35
BONES			40	î	40
DUNES	11.1		41	0	82
	Males			2 2 3	
8	1	8	46	2	92
11	1	11	47		141
14	1	14	48	1	48
15	î	15	50	5	250
18	1	18	51	2	102
	1		52	ī	52
21	1	21			
22	1	22	53	6	318
26	1	26	54	4	216
27	1	27	55	2	110
29	1	29	58	1	58
30	1	30	59		118
34	1		60	2 2	120
	1	34		2	
39	2	78	62	1	62
40	1	40	63	2	126
43	1	43	64	1	64
44	1	44	65	1	65
45	i	45	66	3	198
46	-		67	3	201
	$\frac{2}{3}$	92		0	
47	3	141	68	3	204
51	1	51	69	1	69
53	1	53	70	2	140
54	1	54	71	1	71
55	1	55	72	1	72
56	2		73	î	73
57	1	112		1	76
	1	57	76	1	76
58	$\frac{3}{2}$	174	79	1	79
59	2	118	80	1	80
60	1	60	81	1	81
62	1	62	86	1	86
63	2	126	87	î	87
64	0	120			01
	4	128			
66	2 2 2 3	132	Totals	65	3,671
67	3	201	Average age (ye	ears)	56.5

47

Males and Females

		and rans)	continucu		
TESTES			APPENDIX		
	Males		ALL LAUDIA	Females	
	mates			remates	Total Years
Age	Number	Total Years of Life	Age	Number	of Life
	Tamber		54	1	54
2	1	2	79	î	79
4	1	4	12	1	12
28	1	28	Totals	0	133
30	1	30		- () ²	
31	2 2	62	Average age	e (years)	65.5
40		80	GENERAL		
47	2	94	GENERAL	14.1	
56	1	56		Males	
62	1	62	1	1	1
64	1	64	13	1	13
67	1	67	19	1	19
69	ĩ	69	21	1	21
		0,	26	1	26
		400 - 0 - 0	30	1	30
Totals	15	618	33	î	33
Average age	e (years)	41.2	43	î	43
			46	2	92
			47	ĩ	47
PENIS			48	. 3	144
I LINIS			50	1	50
	Males		51	1	51
31	1	31	53	1	53
44	1	44	55	1	
56	1	56	59	1	55
57	1	57		1	59
61	1	61	60	2	120
62	î	62	61	1	61
63	î	63	62	2	124
75	î	75	63	3	189
77	1	77	66	$2 \\ 3 \\ 2 \\ 2$	132
	1		69	2	138
			70	1	70
Totals	9	526	71	1	71
Average age	(years)	58 4	72	1	72
			75	1	75
			76	1	76
HEART					
	Males		Totals	36	1,865
			Average age	e (years)	51.8
62	1	62		E 1	
				Females	
Totals	1	62	38	2	76
Average age	(vears)	62.0	44	4	176
e e		12000000	46	2	92
			47	3	141
	Females		48	1	48
59	1	59	50	1	50
61	1	61	51	1	51
	1		52	1	52
84	I	84	53	1	53
	-		54	1	54
Totals	3	204	55	1	55
Average age		68.0	56	3	168
			1.000		

Males and Females

Table 11 (By Single Years of Life and Average Age According to Organs and Parts) Continued

GENERAL-	-Females (Contin	Total Years	Age	Number	Total Year of Life
Age	Number	of Life	70	1	70
57	1	57	72	1	72
58	3	174	73	2	146
59	3	177	75	1	75
60	1	60	76	1	76
62	1	62	79	2	158
63	1	63	82	1	82
64	2	128	83	1	83
65	2	130			
66	1	65	Totals	47	2.762
67	1	67	Average age	e (years)	58.8

Table 12

BY SURGICAL OPERATION, ACCORDING TO ORGANS AND PARTS

		Male	s		Females	
Parts	Yes	No	Unknown	Yes	No	Unknown
Lips	8	3	10	1	-	-
Tongue	18	14	38	1	1	2
Mouth	2		4			1
Jaw	11	20	16	3	3	7
Throat	3	10	27	-	2	7
Neck	27	13	24	7	17	12
Face	1	5	12	i	5	12
Eyes	1	1	2	ĩ	ĩ	4
Nose	3		1		ĩ	2
Ear	2		1	3		6
Tonsil	1	1	4	1	1	1
Cheek	1		4			ĩ
Hard palate		2	4	-		_
Chin			-	-	_	_
Pharynx		2	4	1		1
Oesophagus	52	36	55	8	11	17
Stomach	189	141	224	101	128	230
Liver and gall bladder	48	48	88	87	55	117
Mesentery and peritoneum	11	4	3	14	8	7
Intestines	106	46	81	151	96	151
Rectum and anus	75	20	43	60	30	49
Ovary and fallobian tubes				63	8	23
Uterus				190	137	238
Vulva and vagina				10	7	10
Others of this class				5	i	5
Breast	_			218	87	179
Skin	3	2	2	5	5	8
Larynx	17	5	29	2	1	5
Lungs and pleura	5	25	39	25	17	29
Pancreas	30	17	23	23	16	22
Kidneys	21	9	12	16	7	12
Prostate	56	28	56	10		14
Bladder	66	16	46	29	12	21
Brain	6	1	1	6	1-	10
Bones	18	13	28	21	16	27
		1252			10	6

Males and Females

Table 12 (By Surgical Operation, According to Organs and Parts) Continued

		Male.	s		Females	
Parts	Yes	No	Unknown	Yes	No	Unknown
Testes	7	2	6	-	_	
Penis	3	3	2	_		
Heart			1	-	1	2
Appendix	-	-	_	1	_	ī
General	12	7	17	19	14	. 13
Totals	803	494	907	1,073	686	1,232

Table 13

BY MARITAL CONDITION (FEMALES), ACCORDING TO ORGANS AND PARTS

Parts	Married	Single	Unknown	Parts	Married	Single	Unknown
Lips	-	1		Rectum and anus	123	23	-
Tongue	2	4	—	Ovary	68	27	1
Mouth	1	-	-	Uterus		72	_
Jaw	10	3		Vulva and vagina	19	8	-
Throat	6	1	-	Others of this class	9	2	
Neck	28	9		Breast	364	127	1
Face	14	4	-	Skin	16	2	
Eyes	3	3	-	Larynx	8	1	_
Nose	2	1	-	Lung	52	21	_
Ear	7	2	-	Pancreas	56	7	-
Head	1		-	Kidneys	27	7	_
Tonsil	2	1	-	Bladder	47	15	_
Cheek	-	1	-	Brain	14	2	-
Hard palate	-	-		Bones	47	18	_
Chin	-	-	-	Heart	3	_	-
Pharynx	1	1	-	Appendix	1	1	-
Oesophagus	32	5	-	General	37	11	_
Stomach	365	95	2	-			
Liver and gall bladder	212	50	1	Totals	2.410	622	6
Mesentery and				Total per cent		20.5	
peritoneum	19	9	1	For Per continuing	1.7.0	2010	
Intestines	314	88		Total number of females	-3,038.		

Table 14

BY DURATION OF DISEASE, ACCORDING TO ORGANS AND PARTS

LIPS				Females	
Duration	Males		Duration (MONTHS)	Number	Aggregate
(MONTHS)	Number	Aggregate	12	1	12
3	1	3			
4	1	4	Totals	1	12
11	1	11	Average (m	onths)	12.0
12	4	48	TONOUT		
14	1	14	TONGUE		
18	3	54		Males	
24	3	72	2	2	4
30	1	30	3	1	3
			4	2	8
Totals	15	236	6	5	30
Average (mor		15.7	7	3	21
Unknown	6		8	2	16
			9	3	27
Total total	21		10	1	10

Males and Females

			ording to Organs	and Parts) Co	nunued
TONGUE-Mai Duration			Duration (MONTHS)	Number	Aggregate
(MONTHS)	Number	Aggregate	13	1	13
12	13	156	18	3	54
14	1	14	24	4	96
15	î	15	30	1	30
17	1	17	48	î	48
18	3	54	51	1	51
	0		51	1	51
24	0	144	T 1	2.2	176
31	1	31	Totals	32	476
36	2	72	Average (mo)		14.9
48	1	48	Unknown	16	
72	1	72			
			Total total	48	
Totals	49	742		Females	
Average (mor		15.1	6		10
Unknown	25	10.1	6	3	18
UIKHOWH	20		8	1	8
T			12	1	12
Total total	74		24	1	24
	Females		Totals	6	62
7	1	7	Average (mor		10.3
8	1	8		7	10.5
15	1	15	Unknown	1	
24	ĩ	24			
			Total total	13	
Totals	4	54	THROAT		
Average (mor	nths)	13.5		Males	
Unknown	2		1	1	1
			3	4	12
Total total	6		4	2	8
			5	3	15
MOUTH				6	36
	Males		6 7	0	
12	1	12	6	1	7
24	1	24	8	1	8
			10	1	10
Totals	2	36	12	7	84
Average (mon		18.0	18	3	54
Unknown	4	10.0	20 .	1	20
			24	1	24
Total total	6		Table		
	Females		Totals	31	279
16	1 emailes	16	Average (mor Unknown	10	9.0
				10	
Totals	1	16	Total total	41	
Average (mon	(ths)	16.0		Females	
JAW		1000000		remates	
1.4.11	M		4	1	4
0	Males		12	2	24
2 5 6 7 8	1	2	20	1	20
5	3	15	24	1	24
6	3	18			
7	2	14	Totals	5	72
	1	8	Average (mon		14.4
9	1	9	Unknown	2	1.1.4
11	2	22	CHKHOWH	4	
12	8		Total total		
14	0	90	Total total	7	

Males and Females

			Duration		
VECK	Males		(MONTHS)	Number	Aggrega
Duration			12	3	36
(MONTHS)	Number	Aggregate	24	3	72
2	2	4	72	1	
4	ĩ	4	120	1	72
5	2	10	120	1	120
6	4				
	1	42	Totals	11	210
8	1	8			318
10	2	20	Average (mon		28.9
11	1	11	Unknown	9	
12	8	96			
16	2	32	Total total	20	
17	ĩ	17	J otar totar	20	
18	1			Females	
	5	90	-	remates	
24	3	72	5	1	5
31	1	31	6	2	12
36	2	72	7	1	7
46	1	46	10	î	10
48	ĩ	48	12	2	
60	1			3	36
	1	60	24	1	24
144	1	144	36	1	36
			60	2	120
Totals	42	807	72	1	72
Average (mon	ths)	19.2		-	
Unknown	22		1.		
e mino mi			Totals	13	322
Total total	64		Average (mon	ths)	24.8
Jotal total	64		Unknown	5	- 110
	Females		Total total	18	
4	1	4	- orar rotar	10	
5	1				
5 6	1	5			
0	2	12	0.0000000		
7	2	14	EYES		
8	1	8		Males	
12	5	60	4	1	4
18	1	18	4	1	4
24	9	10	6	1	6
	1	48	12	1	12
30	1	30			
84	1	84	T . 1	0	
96	1	96	Totals	3	22
			Average (mon	ths)	7.3
Totals	18	379	Unknown	1	
Average (mon					
		21.1	and the second		
Unknown	19		Total total	4	
m . I I				Females	
Total total	37		12	1	10
			36	1	12 36
			50		
ICE			Totals	2	48
ACE	1000				
	Males		Average (mont		24.0
4	1	4	Unknown	4	
	*				
6	1	6			

Males and Females

NOSE				Females	
	Males		Duration		
Duration			(MONTHS)	Number	Aggregate
(MONTHS)	Number	Aggregate	4	1	4
2	1	2	12	1	12
24	1	24	16	1	16
216	1	216	10.1		
Totals		010	Totals	3	32
Average (months	3	242	Average (mont	1)	10.7
Unknown	5)	80.7	CHEEK		
CHKHOWH	1			Males	
Total total	4		21	1	21
i otar totar			36	1	36
36	Females	26			
60	1	36	Totals	2	57
00	1	60	Average (month		28.5
Totals	2	96	Unknown	3	
Average (months		48.0	T . 1 1		
Unknown	1	40.0	Total total	5	
Changan	1			Females	
Total total	3		6	1	6
EAR	1252		Totals	1	6
	Males	252388	Average (month	15)	6.0
6	2	12	HARD PALATE		
36	1	36	nano ratante	Males	
T 1			7	1	7
Totals	3	48	10	î	10
Average (months) 16.0		16.0	12	î	12
	Females		19	î.	19
5	2	10			
6	1	6	Totals	4	48
24	2	48	Average (month	is)	12.0
72	1	72	Unknown	3	
Totals		100			
Average (months	6	136	Total total	7	
Unknown	3	22.7	PHARYNX .		
CHKHOWH	3		2	1	2
Total total	9		<u>6</u>	2	12
	-		12	ī	12
HEAD			24	î	24
(0)	Males				
60	1	60	Totals	5	50
Tal			Average (month	s)	10.0
Totals Average (months	1	60	Unknown	1	
	,)	60.0		#****	
TONSIL			Total total	6	
23	Males			Females	
4	1	4	24	1	24
7	23	14			
12	3	36	Totals	1	24
18	1	18	Average (month	s)	24.0
T 1			Unknown	1	100 C
Totals Average (month	7	72			
		10.3	Total total	2	

Males and Females

Table 14	(By Duration	of Disease, Acc	ording to Organs a	and Parts) Co	ntinued
OESOPHAGUS			Duration		
	Males		(MONTHS)	Number	Aggrega
Duration (MONTHS)	Number		4	17	68
(auxins)	Number	Aggregate	5	9	45
1	1	1	6	47	282
2	2	4	7	12	84
3	9	27	8	14	112
4 5 6 7 8	12	48	9	. 7	63
5	3	15	10	5	50
6	17	102	11	1	11
7	1	7	12	85	1,020
8	3	24	14	5	70
9	5	45	15	2	30
10	4	40	16	ĩ	16
12	20	240	18	20	360
14	1	14	20	20	
15	2	30		1	20
16	2		21	1	21
	1	16	22	1	22
24	2	48	24	35	840
30	1	30	26	1	26
36	2	72	30	4	120
			36	10	360
Totals	86	763	42	1	42
Average (mon		8.9	48	2	96
Unknown	61		60	1	60
			72	2	144
Total total	147		96	1	96
			120	2	240
	Females		m 1		1.000
4	1	4	Totals	327	4,395
5	1	5	Average (mor		13.4
6 7	3	18	Unknown	244	
7	1	7			
8	2	16	Total total	571	
10	1	10			
12	5	60		Females	
13	1	13	1		9
15	î	15		$\frac{2}{5}$	10
16	î	16	23	17	51
18	2	36			
24	$\frac{2}{2}$	48	4	12	48
25	ĩ	25	5 6	$\frac{8}{47}$	40
25 36	1	36		41	282
	1		7 8	6	42
54	1	54	8	8	64
240	1	240	9	8 7 6 2 73	63
m 1			10	6	60
Totals	25	603	11	2	22
Average (mon	ths)	24.1	12	73	876
Unknown	12		13	1	13
			14	$ \begin{array}{c} 1 \\ 2 \\ 1 \\ 2 \\ 2 \end{array} $	28
Total total	37		15	1	15
			16	2	32
STOMACH			17	2	34
	Males		18	14	252
1		5	19	2	38
1	5	5			38 20
23	13	26	20	1	
3	22	. 66 l	24	42	1,008

Males and Females

Table 14 (By Duration of Disease, According to Organs and Parts) Continued Duration STOMACH-Females (Continued) Number Aggregate (MONTHS) Duration (MONTHS) Number Aggregate 4,248 Totals 15.1Average (months) Totals 1,800 Unknown 10.9 Average (months) Total total Unknown LIVER Total total Males PERITONEUM Males I Totals Average (months) 8.8 Unknown Total total Females Totals 1,463 Average (month) 12.5 Unknown Total total $\overline{5}$ Females Totals Average (months) 14.4 Unknown Total total

Males and Females

Table 14 (I	By Duration of Disease,	According to Organs and Parts) Continued	
INTESTINES		1 Duration	

INTESTINES			Duration		
	Males		(MONTHS)	Number	Aggregate
Duration			41	1	41
(MONTHS)	Number	Aggregate	42	2	84
1	3	3	60	$\tilde{2}$	120
2	8	16	72	2	144
3	6	18	132	ĩ	132
4	5	20	240	1	
5	5	25	240	1	240
6	17	102	Tatala	010	0.005
7	1	7	Totals	218	3,695
8	5	40	Average (mo		16.9
9	3		Unknown	184	
10	4	36		1000	
12	4	40	Total total	402	
13	30	360	DECTUN		
	$\frac{2}{2}$	26	RECTUM		
14	2	28		Males	
15	1	15	1	4	4
16	3	48	23	5	10
18	3	54	3		6
21	1	21	4	2 2 3	8
22	1	22	5	3	15
24	9	216	6	8	48
36	4	144	7	1	7
48	3	144	.8	4	32
60	2	120	9	4	36
120	ĩ	120	10	4	
	1	120	10	2	20
Totals	120	1,625	12	1	11
Average (mo	nthe)			15	180
Unknown		13.5	13	1	13
Unknown	119		14	1	14
T 1 1	200		15	2	30
Total total	239		17	1	17
			18	6	108
	Females	1. S.	22	1	22
1	4	4	23	1	23
2	3	6	24	15	360
3	8	24	30	2	60
4	9	36	36	2 7	252
5	5	25	42	1	42
6	32	192	72	2	144
7	6	42	84	ī	84
8	8	64	96	ĩ	96
9	8	72	48	î	48
10	4		10	1	40
11	5	40	Totals	94	1,690
12		55	Average (mon		18.0
12	43	516	Unknown	47	10.0
	1	13	CHKHOWH	.41	
15	1	15	Tetal tatal	141	
17	1	17	Total total	141	
18	10	180		Females	
19	1	19	1	5 2	5
23	1	23	2	2	4
24	42	1,008	$2 \\ 3 \\ 4$	1	3
25	1	25	4	1	4
30	3	90	5	1	4 3 4 5
36	13	468	6	11	65
				1.12215.25	115660

Males and Females

	nales (Continue	ed)	UTERUS		
Duration (MONTHS)	Number	Aggregate	0.000000000000000	Females	
8	3	24	Duration		
9	6	54	(MONTHS)	Number	Aggregat
10	2	20	1	4	4
12	18	216	2	2	4
14	1	14	3	4	12
15	9	30	4	9	36
16	ĩ	16	5	5	25
18	7	126	6	30	180
20	1	20	7	6	42
24	18	432	8	5	40
25	10		9	9	81
27	1	25	10	7	70
30	1	27	11	4.	44
33	1	30	12	72	864
36	6	33	13	1	13
60	0	216	14	4	56
	2	120	15	8	120
72	1	72	16	1	16
T 1			17	ĩ	17
Totals	93	1,562	18	21	378
Average (mon		16.8	19	1	19
Unknown	53		20	4	80
			21	1	21
Total total	146		22	î	22
OVARY			24	60	1,440
	Females		26	1	26
1	2	2	27	5	135
2	2 2	4	30	8	
2 3	ĩ	3	32	3	240
4	i	4	36	29	96
6	â	48	42	29	1,044
7	1	7	48	15	42
9	2	18	54	15	720
11	ĩ	10	59	1	54
12	0	108	60	1	59
14	1	100		8	480
15	3		66 72	1	66
17	1	45 17		3	216
18	4		84	3	252
19	1	72	96	4	384
20	2	19	132	1	132
24	8	40	144	3	432
30		192	156	1	156
36	2	60	408	1	408
	3	108	m i		
42	1	42	Totals	349	8,526
48	1	48	Average (mo		24.4
60	1	60	Unknown	223	
72	1	72			
84	1	84	Total total	572	
200	1	200	VAGINA AND		
Totals	58	1.979			
Average (mont)	he)	1.278	6	Females	
Unknown		22.0	6	3	18
COMIONI	38		9	1	9
Total total	96		10	1	10
	1.00		12	2	24

Table 14 (By Duration of Disease, According to Organs and Parts) Continued

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Males and Females

VAGINA AND Duration		inued)	Duration (MONTHS)	Number	Aggregat
(MONTHS)	Number	Aggregate	22	2	44
13	1	13	24	72	1,728
14	1	14	25	2	50
18	2	36	26	1	26
20	1	20	27	2	54
22	î	22	28	1	28
23	î	23	30	10	300
24	3	72	32	2	64
36	2	72	36	30	1.080
60	1	60	37	1	37
00	I	00	38	î	38
Totals	20	393	41	3	123
Average (mon		19.7	42	3	126
Unknown	7	19.0	45	1	45
Unknown	'		43	12	576
T . 1 1	07		84	12	84
Total total	27		0.4	1	
OTHERS OF T			Totals	276	5,867
	Females		Average (mor		21.3
8	1	8	Unknown	216	
9	1	9			
15	î	15	Total total	492	
18	î	18	(1777)		
32	î	32	SKIN		
60	1	60		Males	
216	1	216	6	1	6
210	1	210	12	1	12
Totals	7	358	42	1	42
Average (mor		51.1			
	A	51.1	Totals	3	60
Unknown	4		Average (mor	nths)	20.0
Total total	11		Unknown	4	
			Total total	7	
BREAST	Females		Totartotar	Females	
1	1	1		remates	1
0	3	6	1	1	12
2 3	8	24	6	2	26
		16	13	2	
4	4		24	1	24
5	4 5 11	25	36	2	72 42
6	11	66	42	1	42
5 6 7 8	5 5	35	60	1	60
8		40	120	1	120
9	4	36			
10	4	40	Totals	11	357
11	2	22	Average (mor	nths)	32.5
12	43	516	Unknown	7	
13	2 4	26			
14	4	56	Total total	18	
15	23	30			
16	3	48	LARYNX		
17	1	17		Males	
18	21	378	5	1	5
20	22	40	6	8	48
21	0	42	8	6	48

Table 14 (By Duration of Disease, According to Organs and Parts) Continued

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Males and Females

LARYNX-Mal Duration	es (Continued))	D	Females	
(MONTHS)	Number	Aggregate	Duration (MONTHS)	Number	Aggregate
9	2	18	(abstits)		
12	9	108	2	3	3
14	í	14	3	4	
15	î	15	3	5	15
17	î	15	6	3 5	12
18	1	18	8		30
21	1	21	0	3	24
24	1	24		1	.9
36	1	36	11 12	1	11
48	1	48		10	120
10	1	-10	13	1	13
Totals	34	420	14	1	14
Average (mon			15	2	30
		12.4	18	1	18
Unknown	20		24	4	96
Total total	54		36	1	36
i otar totar	34		39	2	78
	Females		48	1	48
3	Tentucs		60	1	60
5	1	1	132	1	132
6	1	5			
7	1	6	Totals	50	757
12	1	7	Average (mor		15.1
12	2	24	Unknown	23	
Totals	6	43	Total total	73	
Average (mon		7.2	Totariotar	15	
Unknown	3	1.2	PANCREAS		
e mino mi				Males	
Total total	9		2	4	8
- order total	1		3	2	6
LUNGS			4	$\overline{4}$	16
	Males		6	6	36
1			7	3	21
1	1	1	8	1	8
2 3	6	12	10	4	40
4	3	9	12	6	72
	6	24	18	1	18
5	$2 \\ 5 \\ 3 \\ 2 \\ 1$	10	20	î	20
6 7	5	30	24	4	20 96
8	3	21	26	1	26
o 9	2	16	30	î	30
		9	00	1	30
10	2	20	Totals	38	397
11	1	11	Average (mon	oo the)	
12	7	84	Unknown	32	10.4
18	1	18	Chknown	34	
24	1	24	Total total	70	
48	1	48	i otar totar		
204	1	204		Females	
Totals	42	543	1	3	3
	43	541	2 3 5	3	6
Average (mont		12.6	3	$\frac{3}{2}$	9
Unknown	27				10
Total total			6	6	36
Total total	70		7	1	7

Males and Females

	Females (Contin	nued)	Duration (MONTHS)	Number	Aggregate
Duration (MONTHS)	Number	Aggregate	5	3	15
9	1	9	6	7	42
10	î	10	7	2	14
12	13	156	8	2 3	24
24	10	24	9	2	18
48	1	48	12	18	216
72	1	72	15	10	15
14	1	14	13	7	126
Totals	36	390	21	1	21
		10.8	24	15	360
Average (mo	ntns)	10.0	27	15	
Unknown	27		30	1	27 30
T	(2)			1	
Total total	63		32	. 1	32
KIDNEYS			36	2	72
KIDALIS	Males		48	3	144
0	A	8	60	4	240
$\frac{2}{3}$	1	3	96	1	96
	1	6			7 500
6	1	7	Totals	79	1,509
7	1	8	Average (mor		19.1
8	1		Unknown	62	
12	3	36			
24	3	72	Total total	141	
60	1	60	DIADDED		
T . 1	15	200	BLADDER	Males	
Totals		13.3	1		0
Average (mo	27	10.0	1	2 3	2 9
Unknown	21		3 4	3	4
T . 1 1	40			1	5
Total total	42		5	1	5
	Females		6	13	78
4	1	4	8	1	8
5	1	5	9	3	27
6	2 2 2	12	11	1	11
7	2	14	12	21	252
8	2	16	14	$\frac{2}{2}$	28
13	1	13	16		32 72
14	1	14	18	4	
20	1	20	24	15	360
24	6	144	30	2	60
36	1	36	36	6	216
48	3	144	48	1	48
60	1	60	60	2	120
84	î	84	96	1	96
01					7 100
Totals	23	566	Totals	81	1,428
Average (mo		24.6	Average (mor		17.6
Unknown	11		Unknown	48	
			Total total	129	
Total total	34		Totartotal	Females	
PROSTATE			2	remates	3
, noornin	2	3	3 4 5 6	2	3
1	3 2 2	6	5	2 2 6	10
3	2	8	6	6	36
4					

Males and Females

BLADDER-Fe	males (Continu	ied)	Duration (MONTHS)	Number	Aggregate
(MONTHS)	Number	Aggregate	9	1	Aggregate 9
8	1	8	12	2	36
12	7	84	15	1	15
13	2	26	18	1 i	13
17	ĩ	17	24	6	144
18	2	36	36	4	144
20	1	20	42	1	42
21	1	21	48	î	48
24	4	96		-	40
32	1	32	Totals	35	557
48	2	96	Average (mo		15.9
54	1	54	Unknown	26	10.7
60	1	60			
			Total total	61	
Totals	35	607			
Average (mon		17.3		Females	
Unknown	27		2 4	1	2
				1	2 4 5
Total total	62		5	1	5
BRAIN			6	5	30
DIATIA	Males		7	2	14
5	Mates	-	8	2 2 2	16
8	1	5	9		18
24	2	8	10	4	40
2.4	2	48	12	5	60
Totals	4	61	13	1	13
Average (mon		15.3	14	1	14
Unknown	4	10.0	18	2	36
Chichen	4		22	1	22
Total total	8		24	4	96
sour rout			27	1	27
	Females		33	1	33
$\frac{2}{3}$	1	2	36	2	72
3	1	3	37	1	37
5	1	5	48	3	144
6	1	6	96	2	192
18	1	18	120	1	120
24	2	48	144 156	1	144
84	1	84	199	1	156
216	1	216	Totals	45	1 005
Total			Average (mon	45 (he)	1,295
Totals	9	382	Unknown	20	28.8
Average (mont	(ns)	42.4	CHKHOWH	20	
Unknown			Total total	65	
Total total	16		TESTES		
BONES			TESTES	Mala	
CONTRACT.	Males		0	Males	
3		6	2	1	2
4	2 2 2 5	6	3	1	2 3 5
4 5	2		5	1	5
6	5	10	6	1	6
7	1	30	8	1	8
8	5	7	12	2	24
	3	40	14	1	14

Males and Females

TESTES (Conti	inued)		APPENDIX		
Duration			1	Females	
(MONTHS)	Number	Aggregate	Duration	Number	Aggregat
21	1	21	(MONTHS)		
24	1	24	4	1	4
Totals	10	107	Totals	1	4
Average (mon		10.7	Average (mor	nths)	4.0
Unknown	5		Unknown	1	
Total total	15		Total total	2	
			GENERAL		
PENIS				Males	
	Males		2	1	2
5	2	10	23	3	9
6	1	6	6	2	12
7	1	7	7	2	14
9	1	9	8	2 2 3	24
24	1	24	12	4	48
240	1	240	14	î	14
	B		18	ĩ	18
Totals	7	296	60	ĩ	60
Average (mon	ths)	42.3	00		
Unknown	2		Totals	18	201
Total total	9		20	Females	
			1	1	1
HEART			23	1	2 9 8
	Males		3	3	9
5	1	5	4	2	
			6	3	18
Totals	1	5	9	1	9
Average (mon	ths)	5.0	12	1	12
			13	1	13
	Females		16	1	16
8	1	8	24	4	96
48	1	48	36	2	72
202-1			48		48
Totals	2	56	72	2	144
Average (mon		28.0	84	1	84
Unknown	1		180	1	180
Total total	3		Totals	25	712

APPENDIX B

CANCER MORTALITY OF CHICAGO-1924

MALES AND FEMALES

Table 1

BY ORGANS AND PARTS

Parts	Total	Per 100,000	Males	Per 100,090	Females	Per 100,000
Lips	7	.3	5	.4	2	.2
Tongue	34	1.3	30	2.2	4	.3
Mouth	4	.2	3	.2	1	.1
Jaw	42	1.6	37	2.7	ŝ	.4
Throat	9	.3	8	.6	1	1
Neck	32	1.2	21	1.5	11	.8
Face	17	.6	8	.6	9	.7
Eyes	6	.2	2	.1	4	.3
Nose	5	.2	ĩ	.1	4	.3
Ear	6	.2	3	.1	2	.3
Head	ĩ	.0	1	.1	а	.2
Tonsils	5	.2	3	.2	2	-
Cheek	5	.2	1	.2		.2
Hard palate	2	.1	2		1	.1
Chin	-	.1	2	.1	-	-
Pharynx	8	2	6	-	-	-
Oesophagus	141	5.2	111	.4	2	.2
Stomach	775	28.7	464	8.8	30	2.3
Liver and gall bladder	256	9.5	101	33.9	311	23.4
Mesentery and peritoneum			102	7.5	154	11.6
Intestines	21	.8	8	.6	13	1.0
Intestines	296	11.0	142	10.4	154	11.6
	141	5.2	78	5.8	63	4.7
Ovary	47	1.7			47	3.5
Uterus	346	12.8	-	-	346	26.0
Vulva and vagina	10	.4	—		10	.8
Others of this class	_	-	—	-		-
Breast	265	9.8	—	-	265	19.9
Skin	14	.5	8	.6	6	.5
Larynx	47	1.7	42	3.1	5	.4
Lungs and pleura	75	2.8	50	3.7	25	1.9
Pancreas	105	3.9	58	4.2	47	3.5
Kidneys	63	2.3	42	3.1	21	1.6
Prostate	86	3.2	86	6.3	21	1.0
Bladder	157	5.8	104	7.7	53	4.0
Brain	14	.5	6	4	8	
Bones	71	2.6	36	2.6	35	.6
Testes	6	.2	6	.4	-00	2.6
Penis	7	.3	7	.5		-
Heart	4	.2	2	.0		-
Appendix	2	.1	4	.1	-	.2
General	31	1.1	0	-	2	.2
					22	1.7
Totals	3,163	117.2	1,495	110.1	1,668	125.9

Males and Females

Table 1-Continued

BY ORGANS AND PARTS-SUMMARY

	Total	Per 100,000	Males	Per 100,000	Females	Per 100,000
Cancer of buccal cavity	324	12.0	245	17.9	79	5.9
Cancer of stomach and liver	1,031	38.2	566	41.3	465	34.9
Cancer of peritoneum, intes- tines and rectum	458	17.0	228	16.7	230	17.3
Cancer of female genital organs	403	14.9	_	-	403	30.3
Cancer of breast	265	9.8			265	10.9
Cancer of skin Cancer of other organs or of	14	.5	8	.6	6	.5
organs not specified	668	24.7	448	32.7	220	16.5
Totals	3,163	117.1	1,495	109.2	1,668	125.3

Table 2

BY MONTHS

Month	Total	Per cent.	Males	Per cent.	Females	Per cent.
January	292	9.23	120	8.03	172	10.31
February	232	7.34	102	6.82	130	7.80
March	269	8.50	132	8 83	137	8.21
April	272	8.60	127	8.49	145	8.69
May	282	8.92	134	8.96	148	887
June	258	8.16	126	8.43	132	7.92
July	236	7.46	107	7.16	129	7.74
August	286	9.04	146	9.77	140	8.39
September	258	8.16	125	8.36	133	7.97
October	273	8.63	121	8.09	152	9.11
November	238	7.52	125	8.36	113	6.78
December	267	8.44	130	8.70	137	8.21
Totals	3,163	100.00	1,495	100.00	1,668	100.00

Table 3

BY BIRTHPLACE OF MOTHER

Countries	Males	Females	Total	Total
U. S. A	203	331	534	534
Canada	26	27	53	
Nova Scotia		2	2	55
Mexico	1	1	2	
Cuba	1	1	2	4
England	30	59	89	-
Wales and North Wales	5	1	6	_
Scotland	26	19	45	-
Ireland	185	222	407	547
Sweden	73	88	161	-
	40	33	73	
Norway	20	15	35	
Denmark	1	4	5	-
Poland	92	80	172	-

Males and Females

Countries	Males	Females	Total	Total
Russia	60	73	133	
Armenia		1	1	
Lithuania	22	15	37	617
Austria	30	21	51	
Galicia	1	1	2	
Hungary	11	19	30	_
Czecho-Slovakia	18	25	43	
Persia		1	1	
Turkey	1		1	
Roumania	3	4	7	_
Jugo-Slavia	1	2	3	-
Dalmatia	1		1	
Greece	5		5	_
Bohemia	45	42	87	-
Bavaria	2	1	3	
Croatia		1	1	-
Moravia	2	1	3	238
Italy	31	34	65	
France	6	5	11	
Alsace Lorraine	_	3	3	
Sicily		2	2	81
Switzerland	6	4	10	10
Germany	308	307	615	-
Belgium	8	2	10	_
Luxemburg	5	9	14	
Holland	22	12	34	
Prussia		2	2	675
Syria	1	-	ĩ	1
Africa	-	1	î	î
Unknown	203	197	400	400
Totals	1,495	1,668	3,163	3,163

Table 3 (By Birthplace of Mother) Continued

Table 4

BY METHOD OF DIAGNOSIS

	Total	Per cent.	Males	Per cent.	Females	Per cent.
No test	93	2.94	55	3.68	38	2.28
Clinical	1.743	55.26	771	51.57	977	58.57
Microscopic	168	5.31	59	3.95	109	6.53
Laboratory	132	4.17	57	3.81	75	4.50
Operation	284	8.98	138	9.23	146	8.75
Autopsy	219	6.92	130	8.70	89	5.34
X-ray	214	6.77	123	8.23	91	5.46
Clinical and laboratory	233	7.37	125	8.36	108	6.47
Histological	26	.82	15	1.00	11	.65
Pathological	28	.89	11	.74	17	1.02
Biopsy	10	.32	3	.20	7	.42
Necropsy findings	8	.25	8	.53	<u> </u>	-
Totais	3,163	100.00	1,495	100.00	1,668	100.00

65

Males and Females

Table 5

BY LENGTH OF RESIDENCE AT PLACE OF DEATH

Days	Total	Total Days	Males	Total Days	Females	Total . Days
1	6	6		5	1	1
2 3	2	4	5 2 2	4	÷	1
3	6	18	2	6	4	12
4 5	6	24	4	16	2	8
5	3	15	2	10	ĩ	8 5 28 8
6	5	30	4	24	1	6
6 7	10	70	6	42	1	20
8	1	.0	0	42	1	20
8 9	î	9	1	9	1	0
10	4	40			-	20
11	9		1	10	3	30
12	23	22	-	-	2	22 12
13		36	2	24	1	
14	-	-	-		-	14
	5 2	70	4	56	1	14
15	2	30	-	16	2	30
16	1	16	1	16	-	-
17	2	34	_	-	2	34
18	$ \begin{array}{c} 1 \\ 2 \\ 2 \\ 2 \end{array} $	36	$\frac{2}{2}$	36	-	-
19		38	2	38	-	-
20	-	-	-	-	-	-
21	3	63	1	21	2	42
22	1	22	1	22	-	-
23	-	-	-	-	-	-
24	-	-	-	-	-	-
25	-	-	-	-	-	-
26	-	-	-	-	. –	-
27	1	27	-	-	1	27
28	1	28	-	-	1	28
29		-	-		-	-
30	2	60	-	-	2	60
Totals	71	706	40	339	31	367
		Total		Total		Total
Months	Total	Months	Males	Months	Females	Months
1	31	31	16	16	15	15
2 3	32	64	19	38	13	26
3	13	39	9	27	4	12
4	4	16	1	4	3	12
5	4	40	$1\\3\\13$	15 78	3 5 9	25
6	22	132	13	78	9	54
5 6 7 8	$22 \\ -4 \\ 5 \\ 2 \\ 4$	28	3 3	21	1	$12 \\ 12 \\ 25 \\ 54 \\ 7 \\ 16 \\ 9 \\ 30$
8	5	40	3	24	2	16
9	2	18	1	9	$^{2}_{1}$	9
10	4	40	1	10	3	30
11	_	_	-	-	-	-
Totals	125	448	69	242	56	206

	Table 5 (B	y Length of Re	sidence at P		h) Continued	
Variation	Total	Total	Males	Total	Females	Total Years
Years		Years		Years	19	19
1	40	40	21	21		
2 3	77	154	26	52	51	102
34	34	102	17	51	17	51
5	39	156	11	44	28	112
	42	210	24	120	18	90
6	28	168	12	72	16	96
7 8	34	238	14	98	20	140
9	31	248	9	72	22	176
10	16	144	2	18	14	126
11	77	770	31	310	46	460
12	31 55	341	11	121	20	220
13		660	22	264	33	396
13	24	312	7	91	17	221
	40	560	18	252	22	308
15	67	1,005	30	450	37	555
16	24	384	8	128	16	256
17	30	-510	16	272	14	238
18	34	612	18	324	16	288
19	16	304	.8	152	8	152
20 21	128	2,560	57	1,140	71	1,420
22	28	588	14	294	14	294
	36	792	22	484	14	308
23 24	28	644	12	276	16	368
24	28	672	15	360	13	312
	89	2,225	39	975	50	1,250
26 27	18 21	468	4	104	14	364
28	21	567	11	297	10	270
29	18	588	8	224	13	364
30	191	522 5 720	3	87	15	435
31	40	$5,730 \\ 1,240$	98	2,940	93	2,790
32	68	2,176	15 33	465	25	775
33	52	1,716		1,056	35	1,120
34	33	1,122	26 13	858	26	858
35	142	4,970	71	442	20	680
36	37	1,332	16	2,485	71	2,485
37	41	1,552	23	576	21	756
38	47	1,786	19	851 722	18	665
39	25	975	11	429	28 14	$1,064 \\ 546$
40	243	9,720	119	4,760	124	
41	26	1,066	12	492	14	4,960 574
42	53	2,226	26	1,092	27	1,134
43	49	2,107	23	989	26	
44 .	37	1,628	23	1,012	14	1,118
45	72	3,240	48	2,160	24	$616 \\ 1,080$
46	18	828	10	460	8	
47	14	658	6	282	8	368 376
48	21	1,008	10	480	11	
49	11	539	4	196	7	528 343
50	107	5,350	54	2,700	53	2,650
51	26	1,326	11	561	15	765
52	53	2,756	27	1,404	26	1,352
53	32	1,696	15	795	17	901
54	31	1,674	12	648	19	1,026
55	33	1,815	16	880	17 .	935
56	13	728	5	280	8	448
57	17	969	9	513	8	456

Males and Females

Males and Females

1	able 5	(By Length of Re	sidence at	Place of Death)	Continued	1
Years	Total	Total Yours		Total		Total
58	16		Males	Years	Females	Years
59		928	7	406	9	522
	11	649	5	295	6	354
60	46	2,760	21	1,260	25	1,500
61	12	732	7	427	5	305
62	15	930	8	496	57	434
63	12	756	6	378	6	378
64	13	832	7	448	6	
65	14	910	5	325		384
66	11	726	6		2	585
67	6	402		396	5	330
68			4	268	2	134
	4	272	4	272	-	-
69	3	207	2 2	138	1	69
70	6	420	2	140	4	280
71	5	355	3	213	2	142
72	7	504	3	216	4	288
73	1	73			í	73
74	5	370	1	74	4	296
75	2	150	2	150	·#	290
76	-				-	-
77	1		-			-
	1	77	1	77	-	-
Totals	2,876	90,495	1,339	42 660	1.507	46.005
Totals in mor			1,559	43,660	1,537	46,835
David David David		1,085,940		523,920		562,020
Days	71	706	40	339	31	367
Total months		24		11		12
Months	125	448	69	242	56	206
V	0.070					
Known total	3,072		1,448		1,624	
Total months		1,086,412		524,173		562,238
Unknown	91		47		44	
Total total	3,163		1,495		1,668	
Average (year:	s)	29.5	100	30.1	-,000	29.0
			Table 6			
			Table 6			
		BY AGE A'	Г ТІМЕ О	F DEATH		Total
Years	Total	Yours	Males	Years	Females	Total Years
1	1	1	1	1		
2	3	6	1	9		4
$2 \\ 3 \\ 5 \\ 6 \\ 7 \\ 8 \\ 10 \\ 11$	3 4	12	2	2 6	2 2 1	4
5	1	12 5 24 7		0	2	0
5	1	5	-	-	1	5
0	4	24	3	18	1	6
1	1	7	1	18 7 8	-	
8	2	16	1	8	1	8
10	1	10 11 39			1	10
11	1	11		-	1	11
13	3	39	2	26	î	13
14	2	28	$\frac{2}{1}$	14	1	
15	$\frac{2}{1}$	15		15	1	14
16		10	$\frac{1}{2}$	10	-	-
10	3 1	43	2	32	1	16
18	1	18		-	1	18
19	1	19	-	-	1	19
20	$\frac{2}{5}$	40	1	20	1	20
21	5	105	4	84	1	19 20 21
21 22	6	132	5	110	1	22

Table 5 (By Length of Residence at Place of Death) Continue

Males and Females

Table 6 (By Age at Time of Death) Continued

	Tal	ble 6 (By Age a	t Time of		nued	
		Total		Total	Females	Total Years
Years	Total	Years	Males	Years 46	2	46
23	4	92	2	24	2	48
24	3	72	1		1	25
25	1	25		52	6	156
26	8	208	23	81	3	81
27	6	162	3	84	5	140
28	8	224	1	29	9	261
29	10	290 240	2	60	6	180
30	8	240	5	155	4	124
31		512	5	160	11	352
32	16 8	264	3	99	5	165
33 34	12	408	4	136	8	272
35	24	840	5	175	19	665
36	28	1,008	7	252	21	756
37	29	1,073	11	407	18	666
38	27	1,026	8	304	19	722
39	23	897	7	273	16	624
40	55	2,200	20	800	35	1,400
41	31	1,271	13	533	18	738
42	51	2,142	22	924	29	1,218
43	37	1,591	23	989	14	602
44	42	1.848	16	704 .	26	1,144
45	57	2,565	26	1,170	31	1,395
46	55	2,530	20	920	35	1,610
47	63	2,961	23	1,081	40	1,880
48	57	2,736	19	912	38	1,824
49	60	2,940	31	1,519	29	1,421
50	68	3,400	27	1,350	41	2,050
51	82	4,182	32	1,632	50	2,550
52	88	4,576	47	2,444	41	2,132
53	73	3,869	42	2,226	31	1,643
54	91	4,914	45	2,430	46	2,484
55	86	4,730	49	2,695	37	2,035
56	89	4,984	37	2,072	52	2,912
57	93	5,301	50	2,850	43	2,451
58	86	4,988	44	2,552	42 35	2,436
59 60	75 117	4,425 7,020	40 49	2,360 2,940	68	2,065 4,080
61	77	4,697	45	2,745	32	1,952
62	122	7,564	63	3,906	52	3,658
63	85	5,355	35	2,205	50	3,150
64	100	6,400	51	3,264	49	3,136
65	126	8,190	62	4,030	64	4,160
66	87	5,742	48	3,168	39	2,574
67	86	5,762	46	3,082	40	2,680
68	81	5,508	41	2,788	40	2,720
69	78	5,382	48	3,312	30	2,070
70	67	4,690	34	2,380	33	2,310
71	50	3,550	26	1,846	24	1,704
72	49	3,528	19	1,368	.30	2,160
73	48	3,504	26	1,898	22	1.606
74	64	4,736	28	2,072	36	2.664
75	34	2,550	16	1,200	18	1,350
76	47	3,572	20	1,520	27	2,052
77	47	3,619	25	1,925	22	1,694
78	32	2,496	19	1,482	13	1,014
79	23	1,817	12	948	11	869

Males and Females

Table 6 (By Age at Time of Death) Continued

	1	able 6 (By Ag	e at Time of	Death) Contin	nued	
Years	Total	Total Years	Males	Total		Total
80	31			Years	Females	Years
81	25	2,480	15	1,200	16	1,280
82	23	2,025	14	1,134	11	891
83	12	1,722	8	656	13	- 1,066
84	9	996 756	7	581	5	415
85	13	756	4	336	5	420
		1,105	2	170	11	935
86	9	774	3	258	6	516
87 88	5 5	435	2 5	174	3	261
89	5	440		440	-	
	5	445	2	178	3	267
90	1	90			1	90
94	1	94			1	94
96	1	96	-	-	1	96
Totals	3,163	183,449	1,495	88,049	1,668	95,400
Average age		58.00		58.90	-,	57.19
			SUMMARY	(
Years	Total	Per cent.	Males	Per cent.	Females	Per cent.
1-9	16	.51	9	.60	7	.42
10-19	13	.41	6	.40	7	.42
20-29	53	1.68	22	1.47	31	1.86
30-39	184	5.82	57	3.81	127	7.61
40-49	508	16.06	213	14.25	295	17.69
50-59	831	26.27	413	27.63	418	25.05
60-69	959	30.32	488	32.64	471	28.24
70-79	461	14.57	225	15.05	236	14.15
80-89	135	4.27	62	4.15	73	4.38
90 & over	3	.09	-	-	3	.18
Totals	3,163	100.00	1,495	100.00	1,668	100.00
Totals	5,105	100.00		100.00	1,000	100.00
		DV	Table 7	C A DIT		
			TIME OF D			
Hour, A. M.	Total	Per cent.	Males	Per cent.	Females	Per cent.
1	110		45		65	
23	115		51		64	
3	124		61		63	
Total	349	11.83	157	11.31	192	12.28
	119		53		66	
4 5	113		59		54	
6	138		74		64	
<i>m</i> 1						
Total	370	12.54	186	13.40	184	11.77
7	100		47		53	
7	100		38		62	
9	140		63		77	
Total	340	11.52	148	10.66	192	12.28
		11.02		10.00		12.20
10	129		64		65	
11	132		57		75	
12	98		- 38		60	
Total	359	12.17	159	11.46	200	12.80
Total A. M.	1,418		650		768	0.0000
a orall sta sta	1,110		000		100	

Males and Females

Table 7 (By Time of Death) Continued

Hour, A. M.	Total	Per cent.	Males	Per cent.	Females	Per cent.
P. M.	129		57		72	
2	125		49		76	
3	136		68		68	
Total	390	13.22	174	12.54	216	13.82
4	145		78		67	
5	112		57		55	
6	126		60		66	
Total	383	12.98	195	14.05	188	12.03
7	129		61		68	
8	117		57		60	
9	135		56		79	
Total	381	12.91	174	12.54	207	13.24
10	150		75		75	
11	130		65		65	
12	99		55		44	
Track	270	10.04	105	14.05	104	11 77
Total Total P. M.	379 1,533	12.84	195 738	14.05	184 795	11.77
Total A. M.	1,418		650		768	
Total P. M.	1,533		738		795	
Known total	2,951	100.01	1,388	100.01	1,563	99.99
Unknown	212		107		105	
Total total	3,163		1,495		1,668	
			m 11 0			

Table 8

BY DURATION OF DISEASE BY MONTHS

Months	Total	Total Months	Males	Total Months	Females	Total Months
1	38	38	16	16	22	22
2	79	158	37	74	42	84
3	149	447	87	261	62	186
4	124	496	69	276	55	220
5	92	460	44	220	43	240
6	448	2,688	244	1,464	204	1,224
7	57	399	33	231	24	168
8	157	1,256	94	752	63	504
9	84	756	40	360	44	396
10	71	710	36	360	35	350
11	33	363	16	176	17	187
12	595	7,140	284	3,408	311	3,732
13	25	325	10	130	15	195
14	45	630	16	224	29	406
15	34	510	9	135	25	375
16	26	416	14	224	12	192
17	12	204	3	51	9	153
18	176	3,168	67	1,206	109	1,962
19	12	228	3	57	9	171
20	11	220	6	120	5	100
21	9	189	2	42	7	147

Males and Females

	T 11 0		es and rema			
	Table 8	(By Duration Total	of Disease b		Continued	
Months	Total	Months	Males	Total Months	Females	Total Month
22	5	110	3	66	2	44
23	1	23	0	00	2	
24	356	8,544	147	3,528	209	5 016
25	6	150	111			5,016
26	8	208	1	25	5	125
27	10	270	5	130	3	78
28	3	224	4 5	108	6	162
29	3		5	140	3	84
30	24	87	1	29	2	58
31		720	10	300	14	420
32	$\frac{2}{7}$	62	2	62	-	-
33		224	3	96	4	128
34	2 2	66	1	33	1	33
	2	68	1	34	1	34
35	1	35	1	35	-	_
36	106	3,816	37	1,332	69	2,484
37	1	37	-		1	37
38	2	· 76	1	38	î	38
39	1	39	1	39	-	
40		-	_	_		
41	1	41	_		1	41
42	15	630	6	252	ĝ	378
43	1	43	-	202	1	43
48	52	2,496	21	1,008	31	
50	1	50	21	1,000		1,488
51	2	102	1	51	1	50
54	2 5	270	1	51	1	51
60	35	2,100	10	54	4	216
62	3.5		10	600	25	1,500
	1	62	1	62	-	-
63	1	63	-	-	1	63
64	1	64	-	-	1	64
66	2	132	-	-	2	132
72	13	936	7	504	6	432
75	1	75	-	-	1	75
78	1	78	1	78	-	_
84	3	672	2	168	6	504
86	1	86	_		1	86
89	1	89	_	_	î	89
96	7	672	1	96	6	576
98	1	98	î	98	-	010
99	1	99	î	99		
108	3	324	1	-	3	324
120	7	840	2	240	5	
132	1	132	-	240	3	600
156	1			-	1	132
168	2 2	312	1	169	2	312
	2	336	1	168	1	168
180	1	180	1	180	-	-
192	1	192	-	-	1	192
204	1	204	1	204		-
253	1	253	-		1	253
300	1	300	-		1	300
Known total	2,993	47,491	1,411	19,644	1,582	27,847
Unknown	170	11,171	84	12/011	86	21,047
Total total	3,163	15.9	1,495	13.9	1,668	17.6
Average (mor						

72

Males and Females

Table 9

BY TREATMENT BY OPERATION, ACCORDING TO POPULATION

Yes No Known method Unknown Total total	Total 1,209 1,880 3,089 74 3,163	Rate per 100,000 44.8 69.6 114.4	Males 541 912 1,453 42 1,495	Rate per 100,000 39.5 66.6 106.1	Females 668 968 1,636 32 1,668	Rate per 100,000 50.2 72.7 122.9
		BY AUTOPS	SY DISPOS	ITION		
Yes No Known method Unknown	276 2,865 3,141 22	$10.2 \\ 106.1 \\ 116.3$	$165 \\ 1,320 \\ 1,485 \\ 10$	$12.1 \\ 96.4 \\ 108.5$	$111 \\ 1,545 \\ 1,656 \\ 12 $ \cdot	8.3 116.1 124.4
Total total	3,163		1,495		1,668	
		BY PLACE C	OF OCCURE	RENCE		
Hospital Institution Residence General	1,284 23 1,848 8	47.5 .9 68.4 .3	711 7 775 2	51.9 .5 56.6 .1	$573 \\ 16 \\ 1.073 \\ 6$	43.1 1.2 80.6 .5
Total	3,163	117.1	1,495	109.1	1,668	125.4

BY MARITAL CONDITION

	Females	Rate per 100.000
Married	859	64.6
Single	160	12.0
Widowed	629	47.3
Divorced	20	1.5
Total	1,668	125.4

Table 10

BY AGE AT TIME OF DEATH, BY ORGANS AND PARTS

		inter or bhan	II, DI UNGAN	5 AND PARIS	
LIPS			TONGUE		
	Males		1011002	Males	
Age	Number	Total Years of Life	1.		Total Years
57	1		Age	Number	of Life
	1	57	38	1	38
65	1	-65	40	1	
67	1	67		4	160
79	2	158	42	2	84
	-	150	43	2	86
Totals	-	0.17	45	1	45
	Э	347	46	ĩ	
Average age	(years)	69.40	48	÷.	46
	Females			1	48
62	1 conduces	(3)	49	1	49
	1	62	51	1	51
82	1	82	53	2	106
			54	ĩ	
Totals	2	144	55	1	54
Average age	(veare)			2	110
and a second condition of the second se	()cars)	72.00	56	1	56

Males and Females

Table 10	(By Age at	Time of De	ath, by Organs	and Parts) Continu	red
TONGUE-Males	(Continued)	Total Years	Age	Number	Total Years of Life

101002-1	raies (Continuea)	Total Years	Age	Number	of Life
Age	Number	of Life	73	1	73
58	2	116	76	1	76
59	2	118	79	1	79
60	2 2 3 2	180	82	2	164
62	2	124	04	4	104
65	ĩ	65	Totals	27	0.1/0
05	1	05		37	2,168
Totals	30	1,536	Average ag	e (years)	58.59
				Females	
Average age	e (years)	51.20	2	1	2
	Females		29	ĩ	29
62	1	62	50	ĩ	50
65	1	65	54	î	54
70 .	2	140	65	1	65
				*	00
Totals	4	267	Totals	5	200
Average ag	e (veare)	66.75	Average age		40.00
Average ag	e (years)	00.15	Average age	(years)	40.00
MOUTH			THROAT		
moern	Males		i into ini	Males	
61	1	61	42	1	42
68	1	68	51	1	102
	1	78	54	1	54
78	1	10	55	1	
11 . 1		007		1	55
Totals	3	207	57	1	57
Average age	e (years)	69.00	60	1	60
	Females		68	1	68
38	1	38			
			Totals	8	438
JAW			Average age	e (years)	54.75
	Males			Females	
13	1	13	29	1	29
14	ĩ	14		-	
43	î	43	NECK		
48	î	48	moon	Males	
49	î	49	23	1	23
50	î	50	41	2	82
51	2	102	42	ĩ	42
52	2 2	102	42	1	43
	2	53	53	1	53
53	1			1	
54	1	54	56	1	56
55	3 2 1	165	58	1	58
56	2	112	59	2	118
58	1	58	61	1	61
60	2	120	62	2	124
61	1	61	63	1	63
62	1	62	65	1	65
63	1	63	70	1	70
64	2	128	71	1	71
65	1	65	74	1	74
66	ĩ	66	76	1	76
67	1	67	78	1	78
68	1	68	80	1	80
	1	69	00		
69 70	1	70	Totals	21	1,237
		10	Totals		A your O I
70 72	1	72	Average age	(veare)	58.90

Males and Females

NECK—(Continued) FemalesNoSEAgeNumberNoSEAgeNumberAge2212247147	Total Years
Age Number of Life Age Number 22 1 22 70 1	Total Years
22 1 22 70 1	
	of Life
47 1 47 Females	70
50 1 50 55 1	55
51 1 51 72 1	72
52 1 52 87 1	87
53 2 106 96 1	96
60 1 60	
65 1 65 Totals 4	310
74 1 74 Average age (years)	77.50
	11.00
Totals 10 527 EAR Males	
in acco	- 4
	54
FACE 61 1	61
Males 82 1	82
2 1 2	
Al 1 Al Iolais 3	197
$\frac{1}{48}$ 1 $\frac{1}{48}$ Average age (years)	65.67
50 1 50 Females	
65 1 65 55 1	55
69 1 69 68 1	68
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	76
1 1 1 1 1 1 1 1 1 1	10
Totals 3	199
	66.33
	00.55
Average age (years) 54.38 HEAD	
Females Males	(0)
50 1 50 69 1	69
68 1 68 TONSILS	
72 1 72 Males	
74 1 74 45 1	45
75 1 75 53 1	53
81 1 81 64 1	64
85 2 170	Annual
Totals 3	162
Totals 8 590 Average age (years)	54.00
Average age (years) 73.75 Females	
71 1	71
LILS 74 1	74
Males	1.4
6 1 6 Totals 2	145
85 1 85 Average age (years)	72.50
	12.50
Totals 2 91 CHEEK	
Average age (years) 45.50 Males	
23 1	23
Females 37 1	37
5 1 5 48 1	48
$\frac{8}{1}$ 1 8 62 1	62
$\frac{72}{1}$ 1 72 $\frac{1}{}$	
89 1 89 Totals 4	170
Average age (years)	42.50
Totals 4 174 Females	
Average age (years) 43.50 56 1	56

Males and Females

Table 10 (By Age at Time of Death, by Organs and Parts) Continued Total Years HARD PALATE Number of Life Age Males Total Years Number of Life Age Totals Average age (years) 72.50PHARYNX Males 6,530 Totals 58.83 Average age (years) Females Totals 60.50 Average age (years) Females Totals Average age (years) 71.00**OESOPHAGUS** Males Totals 1,945 64.83 Average age (years) STOMACH Males

Males and Females

STOMACH-	-Males (Continue	Total Years	Age	Number	Total Year of Life
Age	Number	of Life	28	1	28
42	6	252	29	î	29
43	5	215	32	9	64
			33	ĩ	33
44	4	176	35	2	70
45		405	36	22	
46	8	368	37		72
47	7	329		2	74
48	7	336	38	1	- 38
49	11	539	39	2	78
50	9	450	40	$2 \\ 2 \\ 2 \\ 4$	80
51	9	459	41	2	82
52	16	832	42		168
53	18	954	44	2	88
54	10	540	45	6	270
55	15	825	46	6	276
56	11	616	47	10	470
57	14	798	48	7	336
58	15	870	49	3	147
59	16	944	50	3 2 3	100
60	17	1.020	51	3	153
61	19	1,159	52	7	364
62	22		53	4	212
		1,364	54	4	
63	14	882	55		216
64	20	1,280	56	4	220
65	22	1,430		10	560
66	17	1,122	57	10	570
67	12	804	58	6	348
68	16	1,088	59	9	531
69	18	1,242	60	9	540
70	7	490	61	9	549
71	3	213	62	14	868
72	6	432	63	9	567
73	6	438	64	12	768
74	8	592	65	15	975
75	5	375	66	9	594
76	6	456	67	11	737
77	7	539	68	17	1,156
78	7	546	69	5	345
79		237	70	10	700
80	2	160	71	8	568
81	3 2 4 2 2	324	72	6	432
82	2	164	73	7	511
83	2	166	74	12	888
84	1	84	75	6	
85	1		76	10	450
86	1	85	77		760
87	1	86	70	3	231
	1	87	78	3	234
88	1	88	79	4	316
89	2	178	80	3	240
T			82	3	246
Totals	464	27,849	83	1	83
Average age	e (years)	60.02	85	3	255
	Females		86	1	86
14	remates		.90	1	90
14	1	14			
24	1	24	Totals	309	18,930
26	1	26	Average ag		61.26

Males and Females

Idversion Total Years Tot	THERE AND	and they make	at time of Deat	in, by Organs a	and Parts) Conti	nued
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	LIVER ANI				Number	Total Years of Life
Number 61 Lle 33 1 38 1 38 36 1 36 40 2 80 37 2 74 42 1 42 38 1 33 44 2 88 40 4 160 46 4 142 43 4 172 47 4 1 47 44 1 44 48 2 96 45 1 445 48 2 96 45 1 47 51 8 400 46 2 92 50 4 200 47 1 47 51 8 400 48 1 48 52 3 156 50 1 50 54 4 216 52 2 104 55 2 110 53 2 106 57 6 342 53 3 166 60 9			Total Years	37	2	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		Number		38	ī	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		1	21		2	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	36	1			2	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	37	2			4	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		1				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		î				
43 4 172 477 1 484 44 1 44 48 2 96 45 1 45 49 2 96 46 2 92 50 4 200 47 1 47 51 8 408 49 2 98 52 3 3 159 50 1 50 54 4 216 51 49 2 98 53 3 159 51 4 216 50 1 50 54 4 216 55 2 110 53 2 106 57 6 342 61 2 224 54 1 54 58 5 290 57 6 342 61 2 122 57 6 342 61 2 4 248 59 6 354 63 65 8 520 60 3 <t< td=""><td></td><td>4</td><td></td><td></td><td></td><td></td></t<>		4				
44 1 44 1 46 2 96 45 1 45 49 2 98 46 2 92 50 4 200 47 1 47 51 8 400 48 1 48 52 3 3 156 50 1 50 54 4 216 51 4 204 55 2 110 52 2 104 56 4 224 54 1 54 58 5 290 55 1 55 59 3 177 56 3 168 60 9 540 57 6 342 61 2 122 58 3 174 62 4 248 59 6 354 63 7 448 61 3 183 65 8 520 63 3 183 66 7		1			4	184
45 1 44 48 2 96 46 2 92 50 4 200 47 1 47 51 8 403 49 2 98 53 3 159 50 1 48 52 3 150 50 1 4204 55 2 110 53 2 204 56 4 214 53 2 106 57 6 312 53 2 106 57 6 312 54 1 54 58 5 290 3 177 56 3 168 60 9 544 2448 59 53 177 56 6 3135 5342 61 2 4248 59 544 2448 59 564 2128 66 66 6396 67 4 266		4			1	47
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		1			2	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		1		49	2	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		2		50		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		1	47	51		
49 2 98 53 3 159 50 1 50 54 4 216 51 4 204 55 2 110 52 2 104 56 4 224 53 2 106 57 6 342 54 1 54 58 5 290 55 1 55 59 3 177 57 6 342 61 2 1222 58 3 174 62 4 248 60 3 180 64 7 448 61 3 180 64 7 448 61 3 180 67 4 268 62 3 186 66 6 396 61 2 128 68 4 272 3216 67 4 268	48	1	48		2	
50 1 50 54 4 216 51 4 204 55 2 110 53 2 104 56 4 224 53 2 106 57 6 342 54 1 55 59 3 177 56 3 168 60 9 544 55 1 55 59 3 177 56 3 168 60 9 544 59 6 354 63 5 315 57 6 342 61 2 122 59 6 354 63 5 315 60 3 180 64 7 448 61 3 183 65 8 520 62 3 189 67 4 268 63 3 189 67 4 268 64 2 138 73 3 219	49	2				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	50	ī				
52 2 104 56 2 124 53 2 106 57 6 342 54 1 54 58 5 290 55 1 55 59 3 177 56 3 168 60 9 540 57 6 342 61 2 122 58 3 174 62 4 248 59 6 354 63 5 315 61 3 183 65 8 520 62 3 186 66 6 396 63 3 189 67 4 268 64 2 128 68 4 272 65 1 65 69 7 483 67 4 268 71 2 142 68 1 23 3 216 3 69 2 138 73 3 216 <t< td=""><td></td><td>4</td><td></td><td></td><td></td><td></td></t<>		4				
53 2 106 57 6 342 54 1 54 58 5 290 55 1 55 59 3 177 56 3 168 60 9 540 57 6 342 61 2 122 58 3 174 62 4 248 59 6 354 63 5 315 60 3 180 64 7 448 61 3 183 65 8 520 62 3 186 66 6 396 61 3 189 67 4 268 64 2 128 66 4 272 65 1 65 69 7 483 66 6 3966 70 2 140 67 4 268 71 2					2	
54 1 54 56 56 56 59 3 177 56 3 168 60 9 540 57 6 342 61 2 1222 58 3 174 62 4 248 59 6 354 63 5 315 60 3 180 64 7 443 61 3 186 66 6 396 62 3 186 66 6 396 63 3 189 67 4 268 64 2 128 68 4 272 2140 67 4 268 71 2 140 67 4 268 71 2 140 67 4 268 71 2 140 67 4 268 71 2 140 <tr< td=""><td></td><td>2</td><td></td><td></td><td></td><td>224</td></tr<>		2				224
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					6	342
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		*			5	290
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				59	3	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			168	60	9	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			342		2	199
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	58	3				940
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	59					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					2	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		3				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		2				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		3				396
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		3			-	268
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		2				272
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				69	7	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			396	70	2	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		4	268	71	2	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	68	1	68		3	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	69	2		73	3	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	70	3			5	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		5				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		3			4	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	74				1	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		0	222		2	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	77	1			3	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		3	231		1	81
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		1			2	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		1			1	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		2		84	1	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	84	1	84		2	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$					2	
Average age (years) 59.28 Totals 159 9.629 6 1 6 Average age (years) 60.56 29 1 29 Average age (years) 60.56 31 1 31 MESENTERY AND PERITONEUM 32 1 32 Males 34 1 34 13 1	Totals	102	6.047		ĩ	
Females Totals 159 9.629 6 1 6 Average age (years) 60.56 29 1 29 MESENTERY AND PERITONEUM 31 1 31 Males 32 1 32 Males 34 1 34 13 1 13			59.28	01	1	01
6 1 6 Average age (years) 60.56 29 1 29 MESENTERY AND PERITONEUM 31 1 31 Males 32 1 32 13 1 13	in our age ag		07140	Totala	150	0.000
29 1 29 31 1 31 32 1 32 34 1 34 1 34 13 1 34 13		Females				
31 1 31 MESENTERY AND PERITONEUM 32 1 32 Males 34 1 34 13 1 13		1		Average ag	(years)	60.56
31 1 31 MESENTERY AND PERITONEUM 32 1 32 Males 34 1 34 13 1 13		1	29	MECENTRO	V AND DODIES	
32 1 32 Males 34 1 34 13 1 13	31	1		MESENTER	Y AND PERITO	NEUM
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		1			Malas	
10		1		13		10
1 33 30 1 30 1 38		1				
	00	1	55 1	30	1	38

 Table 10 (By Age at Time of Death, by Organs and Parts) Continued

 IVER AND GALL BLADDER

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Males and Females

	ble 10 (by Age at		ii, by Organs a	ind raits) com	Total Years
MESENTE	RY AND PERITON		Age	Number	of Life
	Males (Continued)	Total Years	58	3	174
Age	Number	of Life	59	5	295
40	1	40	60	5	300
44	1	44	61	6	366
47	1	47	62	2	124
51	1	51	63	3	189
52	1	52	64	4	256
65	1	65	65	8	520
			66	4	264
Totals	8	350	67	3	181
Average	age (years)	43.75	68	3	204
	Females		69	3	207
24	1	24	70	4	280
34	1	34	71	4	284
40	1	40	72	3	146
44	1	44	73	0	216
48	ĩ	48	74	23	222
51	ĩ	51	75	3	
52	ĵ.	52	76	3	225
56	2	112	70	0	228
62	ī	62		1	77
65	î	65	78	1	78
66 .	î	66	80	3	240
67	î	67	81	4	324
01	I	01	84	1	84
Totals	13	665	86	1	86
	age (years)	51.15	(T) . 1	110	0.000
Average	age (years)	51.15	Totals	142	8,271
INTESTIN	IES		Average a	ige (years)	58.25
	Males			Females	
8	1	8	23	. 1	23
20	1	20	27	2	54
22	1	22	28	2	56
26	1	26	29	2	58
27	1	27	31	1	31
29	ĩ	29	32	1	32
31	2	62	34	1	34
32	ī	32	36	2	72
33	3	99	37	1	
34	1	34	38	2	37 76
35 37	ĩ	35	40	23	120
37	ĩ	37	$\frac{42}{43}$.	3	126
39	i	39	43	1	43
41	î	41	44		176
$\frac{41}{42}$	3	126	45	2	90
44	3 5	220	46		92
45	2	90	47	5	235
46	2 1 3 2 3 3 3 8	46	48	3	144
- 47	2	141	50	1	50
48	3	96	51	6	
49	2	147	51	0	306 52
50	2	156	52	4	02
52 54	3		53 54	5	212 270 165
55 55	3	162	54	5	270
55		440	55	3	105
56 57	4	224	56	3 2 3	112 171
57	6	342	57	3	171

Males and Females

INTERTINE	C D (Dy Age	at time of Deat	h, by Organs a	and Parts) Conti	nued
INTESTINES	S—Females (Cor	ntinued)		111	Total Years
Age	Number	Total Years of Life	Age	Number	of Life
58	6	348	62	4	248
59	3	177	64	2	128
60	5	300	65	3	195
61	3		66	4	264
62	6	183	67	3	201
63	0	372	68	2	136
64	3	189	69	4	276
65	5	320	70	5	350
	7	455	73	1	73
66	3	198	74	3	222
67	3	201	76	1	76
68	4	272	77	1	77
69	6	414	78	1	78
70	6	420	80	2	160
71	2 5	142	81	ĩ	81
72	5	360	87	î	87
73	1	73			01
74	6	444	Totals	78	4,729
75	1	75	Average ag	re (vears)	60.63
76	2	152	interage as		00.05
77	$\frac{2}{2}$	154		Females	
78	1	78	27	1	27
80	4	320	33	1	33
81	i	81	35	2	70
82	3	246	36	2	72
83	2	166	37	1	37
84	ĩ	84	40	3	120
94	1	94	42	1	42
	1	94	43	i	43
Totals	155	0.155	44	ĩ	44
Average age		9,155	45	ĩ	45
merage age	(years)	59.06	49	î	49
			50	2	100
RECTUM ANI	D ANDS		51	3	153
ALGION AN			52	2	104
	Males		53	ĩ	53
21	1	21	54	î	54
27	1	27	55	5	275
41	1	41	56	3	
43	1	43	56 57	1	168 57
45	1	45	58	3	174
46	1	46	60	3	
47	ĩ	47	61	0	180
48	î	48	62	1	61
49	î	49	63	1	62
50	2	100		2	126
51	ĩ	51	64	1	64
52	6	219	65	3	195
53	4	312	66 67	1	66
54	1	212	07	$\frac{1}{2}$ $\frac{2}{1}$	134
55	1	54	69	2	138
	2	110	70		70
56 57	3	168	76 77	2	152
	2 3 2 5	114	11	1	152 77
58		290	79	1	79
59	1	59	80	1	80
60	4	240	81	2	162

Males and Females

RECTUM AN	D ANUS_		1		Total Years
	males (Continued)		Age	Number	of Life
		Total Years	40	12	480
Age	Number	of Life	41	10	410
82	1	82	42	ĩĭ	462
85	1	85	43	6	258
86	2	172	44	7	308
			45	ģ	
Totals	64	3,705	46	11	405
Average age		57.89	47	9	506
	(Jeans)	01.05	48		423
OVARY			49	14	672
	Females		50	13	637
32	1	32	51	12	600
35	1	35	52	11	561
37	1	37		10	520
38	2	76	53	4	212
39	2	78	54	11	594
40	1	40	55	6	330
43	1	43	56	13	728
44	2	88	57	7	399
45	3	135	58	9	522
47	1	47	59	10	590
48	1	48	60	16	960
49	3	147	61	5	305
50	3	150	62	11	682
51	1	51	63	12	756
52	î	52	64	6	384
55	î	55	65	9	585
56	î	56	66	8	528
58	î	58	67	7	469
60	6	360	68	3	204
62	2	124	69	3	207
64	ã.	256	70	2	140
65	1	65	71	4	284
67	î	67	72	23	144
68	1	68	74	3	222
73	2		75	3	225
82	1	146	76	3	228
84	1	82	77	5	385
	1	84	78	4	
Totals	46	9.490	79	2	312 158
Average age	(vears)	2,480	80	ĩ	80
	(years)	53.91	81	2	
UTERUS		i	85	ĩ	162
	Females			1	85
25	1	07	Totals	350	10.005
26	1	25			18,625
30	2	26	Average age	(years)	53.21
31	3	90	VULVA AND	VACINA	
32	1	31	and and		
33	4	128		Females	
34	2 2 6	66	36	1	36
35	2	68	50	1	50
36		210	52	1	52
37	8	288	53	1	53
38	4	148	54	1	54
30 39	6 5	228	56	2	112
		195 1	60	77	A . A . aut

Males and Females

VULVA AN	D VAGINA-(C			N	Total Year
Age	Number	Total Years of Life	Age 74	Number	of Life
68	Tunner		75	2	148
72	1	68		1	75
14	1	72	76	3	228
T 1	3.0		77	4	308
Totals	10	557	78	2	156
Average age	(years)	55.70	79	4	316
DE LOR			81	2	162
REAST			82	1	82
	Females		83	1	83
26	4	104	84	1	84
28	2	56	87	1	87
29	1	29	89	1	89
30	2	60			
31	1	31	Totals	269	14,666
32	î	32	Average age	e (years)	54.52
34	3	102			
35	4	140	SKIN		
36	4	144		Males	
37	4	148	21	1	21
38	4	152	41	î	41
39	3	117	52	1	52
	9		54	1	54
40		360	58	1	58
41	4	164	66	1	
42	6	252	80	1	
43	5	215	84	1	80
44	6	264	0.1	1	84
45	3	135	Totals	0	456
46	7	322		8	456
47	10	470	Average age		57.00
48	6	288	122	Females	
49	6	294	51	1	51
50	8	400	54	1	54
51	8	408	61	1	61
52	10	520	76	1	76
53	6	318	84	1	84
54	11	594	89	1	89
55	8	440			
56	8 7 7	392	Totals	6	415
57	7	399	Average age	e (years)	69.17
58	10 5 8	580			
59	5	295	LARYNX		
60	8	480		Males	
61	6 5	366	24	1	24
62	5	310	40	2	80
63	11	693	43	1	43
64	$ \begin{array}{c} 11 \\ 7 \\ 5 \\ 5 \\ 3 \\ 2 \\ 2 \end{array} $	448	46	1	46
65	7	455	47	2	94
66	5	330	48	1	48
67	5	335	50	2	100
68	3	204	51	2 2	102
69	2	138	53	1	53
70	2	140	54	î	54
70	ĩ	71	55	î	55
72	4	288	56	î	56
73	5	365	57	2	114

Males and Females

LARYNX-M	ales (Continued)		N	Total Years
	N 1	Total Years	Age 61	Number	of Life
Age	Number	of Life		2	122
59	1	59	62	1	62
60	2	120	64	1	64
61	1	61	65	1	65
62	1	62	66	3	198
64	1	64	67	4	268
65	2	130	69	1	69
66	1	66	74	2	148
67	4	268	79	ĩ	79
68	9	136	15	1	12
72	1	72	Totals	50	2,641
73	1	292			
75	1		Average age	e (year)	52.82
70	1	75		Females	
78	1	78	3	1	3
79	2	158	18	1	
200				1	18
Totals	42	2,510	33	1	33
Average age	(year)	59.76	40	1	40
			42	1	42
	Females		45	- 1	45
29	1	29	47	1	47
35	1	35	51	1	51
45	1	45	52	1	52
62	1	62	53	9	106
72	î	72	57	ĩ	57
12	1	12	59	1	
Totals	5	243		1	59
	5		60	1	60
Average age	(years)	48.60	61	1	61
			62	3	186
			63	1	63
			64	1	64
LUNGS AND	PLEURA		70	1	70
	11-1		71	1	71
	Males		74	î	74
28	1	28			
31	1	31	Totals	23	1 202
32	1	32			1,202
35	2	70	Average age	(years)	52.26
36	1	36	PANCREAS		
37	2	74	TANGREAD	Malas	
39	$\frac{2}{1}$	39	2.4	Males	
40	1	40	34	1	34
42	1	40	35	1	35
	1	42	36	2	72
43	2	86	38	1	38
45	2	90	42	· 2	84
46	$2 \\ 2 \\ 1 \\ 2 \\ 1 \\ 1$	46	43	$ \begin{array}{c} 1 \\ 2 \\ 1 \\ 2 \\ 2 \\ 1 \\ 1 \end{array} $	86
47	2	94	44	1	44
50	1	50	45	1	45
51	5	255	46	î	46
52	1	52	47	î	
53	2	106	48	1	47
54	ĩ	54			48
55	1	54	49	3	147
56	1	55	50	1	50
57	1	56	51	2	102
57	22	114	52	$ \begin{array}{c} 3 \\ 1 \\ 2 \\ 2 \\ 3 \end{array} $	104
58	2	116	54	3	162

Males and Females

Tabl	e 10 (By Age	at Time of Deat	h, by Organs a	nd Parts) Conti	nued
PANCREAS-	-Males (Contin	ued)	KIDNEYS		
Age	Number	Total Years of Life		Males	
55	1	55			Total Years
56	î	56	Age	Number	of Life
57	5	285	1	1	1
59	1	59	$\frac{2}{3}$	1	2
60	2	120	3	1	3
61	ĩ	61	6	1	2 3 6 22 27
62	2	124	22	1	22
63	ĩ	63	27	1	27
64	4	256	31	1	31
65	2	130	33	1	33
66	3	198	38	1	38
67	2	134	39	1	39
68	2	136	40	1	40
69	ĩ	69	42	1	42
70	î	70	43	1	43
73	2	146	44	1	44
74	ĩ	74	47	1	47
78	1	78	49	3	147
10	_1	10	50	2	100
Totals	58	3,258	52	2	104
			53	1	53
Average age	(years)	56.17	54	3	162
			55	1	55
	Females		56	î	56
	remates		57	ĩ	57
41	1	41	58	î	58
47	1	47	60	2	120
48	1	48	62		124
49	1	49	63	23	189
50	1	50	65	2	130
51	1	51	74	2	148
53	2	106	78	ĩ	78
54	1	54			
55	3	165	Totals	42	1,999
56	1	56	Average ag		
57	1	57	Average ag	e (years)	47.60
59	1	59			
60	$\frac{2}{2}$	120		r 1	
62	2	124		Females	
63	1	63	37	1	37
64	4	256	42	1	42
65	5	325	44	1	44
66	5 2 2 1	132	45	1	45
67	2	134	48	1	48
68	1	68	51	2	102
69	1	69	52	$^{2}_{1}$	52
72	3 3 2	216	55		110
73	3	219	56	$\frac{2}{1}$	56
75	2	150	57	2	114
76	1	76	61	2 1	61
78	1	78	62	1	62
82	1	82	63	1	63
1227 VA2N			66	î	66
Totals	46	2,895	68	î	68
Average age	(years)	62.93	70	1	70
		1000000000	3000	822	

Males and Females

RIDALIS	Females (Contin	uea)	1		Total Ye
Age	Number	Total Years of Life	Age	Number	of Life
71	Number		44	1	44
	1	71	45	1	45
78	1	78	46	1	46
			49	2	98
Totals	21	1,189	52	3	156
Average age	e (years)	56.62	53	1	53
			54	6	324
ROSTATE	2.200		55	2	110
	Males		56	ĩ	
22	1	22	57	1	56
41	î	41	58	2	114
45	1	45		3	174
49	1		59	2	118
	1	49	60	1	60
50	1	50	61	$\frac{2}{7}$	122
51	1	51	62	7	434
52	1	52	63	2	126
54	1	54	64	$\frac{2}{4}$	
55	2	110	65	5	256
56	3	168	66	0	325
57	2	114		3	198
58	1	58	67	5	335
59	1		68	3	204
	2	118	69	6	414
60	2 2 5	120	70	4	280
61	2	122	71	3	213
62	5	310	72	3	216
63	1	63	73	2	146
64	2	128	74	3	
65	4	260	75	1	222
66	1	66	76	1	75
67	4	268	77	1	76
68	6	408		4	308
69	3	207	78	1	78
70	2		79	1	79
71		140	80	5	400
70	6	426	81	1	81
72	3	216	82	2	164
73	3	219	83	ī	83
74	1	74	86	î	
75	3	225	88	1	86
76	4	304	00	1	88
77	6	462	Totals	104	
78	6 2 2	156		104	6,671
79	2	158	Average ag	e (years)	64.14
80	ĩ	80			
81	3 *			Females	
82	1	243	38 .	1	20
83	1	82	39	1	38
03	1	83	42	1	39
T . 1			45	1	42
Totals	86	5,752		1	45
Average age	(years)	66.88	46	1	46
LADDER		10.000 (C	50	1	50
LADDER	14.1		51	2	102
96	Males	1000	53	1	53
26	1	26	54	. 3	
36	2 1	72	56	2	162
40		40	57	2	112 57
42	3				

Table 10 (By Age at Time of Death, by Organs and Parts) Continued

85

Males and Females

BLADDEK-F	emales (Conti	nued)	Acc	North	Total Yes
Age	Number	Total Years of Life	Age	Number	of Life
59	Trumber		22	1	22
	1	59	24	1	24
60	4	240	31	1	31
62	3	186	32	1	32
63	1	63	37	2	74
65	3	195	44	1	44
66	2	132	45	1	45
67	1	67	46	2	92
68	1	68	47	ĩ	47
69	1	69	50	2	100
70	2	140	52	1	52
71	4	284	53	1	
72	1	72		1	53
73	1		54	2 2 2	108
74	1	73	55	2	110
	1	74	57	2	114
76	2	152	58	1	58
77	1	77	59	1	59
80	1	80	62	2	124
81	2	162	64	1	64
			65	1	65
Totals	48	2,997	66	1	66
Average age (y	(ears)	62.44	70	1	70
menage age ()	cars)	02. Pr	71	î	71
			72	î	72
RAIN	1.00		77	i	77
	Males		81	1	81
16	1	16	01	1	01
22	î	22	Totals	36	1,783
34	î	34			
42	î	42	Average a	ge (years)	49.53
48	î	48			
53	1	53		Females	
33	1	55	2	1	2
			2 3	î	3
Totals	6	215	11	1	11
Average age (y	(ears)	35.83	13	1	13
interage age ()	curcy	00100		1	
	Females		16	1	16
19	1	10	20	1	20
	1	19	29	1	29
36	1	36	30	1	30
37	1	37	32	1	32
46	1	46	36	1	36
51 52 59 77	1	51	37	1	37
52	1	52	40	. 1	40
59	1	59	41	1	41
77	1	77	46	1	46
	1000 C		47	î	47
7F . 1		0.77	50	2	100
Totals	8	377	52	ĩ	52
Average age (y	ears)	47.13	54	0	108
0.00-0			. 56	2 2	100
ONES			· 56 57	2	112
CVCLOSE CO	Males		57	1	57
(in the s		58	1	58
6	1	6	60	3 3 3	180
7 15	1	7 15	62	3	186
			63		189

Males and Females

Age 80 GENERAL	Number Total Ye of Life Females 1 80
80	
	1 80
	1 00
GENERAL	
GENERAL	
OBITERAL	
	14.7
	Males
48	1 48
49	1 49
52	1 52
54	1 54
58	2 116
60	1 60
63	1 63
75	1 75
Totals	9 517
1	
Average age (yea	ars) 57.44
	Females
21	1 21
23	1 23
34	1 34
35	2 70
45	2 90
46	1 46
48	1 48
56	1 56
57	1 57
63	1 63
67	
70	1 67
	1 70
	2 148
	1 76
00	1 80
Totals	18 949
Average and from	
	74 76 80

Table 10 (By Age at Time of Death, by Organs and Parts) Continued

Table 11

BY KNOWN DURATION OF DISEASE IN MONTHS, ACCORDING TO ORGANS AND PARTS

	a o onomio	AND TARIS		
			Females	
Males			N	
Number	Aggregate	36	l	Aggregate 36
1	10	60	1	60
1	18			
1	38		2	96
1	60		onths)	48.00
1	84	TONGUE		
			Males	
5		6	3	18
onths)	42.00	8	2	16
	Males Number 1 1 1 1 1 1 5 onths)	Males Number Aggregate 1 10 1 18 1 38 1 60 1 84 5 210	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

Males and Females

	les (Continued))	Duration (MONTHS)	Number	Aggregate
Duration (MONTHS)	Number	Aggregate	24	4	96
9	1	9	42	1	42
10	1	10	72	1	44
	1 7		Totals	22	202
12	1	84		33	392
13	1	13	Average (mor	nths)	11.88
14	$\frac{2}{2}$	28	Unknown	4	
18	2	36			
19	1	19	Total total	. 37	
20	1	20		Females	
24		72	4	2	8
28	2	56	12	2	24
32	2	64	18	1	18
Totals	28	445	Totals	5	50
Average (mor		15.89	Average (mor		10.00
Unknown	2		and a state of the state of the state of the		
Chkhown			THROAT		
Total total	30			Males	
Total total			5	$\frac{2}{2}$	10
	Females		6	2	12
6	1	6	8	1	8
12	1	12	16	1	16
18	2	36	24	1	24
Totals	4	54	Totals	7	70
Average (mon	ths)	13.50	Average (mor	nths)	10.00
Trenge (mon		10100	Unknown	1	
MOUTH			Total total	8	
	Males		Total total	Females	
12	1	12	14	1	14
24	î	24		1	1.4
36	î	36	NECK		
50	1	00		Males	
Totals	3	72	2	3	6
		24.00	2 3	2	6
Average (mon	Esperates	24.00	5	2	10
-	Females	- 1		1	6
7	1	7	6 7	3	21
			8	2	16
JAW		1	11	1	11
J.1.0	Males	1	12	3	36
	marco			2	36
1	1	1	18	2	
$\frac{2}{4}$	1	2	36	1	36
4	1	4			104
5	4	20	Totals	20	184
6	3	18	Average (mon	ths)	9.20
7 8	1	7	Unknown	1	
8	2	16			
9	2	18	Total total	21	
10	1	10		Females	
11	i	11	2	1	2
12	8	96	3	1	2 3
15	1	15	2 3 5 8	2	10
	2	36	8	$\tilde{2}$	16
18	4	50 1	0	2	10

Males and Females

Duration NECK-Femi	ales (Continued)		Duration (MONTHS)	Number	Aggregate
(MONTHS)	Number	Aggregate	EAR		
14	1	14		Males	
24	2	48	12	1	12
156	1	156	14	1	14
			36	1	36
Totals	10	249	50	1	- 30
Average (n		24.90	Totals	3	62
		21.70	Average (m		20.67
FACE			Average (in		20.04
	Males			Females	
6	1	6	4	1	4
8	1	8	12	1	12
12	1	12	24	1	24
24	1	24			
36	1	36	Totals	3	40
48	î	48	Average (m	onths)	13.33
72	î	72	i di si		
204	î	204	UP (D		
204	1	204	HEAD	22222	
Totals	8	410		Males	
			2	1	2
Average (m		51.25			
-	Females		TONSILS		
5	1	5	TOHOILD	Males	
10	1	10	3	nates	2
12	1	12	6	1	3
18	1	18		1	6
24	1	24	30	1	30
36	2	72			
108	1	108	Totals	3	39
			Average (m	onths)	13.00
Totals	8	249		Females	
Average (m		31.13	2	1	2
	tonine,	01.10	10	î	10
EYES			10	1	10
	Males		Totals	2	10
12	1	12			12
	Females	0.0317435	Average (me	onths)	6.00
6	1	6	CHEEK		
6	1	6	UNEEK	11.1	
9	î	9	1	Males	
240	î	240	6	1	6
		240	12	1	12
Totals	4	261	24	2	48
Average (m	onthe)		125 125		
	ontris)	65.25	Totals	4	66
NOSE			Average (mo	onths)	16.50
	Males			Females	
24	1	24	192	l	109
	Females			1	192
2	1	2	HARD PALA	TE	
24	î	24	HARD FALA		
48	1	48	0	Males	
66	1		2	1	2
	1	66	18	1	18
Totals	4	140			
Average (m	4	$ 140 \\ 35.00 $	Totals	2	20
	CITE IN THE REPORT OF THE REPORT		Average (mo		10.00

Males and Females

Table 11	(By Known	Duration of Disease in Months, According to C)rgans
		and Parts) Continued	

. PHARYNX			Duration (MONTHS)	Number	
200	Males		12	Tumber	Aggregate 12
Duration (MONTHS)	Number		13	1	
	Number	Aggregate		2	26
3	1	3	14	1	14
4	1	4	15	2	30
12	2	24	18	1	18
16	1	16	19	1	19
	-	Automation and	24	3	72
Totals	5	47	48	1	48
Average (mo		9.40			
	intits)	9.40	Totals	29	337
Unknown	1		Average (mor		11.62
			Labarage (mor		11.04
Total total	6		Unknown	- 1	
	Females				
3	1	3	Total total	30	
18	1	18	STOMACH		
10	1	10	STUMACH	11.1	
m 1				Males	
Totals	2	21	1	8	8
Average (month	hs)	10.50	2 3 4	9	18
			3	27	81
OESOPHAGU.			4	16	64
	Males	- N/	5	9	45
1	1	1	6	87	522
	2	4	7	8	56
2 3 4 5	2 5	15			272
4	6	24	8	34	
2	6	30	9	12	108
5			10	17	170
6	27	162	11	5	55
7	4	28	12	90	1,080
8	3	24	13	3	39
9	4	36	14	2	28
10	5	50	15	$^{2}_{1}$	15
11	1	11	16	5	80
12	21	252		1	17
13	3	39	17		
		28	18	25	450
14	2 2 3		20	2	40
16	2	32	24	48	1,152
18		54	25	1	25
24	3	72	26	2	52
27	1	27	27	2	54
31	1	31	28	1	28
35	ĩ	35	36	11	396
48	2	96		11	39
78	1	78	39	1	
10	1	10	42	2	84
12 . 1	7.04	1.100	48	7	336
Totals	104	1,129	60	4	240
Average (mo	nths)	10.86	62	1	62
	Females		168	1	168
1	1	1	180	1	180
3	3	9			
0	0	4	Totals	443	5,964
4	1				13.46
6	8	48	Average (mor	all al	10.40
8	2	16	Unknown	21	
9	1	9			
11	1	11	Total total	464	

Males and Females

Table 11 (By	Known Duration of Disease in Months, Ac	ccording to Organs
	and Parts) Continued	

STOMACH (C	ontinued) Females		Duration (MONTHS)	Number	Aggregate
Duration			18	3	54
(MONTHS)	Number	Aggregate	24	13	312
1	4	4	27	10	27
2	5	10	29	1	29
3	11	33	30	1	
4	14	56	32	1	30
5	9	45		1	32
6	44	264	36	2	72
7	7	. 49	42	1	42
8	12		48	1	48
9		96		-	
10	13	117	Totals	94	1,114
	. 5	50	Average (mo		11.85
11	4	44	Unknown	8	
12	68	816	and a second second		
13	3	39	Total total	102	
14	12	168		Females	
15	7.	105			0
18	14	252	1	2	2
19	5	95	2 3	9	18
20	1	20		7	21
22	1	22	4	7	28
24	31	744	5	4	20
27		54	6	25	150
28	$\frac{2}{3}$	84	7	$\frac{3}{7}$	21
29	1	29	8	7	56
30		60	9	3	27
36	$\frac{2}{7}$	252	10	4	40
43	í		12	30	360
48	2	43	13	2	26
60	3	96	14	4	56
72		180	15	1	15
	1	72	18	11	198
108	1	108	20	1	20
(T) . 1			20	1	
Totals	293	4,007		15	22
Average (mor		13.68	24	15	360
Unknown	16		27	1	27
			36	4	144
Total total	309		48	2	96
LIVED IND C			60	3	180
LIVER AND G.		8	96	1	-96
	Males		225	1	225
1	1	1			
2	6	12	Totals	148	2,208
3	15		Average (mor	nths)	14.92
4	13	45	Unknown	11	
6		32		-	
7	12	72 7	Total total	159	
7 8	. 1	7			
9	4	32	MESENTERY	AND DEDITO	VEUM
	3	27	MESENTERI .		VLUM
10	1	10		Males	
11	$\frac{2}{15}$	22	3	1	3
12		180	5	ĩ	5
13	1	13	6	2	12
15	1	15	8	ĩ	8
		1.2.1.2		*	0

Males and Females

MESENTERY Males (Con	AND PERITO! tinued)	NEUM-	Duration (MONTHS)	Number	Aggregate
Duration				Females	
(MONTHS)	Number	Aggregate	1	5	5
15	1	15	2	6	12
20	1	20	3	3	9
24	1	24	4	5	20
			5	10	50
Totals	8	87	6	21	126
Average (m	onths)	10.88	7 .	7	49
	Females		8	3 2	24
0	1 cintares	0	9		18
23	1	23	10	- 4	40
3	1	3	11	2	22
6 7	3	18	12	30	360
1	1	7	14	2	28
9	1	9	15	1	15
10	2	20	18	12	216
11	1	11	21	2	42
12	1	12	24	16	384
24	1	24	30	2	60
48	1	48	36	6	216
-			38	1	38
Totals	13	154	42	1	42
Average (me	onths)	11.85	60	1	60
			84	1	84
INTESTINES			86	1	86
	Males		132	1	132
1	3	3	Totals	145	2,138
2	6	12	Average (mor		14.74
3	6	18	Unknown	10	17.17
4		20	Chkhown	10	
5	5 2	10	Total total	165	
6	25	150	Total total	105	
7	4	28.	DECTURE ON	D INTIC	
8	10	80	RECTUM ANI		
9	5	45		Males	
10	3	30	1	1	1
11	ĩ	11	2	1	2
12	31	372	3	3	9
14	1	14	4	3	12
15	î	15	6	11	66
16	î	16	6 7 8	1	7
17	ĩ	17	8	2 2 2	16
18	4	72	9	2	18
24	4	96	10	2	20
30	i	30	11	1	11
36	5	180	12	16 .	192
99	1	99	14	1	14
10			17	1	17
Totals	120	1,318	18	7	126
Average (m		10.98	22	1	22
Unknown	22	2.010.0	24	14	336
Challonn			30	23	60
Total total	142		36	3	108

Males and Females

RECTUM ANI	D ANUS-Mal		Duration (MONTHS)	Number	Aggregate
(Continued)			48		
(MONTHS)	Number	Aggregate	54	2	96
42		84	66	1	54
48	$\frac{2}{2}$	96	00	1	66
51	ĩ	51	Totals	45	690
		51	Average (mo		
Totals	77	1,268	Unknown	1	15.33
Average (mor		16.47	CHKHOWH	1	
Unknown	1	10.11	Total total	46	
Tables			UTERUS		
Total total	78 Females		er meo	Females	
9	1 cindics	9	1	5	5
$\frac{2}{3}$	2	2 6	2 3	4	8
4	1	4	3	9	27
6	10		4	7	28
8	6	60 48	. 5	13	65
11	2		6	36	216
12	11	22	7	3	21
13	11	132	8	10	80
13	1	13	9	10	90
17	2	28	10	6	60
181	1	17	11	3	33
	6	108	12	81	972
24 25	9	216	13	1	13
32	1	25	14	4	56
36	1	32	15	4	60
48	3	108	16	4	64
	2	96	17	2	34
60 63	1	60	18	31	558
72	1	63	19	1	19
12	1	72	20	1	20
Tatal	(2)		20	2	42
Totals	62	1,112	24	47	1,128
Average (mon		17.94	25	-11	50
Unknown	2		27	$\frac{2}{2}$	54
Total total			29 .	1	29
	64		30	3	29 90
OVARY			32	1	32
	Females		36	12	432
1	1	1	37	1	37
2	2	4	42	2	84
2 3 4	2 5	15	48	4	192
	2	8	60	8	480
6	5	30	64	1	64
7 8	1	7	72	i	72
	2	16	96	1	
9	2	18	253	1	96
10	1	10	300	1	253
12	8	96	000	T	300
13	2	26	Totals	325	5.04
16	1	16	Average (mon	(he)	5,864
18	1	18	Unknown		18.04
24	7	168	CHAROWI	25	
41	1	41	Total total	350	
			The second se	330	

Males and Females

Table 11 (By	Known Duration of Disease in Months, Acc	ording to Organs
	and Parts) Continued	

VULVA ANI) VAGINA Females		Duration (MONTUS)	Number	Aggregate
Duration		1000	120	4	480
(months)	Number	Aggregate	156	1	156
4	1	4	168	1	168
5	1	5	24460103.04		
12	3	36	Totals	258	7,270
16	1	16	Average (mon	ths)	28.18
18	3	54	Unknown	11	
24	1	24			
			Total total	269	
Totals	10	139			
Average (n		13.90	SKIN		
	iontitio7			Males	
BREAST			3	1	3
	Females		4	1	4
1	2	$\frac{2}{2}$	6	2	12
	1	2	8	1	8
3	4	12	18	2	36
2 3 5	1	$\frac{12}{5}$.	72	ĩ	72
6	12	72			
6 7 8	2	14	Totals	8	135
0	6	48	Average (mon		16.88
9	4	36	Average (mon	Females	10,00
10	3	30	6	1 emaies	6
	5	55	8	2	16
11		528		2	10
12	44		10	1	10
13	3	39	12	1	
14	1	14	30	1	30
15	4	60			
16	3	48	Totals	6	74
17	4	68	Average (mo)	nths)	12.33
18	17	306	LADVAV		
19	$\frac{2}{2}$	38	LARYNX	Males	
20	2	40		Mates	0
21	1	21	2	1	$\frac{2}{12}$
23	1	23	3	4	12
24	56	1,344	4	2	8
25	1	25	5	1	5
26	3	78	6	9	54
27	1	27	8	4	32
30	4	120	9	2	18
32	2	64	10	1	10
34	ī	34	12	4	48
36	20	720	16	1	16
42	5	210	18	1	18
48	12	576	24	3	72
	12	50	36	1	36
50	1	51	48	3	144
51		162	72	ï	72
54	3		96	i	96
60	7	420	50	-	
72	3	216	Totals	39	643
75	1	75			16.49
84	3	252	Average (mo	nuns)	10.49
89	1	89	Unknown	3	
96	4	384	(0) 2 2		
108	1	108	Total total	42	

Males and Females

Table 11 (By	Known	Duration of	Disease in	Months,	According to Organs
		and Par	ts) Continu	ued	

LARYNX (C	ontinued) Females		Duration (MONTHS)	Number	Aggregate
Duration			5	6	30
(MONTHS)	Number	Aggregate	6	12	72
4	1	4	7	1	7
5	1	5	8	5	40
10	1	10	11		22
18	1	18	12	28	96
36	1	36	14	1	14
			18	î	18
Totals	5	73	24	5	120
Average (m		14.60	72	1	72
LUNGS AND	PLEURA Males		Totals Average (mor	54 nths)	533 9.87
	mates			Females	
1	1	1	2	1	2
2 3 4 5 6	2 8 5	4	23		15
3	8	24	4	5	15
4	5	20	6		20
5	4	20	8	10	. 60
	11	66		1	8
7	2	14	10	- 4	40
8	1	8	12	9	108
9	1	9	15	1	15
12	9	108	17	1	17
20	1	20	18	1	18
24	2	48	24	23	48
30	1	30	36	3	108
34	1	34	120	1	120
48	1	48			
			Totals	44	579
Totals	50	454	Average (mon	ths)	13.16
Average (me	onths)	9.08	Unknown	- 2	
	Females		Total total	46	
1	1	1			
2	1	2	NUMBER OF STREET, STRE		
3	2	2 6	KIDNEYS		
4	2	8		Males	
6	7	42	2	1	2
8	3	24	$\frac{2}{3}$	5	$\begin{array}{c}2\\15\\12\end{array}$
9	1	9	4	5 3	12
12	4	48	5	ĭ	5
16	1	16	6	6	36
24	1	24	8	3	24
			9	2	18
Totals	23	180	10	1	10
Average (me	onths)	7.83	11	î	10
	1911 84 500		12	4	48
D INCOR IS			14	9	
PANCREAS			15	1	28
	Males		16	1	15
2	1	2	18	1	16
2 3	4	2 12 28	22	1	18
4	7	28	24	2	22 48
100.00			2.4	2	48

Males and Females

	ales (Continued))	Duration (MONTHS)	Number	Aggregate
Duration (MONTHS)	Number	Aggregate	72	J	
30	Tumber		120	1	72
31	1	30	120	1	120
48	2	31	Totals	81	1.464
OF	2	96	Average (mor		$1,464 \\ 18.07$
Totals	39	485	Unknown	5	10.07
Average (mon			CHKHOWH	5	
Unknown	3	12.44	Total total	86	
CHKHOWH	3		Total total	00	
Total total	42		BLADDER		
				Males	
	Females		2	1	2
2	3	6	3	2	6
3	2	6	4	4	16
4	3	12	5	1	5
5	1	5	6	18	108
6	1	6	7	3	21
10	1	10	8	5	40
12	1	12	<u>0</u>	2	18
15	1	15	10	2 3	30
17	1	17	11	1	11
18	î	18	12	26	312
24	2	48	13	20	13
36	ĩ	36	14	1	13
48	î	48	16	1	14
10	1	-10	18	5	
Totals	19	239	19	0	90 19
Average (mon		12.58	24	12	
Unknown	2	12.30		13	312
CHKHOWH	4		26	1	26
Total total	21		30	2	60
i otar totar	21		36	3	108
			48	1	48
PROSTATE			60	3	180
1 HOOTALL	Males		72	1	72
0		0	98	1	98
3	3	9	120	1	120
4	3	12			
5	1	5	Totals	101	1,745
6 7	5	30	Average (mor		17.28
7	2	14	Unknown	3	
8	5	40			
9	$5 \\ 2 \\ 5 \\ 2 \\ 21 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ $	18	Total total	104	
12	21	252			
14	2	28		Females	
15	2	30	$\frac{2}{3}$	1	2
18	7	126	3	1	3
19	1	19	4	1	$2 \\ 3 \\ 4 \\ 5 \\ 48 \\ 7 \\ 8$
20	1	20	5	1	5
21	1	21	6	8	48
24	14	336	6 7 8	1	7
26	2	52		1	8
28	$\frac{2}{2}$	56	9	3	27
36	4	144	10	1	10
60	1	60	12	10	120

Males and Females

BLADDER-F	² emales (Continu	ied)	Duration (MONTHS)	Number	Aggregate
(MONTHS)	Number	Aggregate		Females	1 Bh Court
15	2	30	1	1	
18	1	18	3	1	9
24	7	168	0	3	9
30	3	90	6	1	26
36	3	108	8	6 2	36
42	1	42	9	2	16
48	2	96	12	0	27 12
84	1	84	13	1	
			15	1	. 13 30
Totals	48	870	15	2	30
Average (mo	onths)	18.13	18	4	32 72
			21	1	21
BRAIN			24	1 9	48
	Males	2.24	33	2	33
2	1	2	36	5	180
4	1	4	48	3	
33	1	33	40	1	48
84	1	84	Totals	36	582
TT			Average (mor		
Totals	4	123	Unknown	2	16.17
Average (mo		30.75	OIKHOWI	4	
Unknown	2		Total total	38	
T . 1 1			i otar totar	00	
Total total	6		TESTES		
-	Females		TESTES		
5	1	5		Males	
6	2	12	3	1	3
8	2	16	8	1	8
12	1	12	12	2 2	24
18	1	18	24	2	48
24	1	24			
Totals			Totals	6	83
	8	87	Average (mon	nths)	13.83
Average (mo	onths)	10.88	DENIO		
BONES			PENIS		
	Males			Males	
1	1	1	5	1	5
3	2	6	7	1	7
4 5	3	12	12	3 2	36
5	2	10	24	2	48
6	4	24			
8	5	40	Totals	7	96
9	$2 \\ 3 \\ 2 \\ 4 \\ 5 \\ 2 \\ 1$	18	Average (mon	ths)	13.71
10	1	10			
12	6	72	HE.4RT		
14	1	14		Males	
21	1	21	6	1	6
24	4	96	9	î	9
36	3	108			,
60	1	60	Totals	2	15
			Average (mon		7.50
Totals	36	492	and a final	Females	1.50
Average (mor	nths)	13.67	12	1	12
					1.0

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Males and Females

Duration (MONTHS)	Number	Aggregate	Duration (MONTHS)	Number	American
GENERAL			5	o	Aggregate
	Males		5	4	10
	mares		0	4	24
3	2	6	8	1	8
6	1	6	9	1	9
7	1	7	12	3	36
8	1	8	14 .	1	14
12	2	24	24	3	72
24	1	24	60	1	60
48	1	48			
			Totals	17	235
Totals	9	123	Average (mon	ths)	13.82
Average (mo	onths)	13.67	Unknown	1	
	Females				
2	1	2	Total total	18	

APPENDIX C

CANCER MORTALITY OF PORTSMOUTH, ENG.—1919-1924

MALES AND FEMALES

Table 1

BY AGE AT TIME OF DEATH

	Total	Aggregate	Males	Aggregate	Females	Aggregate
1		_	_			-
2					_	-
2 3	1	3	1	3		
4	_	2		_		-
5		-		_		_
5	1	6	1	6	1.000	
7	2	14	1	7	1	7
8		_	<u> </u>	<u> </u>	2	-
9	1	9	1	9		_
10	3	30	1	10	2	20
11	-	-	2	-	-	-
12	2	24	1	12	1	12
13	_	_	-		-	-
14	-	_				
15						
16				_		
17	1	17	1	17		_
18						
19		-				
20	2	40			2	40
21	ĩ	21	1.	21	2	- 40
22	i	22	1		1	99
23	î	23			i	$\frac{22}{23}$
24	_			_	1	23
25	1	25	1	25	-	
26	ĩ	26		20	1	26
27	$\hat{2}$	54	1	27	1	20 27
28	ĩ	28	1		i	28
29	î	29	1	29	1	- 20
30		60	1			60
31	2	62		-		62
32	$\frac{2}{2}$ 2 9	64	1	32	· 2 2 1	32
33	9	297	2	66	7	231
34	6	204	ĩ	34	5	170
35	7	245	î	35	6	210
36	6	216	î	36	5	180
37	8	296	2	74	6	100
38	16	608	5	190	11	222
39	15	585	3	190	12	418
40	19	760	3	120	12	468
41	14	574	5	205	9	640
42	17	714	7	203		369
43	19	817	5	215	10	420
44	19	440	3		14	602
	10	440	0	132	7	308

Males and Females

Table 1 (By Age at Time of Death) Continued

	Total	Aggregate	Males	Aggregate	E	
45	15	675	4	180	Females	Aggregat
46	30	1,380	10		11	495
47	28	1,316	14	460	20	920
48	22	1,056	7	658	14	658
49	31	1,519	9	336	15	720
50	24	1,200		441	22	1,078
51	31	1,581	12	600	12	600
52	38	1,976	12	612	19	969
53	43	2,279	22	1,144	16	832
54	54	2,279	15	795	28	1,484
55	37	2,916	22	1,188	32	1,728
56		2,035	19	1,045	18	990
57	45	2,520	17	952	28	1,568
	55	3,135	36	2,052	19	1,083
58	48	2,784	26	1,508	22	1,276
59	68	4,012	34	2,006	34	2,006
60	42	2,520	19	1,140	23	1,380
61	49	2,989	24	1,464	25	1,525
62	58	3,596	30	1,860	28	1,736
63	58	3,654	26	1,638	32	2,016
64	45	2,880	23	1,472	22	1,408
65	57	3,705	31	2,015	26	1,690
66	39	2,574	20	1,320	19	
67	44	2,948	25	1,675	19	1,254
68	55	3,740	23	1,564	32	1,273
69	56	3,864	27	1,863	29	2,176
70	43	3,010	22	1,540		2,001
71	44	3,124	22		21	1.470
72	48	3,456	20	1,562	22	1,562
73	37	2,701		1,440	28	2,016
74	41	3,034	13	949	24	1,752
75	29		20	1,480	21	1,554
76	37	2,175	13	975	16	1,200
77		2,812	12	912	25	1,900
78	29	2,233	16	1,232	13	1,001
	22	1,716	9	702	13	1,014
79	21	1,659	9	711	12	948
80	18	1,440	9	720	9	720
81	25	2,025	10	810	15	1,215
82	15	1,230	6	492	9	738
83	5	415	2	166	3	249
84	10 .	840	5	420	5	420
85	$\begin{array}{c}10\\8\\7\end{array}$	680	3	255	5 5	425
86	7	602	4	344	3	258
87		-			-	
-38	5	449	1	88	4	352
89	1	89	_	-	1	89
90	ĩ	90	1	90		05
91	-	-	-			
92	2	184		-	2	104
93	2 2	186	1	02	1	184
20		100		93	1	93
Totals	1,696	103,308	755	46,685	941	56,623
Aggregate :	age (years)	60.9		61.8		60.2

Appendix C (Cancer Mortality of Portsmouth, Eng., 1919-1924) Continued

Males and Females

Table 1 (By Age at Time of Death) Continued

	Total	Per cent.	Males	Per cent.	Females	Per cent.
1-10	8	0.5	5	0.7	3	0.3
10-20	5	0.3	2	0.3	3	0.3
20 - 30	11	0.6	4	0.5	7	0.7
30 - 40	90	5.3	19	2.5	71	7.5
40-50	210	12.4	76	10.1	134	14.2
50- 60	461	27.2	222	29.4	239	25.4
60-70	504	29.7	251	33.2	253	26.9
70-89	326	19.2	143	18.9	183	19.4
80-90	77	4.5	32	4.2	45	4.8
90-100	4	0.2	1	0.1	3	0.3
Total	1,696	99.9	755	99.9	941	99.8

Table 2

BY ORGANS AND PARTS

	Total	Males	Females			Total	Males	Females
Lips	10	9	1	Ovary		31	-	31
Tongue	75	70	5	Uterus		209		209
Mouth	8	6	2	Vagina		8		8
Jaw	38	28	10	Others of thi	s class			_
Throat	10	7	3	Breast		174		174
Neck	25	23	2	Skin		4	3	1
Face	17	11	6	Larynx		29	21	8
Eye	4	2	2	Lungs		40	22	18
Nose	1		1	Pancreas		21	17	4
Ear	6	2	4	Kidneys		13	7	6
Head	-	-		Prostate		21	21	
Tonsil	14	9	5	Bladder		46	29	17
Cheek	5	4	1	Brain		2	-	2
Hard palate	4	4	-	Bones		31	16	15
Chin		-		Testes		4	4	-
Pharynx	8	7	1	Penis		5	5	-
Oesophagus	76	65	11	Heart		13	8	5
Stomach	223	126	97	Appendix		1		1
Liver and gall	157	67	90	General		16	4	12
Mesentery	10	3	7	Unknown			-	-
Intestines	206	77	129					
Rectum	131	78	53	Total]	1,696	755	941
			SUM	MARY				
		Total	Per	cent. Males	Per cent.		Females	Per cent.
Cancer of buccal cavity.		269	15	5.9 217	28.7		52	5.5
Cancer of stomach and li		401	23	3.6 213	28.2		188	20.0
Cancer of peritoneum, 1	Intes-							
tines and rectum		348	20	0.5 158	20.9		190	20.2
Cancer of female genital		248	14	.6 -			248	26.4
Cancer of breast		174	10	.3 –			174	18.5
Cancer of skin		13	(.8 8.	1.1		5	0.5
Cancer of other organ	IS OF							
organs not specified		243	14	.3 159	21.1		84	8.9
Totals		1,696	100	0.0 755	100.0		941	100.0

APPENDIX D

CANCER DEATH RATES IN VARIOUS CITIES

Table 1

ALBANY, N. Y.-1919-1923

BY ORGANS AND PARTS

Rates per 100,000 of Population

			a coputation			
Parts	Total	Rate	Males	Rate	Females	Rate
Lips	5	0.9	5	1.9		TUTE
Tongue	16	1.8	10	3.7	_	-
Mouth	4	0.7	4	1.5		-
Jaw	9	1.6	8	3.0	1	0.2
Throat	9	1.6	7	2.6		0.3
Neck	14	2.5	ò	3.3	2 5	0.7
Face	12	2.1	7	2.6		1.7
Eyes	2	0.4	÷		5	1.7
Nose		0.4	1	0.4	1	0.3
Ear	2	0.4		-		
Head	-	0.1		-	2	0.7
Tonsil	4	0.7	2	0.7	-	-
Cheek	1	0.7	2	0.7	2	0.7
Hard palate				-		
Chin						
Pharynx	5	0.0	-	-		
Oesophagus	23	0.9	2	0.7	3	1.0
Stomach		4.1	20	7.4	3	1.0
Liver and gall bladder	162	28.9	95	35.2	67	23.1
Mesontery and pariter	70	12.5	20	7.4	50	17.2
Mesentery and peritoneum	11	2.0	6	2.2	5	1.7
Intestines	103	18.4	40	14.8	63	21.7
Rectum and anus	34	6.1	17	6.3	17	5.9
Ovary	16	2.9		-	16	5.5
Uterus	98	17.5			98	33.8
Vulva and vagina		-	-	- *	-	
Others of this class	5	0.9			5	1.7
Breast	86	15.4		-	86	29.7
Skin	2	. 0.4		-	2	0.7
Larynx	12	2.1	11	4.1	ĩ	0.3
Lungs and pleura	14	2.5	9	3.3	5	1.7
Pancreas	13	2.3	8	3.0	5	1.7
Kidneys	13	2.3	7	2.6	6	2.1
Prostate	35	6.3	35	13.0	0	I.
Bladder	26	4.6	13	4.8	13	4.5
Brain	2	0.4		1.0	2	0.7
Bones	22	3.9	12	4.4	10	3.4
Testes			-	1.1	10	0.4
Penis	3	0.6	3	1.1	_	
Heart	-	-		1.1		-
Appendix			÷			
General	14	2.5	2	0.7	12	41
			-	0.1	14	4.1
Totals	840	150.2	353	130.7	487	167.6

Appendix D (Albany, N. Y., 1919-1923) Continued

Table 1-Continued

BY ORGANS AND PARTS-SUMMARY

Rates per 100,000 of Population

	Total	Rate	Males	Bate	Females	Rate
Cancer of buccal cavity	99	17.7	75	27.8	24	8.3
Cancer of stomach and liver	232	41.5	115	42.6	117	40.3
Cancer of peritoneum, intes-						
tines and rectum	148	26.4	63	23.3	85	29.3
Cancer of female genital						
organs	119	21.3			119	41.0
Cancer of breast	86	15.4			86	29.6
Cancer of skin	2	0.4			2	0.7
Cancer of other organs or of						
organs not specified	154	27.5	100	37.0	54	18.6
Totals	840	150.2	353	130.7	487	167.6

BY TREATMENT BY OPERATION

Rates per 100,000 of Population

		nates per 100	0,000 of Popu	llation		
Yes No Known method Unknown	Total 300 433 733 107	Rate 53.6 77.3 130.9	Males 115 193 308 45	Rate 42.6 71.5 114.1	Females 185 240 425 62	Rate 63.8 82.8 146.6
Total	840		353		487	<u>.</u>
		BY AUTOPS	Y DISPOSI	TION		
Yes No Known method Unknown	Total 53 678 731 109	Rate 9,5 121.1 130.6	Males 23 284 307 46	Rate 8.5 105.2 113.7	Females 30 394 424 63	Rate 10.3 135.9 146.2
Total	840		353		487	
	1	BY PLACE C	OF OCCURR	ENCE		
Hospital Institution Residence General	Total 326 10 17 487	Rate 58.2 1.8 3.0 87.0	Males 165 1 4 183	Rate 61.1 0.4 1.5 67.8	Females 161 9 13 304	Rate 55.5 3.1 4.5 104.8
Total	840	150.0	353	130.3	487	167.9
		BY MARITA	L CONDIT	ION		
			Formal	Date		

	Females	Rate
Married	218	75.2
Single	86	29.7
Widowed	182	62.8
Divorced		
Known total	485	167.7
Unknown	1	
Total	487	
	101	

Table 2

BOSTON, MASS.—1920-1924 BY ORGANS AND PARTS

Rates per 100,000 of Population

Parts	Total	Rate	Males	Rate	Females	Rate
Lips	22	.6	21	1.2	1	
longue	80	2.2	74	4.1	6	.1
Mouth	7	.2	6	.3	0	.3
Jaw	61	1.6	48			.1
Throat	48	1.3	40	2.6	13	.7
Neck	101	A. 100		2.2	7	.4
Face	38	2.8	64	3.6	37	1.9
Eye	10	1.0	20	1.0	18	1.0
Nose	7	.3	4	.2	6	.3
Ear		.2	4	.2	3	.2
Head	12	.3	3	.2	9	.5
Tonsil	1	.02		-	1	.1
Tonsil	10	.3	7	.4	3	.2
Cheek	6	.2	5	.3	1	.1
Hard palate	7	.2	7	.3	-	-
Chin	-	-		-		
Pharynx	8	.2	6	.3	2	.1
Oesophagus	131	5.0	147	8.2	37	1.9
Stomach	1,033	28.1	571	31.7	462	24.8
Liver and gall bladder	454	12.4	191	10.6	263	14.1
Mesentery and peritoneum	49	1.3	20	1.0	29	1.6
Intestines	641	17.5	239	13.3	402	21.6
Rectum and anus	287	7.8	141	7.8	146	7.8
Ovary	95	2.6	1.41	1.0	96	5.0
Uterus	572	15.6	_	-	572	
Vulva and vagina	27	.8	-	-	27	30.7
Others of this class	11	.3	-	-		1.4
Breast	492	13.4	-	-	11	.6
Skin	25	.7		-	492	26.4
Larynx	63	1.7	- 4	.4	18	1.0
Lungs and pleura			54	3.0	9	.4
Pancreas	143	3.9	70	3.8	73	3.9
Kidnows	133	3.6	70	3.9	63	3.4
Kidneys	76	2.1	42	2.3	34	1.9
Prostate	141	3.8	141	7.8	-	-
Bladder	191	5.2	129	7.2	62	3.4
Brain	24	.6	8	.4	16	.9
Bones	126	3.4	61	3.3	65	3.4
Testes	15	.4	15	.8	-	-
Penis	9	.2	9	.4	-	
Heart	4	.1	1	.1	3	.1
Appendix	2	.1			2	1
General	84	2.3	36	2.0	48	2.6
Totals	5,300	144.3	2,262	124.9	3,038	163.0

Table 2—Continued

BY ORGANS AND PARTS-SUMMARY

Rates per 100,000 of Population

Cancer of buccal cavity	Total 602	Rate 16.4	Males 457	Rate 25.2	Females 145	Rate 7.8
Cancer of stomach and liver	1,487	40.5	762	42.1	725	38.9
Cancer of mesentery, intes- tines and rectum Cancer of female genital	977	26.6	400	22.1	577	31.0
Organs	706	19.2		-	706	37.9
Cancer of breast	492	13.4		-	492	26.4
Cancer of skin	25	.7	7	.4	18	1.0
Cancer of other organs or of organs not specified	1,011	27.5	636	35.1	375	20.1
Totals	5,300	144.3	2,262	124.9	3,038	163.0

BY TREATMENT BY OPERATION

Rates per 100,000 of Population

		-			
Total	Rate	Males	Rate	Females	Rate
1,913	52.0	825	45.8	1,088	58.3
1,181	32.1	494	27.4	687	36.8
3,094	84.1	1,319	73.2	1,775	95.1
2,206		943		1,263	
5,300		2,262		3,038	
	1,913 1,181 3,094 2,206	1,913 52.0 1,181 32.1 3,094 84.1 2,206	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

BY AUTOPSY DISPOSITION

Yes No Known method Unknown	Total 294 1,837 2,131 3,169	Rate 8.0 50.1 58.1	Males 157 721 878 1,384	Rate 8.7 40.1 48.8	Females 137 1,116 1,253 1,785	Rate 7.3 59.8 67.1
Totals	5,300	2,262		3,038		

BY MARITAL CONDITION

	Females	Rate
Married	1,285	68.9
Single	622	33.4
Widowed	1,088	58.3
Divorced	37	2.0
Known total	3,032	162.6
Unknown	6	
Total total	3,038	

Table 3

BUFFALO, N. Y., 1922 BY ORGANS AND PARTS

Rates per 100,000 of Population

Parts	Total	Rate	Males	Rate	Females	Rate
Lips					-	
Tongue	3	.6	3	1.2	_	
Mouth		-		_		
Jaw	5	1.0	5	2.0		
Throat	2	.4	1	.4	1	.4
Neck	2	.4	2	.8	÷	1.2
Face	2	.4	1	.4	1	.4
Eye			_		1	.4
Nose	1	.2	1	4		
Ear	1	.2	î	.4	_	-
Head	2		1			-
Tonsil	1	.2	1	.4		
Cheek	î	.2	1	.4		-
Hard palate	2	.4	2	.8	-	
Chin	-	.1	4	.0		-
Pharynx	_					
Oesophagus	16	3.2	13	5.1	-	
Stomach	92	18.2	49		3	1.2
Liver and gall bladder	37	7.2	11	19.4	43	17.0
Mesentery and peritoneum	5	1.0	2	4.3	26	10.3
Intestines	43	8.5		.8	3	1.2
Rectum and anus	22	4.3	23	9.1	20	7.9
Ovary	7		11	4.3	11	4.3
Uterus	52	1.4	-	-	7	2.8
Vulva and vagina	2	10.3			52	20.6
Others of this class	2	.4	1	-	2	.8
Breast	38	7.5			38	15.0
Skin			-	-		
Larynx	5	1.0	5	2.0		
Lungs and pleura	10	2.0	6	2.4	4	1.6
Pancreas	11	2.2	8	3.2	3	1.2
Kidneys	1	.2	1	.4	-	
Prostate	15	3.0	15	5.9	-	-
Bladder	18	3.6	9	3.6	9	3.6
Brain						
Bones	2	.4	2	.8	-	-
Testes	1	.2	1	.4		-
Penis			-			
Heart	3	.6	2	.8	1	.4
Appendix			-			
General	5	1.0	2	.8	3	1.2
Totals	405	80.3	178	70.5	227	89.9

Appendix D (Buffalo, N. Y., 1922) Continued

Table 3-Continued

BY ORGANS AND PARTS-SUMMARY

Rates per 100,000 of Population

	Total	Rate	Males	Rate	Females	Rate
Cancer of buccal cavity	36	7.1	31	12.3	5	2.0
Cancer of stomach and liver	129	25.6	60	23.8	69	27.3
Cancer of peritoneum, intes- tines and rectum Cancer of female genital	70	13.9	36	14.2	34	13.5
organs	61	12.1			61	24.1
Cancer of breast	38	7.5			38	15.0
Cancer of skin Cancer of other organs or of	7		277	-		
organs not specified	71	14.1	51	20.2	20	8.0
Totals	405	80.3	178	70.5	227	89.9

BY TREATMENT BY OPERATION

		Rates per 100	0,000 of Popul	ation		
	 Total 	Rate	Males	Rate	Females	Rate
Yes	141	27.9	69	27.3	72	28.5
No	246	48.6	107	42.3	139	54.9
Known method	387	76.5	176	69.6	211	83.4
Unknown	18		2		16	
Tatala	405		170		0.07	
Totals	405		178		227	

BY AUTOPSY DISPOSITION

	Total	Rate	Males	Rate	Females	Rate
Yes	37	7.3	24	9.5	13	5.1
No	343	67.8	141	57.7	202	79.8
Known method	380	75.1	165	67.2	215	84.9
Unknown	25		13		12	
Totals	405		178		997	
Unknown Totals	25 405		13 			

BY PLACE OF OCCURRENCE.

	Total	Rate	Males	Rate	Females	Rate
Hospital	154	30.4	90	35.6	64	25.3
Institution	17	3.4	5	2.0	12	4.7
Residence	229	45.3	83	32.8	146	57.7
General	5	1.0			5	2.0
Totals	405	80.1	178	70.4	227	89.7

BY MARITAL CONDITION

	Females	Rate
Married	114	45.1
Single	27	10.7
Widowed	82	32.4
Divorced	4	1.6
Totals	227	89.8

Appendix D (Cancer Death Rates in Various Cities) Continued

Table 4

CHICAGO, ILL., 1924 BY ORGANS AND PARTS

Rates per 100,000 of Population

Parts	Total	Rate	Males	Rate	Females	Rate
Lips	7	.3	5	.4	2	.2
Tongue	34	1.3	30	2.2	4	.3
Mouth	4	.2	3	.2	1	.5
Jaw	42	1.6	37	2.7	i c	
Throat	9	.3	8	.6	5	.4
Neck	32	1.2	21	1.5	11	.1
Face	17	.6			11	.8
Eyes	6		8	.6	9	.7
Nose	5	.2 .2	2	.1	4	.3
Ear	6	.2	1	.1	4	.3
Head		.2	3	.2	3	.2
Tongila	1	.0	1	.1	-	
Tonsils	5	.2	3	.2	2	.2
Cheek	5	.2	4	.3	1	.1
Hard palate	2	.1	2	.1	-	-
Chin	-	-	_	-		_
Pharynx	8	.3	6	.4	2	.2
Oesophagus	141	5.2	111	8.8	30	2.3
Stomach	775	28.7	464	33.9	311	23.4
Liver and gall bladder	256	9.5	102	7.5	154	11.6
Mesentery and peritoneum	21	.8	8	.6	134	1.0
Intestines	296	11.0	142	10.4	154	11.6
Rectum and anus	141	5.2	78	5.8	63	A 410
Ovary	47	1.7	10	0.0		4.7
Uterus	346	12.8	_	-	47	3.5
Vulva and vagina	10	.4	-		346	26.0
Others of this class	10			-	10	.8
Breast	265	0.0	-	-		-
Skin	14	9.8	-	-	265	19.9
		.5	8	.6	6	.5
Larynx	47	1.7	42	3.1	5	.4
Lungs and pleura	75	2.8	50	3.7	25	1.9
Pancreas	105	3.9	58	4.2	47	3.5
Kidneys	63	2.3	42	3.1	21	1.6
Prostate	86	3.2	86	6.3	-	-
Bladder	157	5.8	104	7.7	53	4.0
Brain	14	.5	6	.4	8	.6
Bones	71	2.6	36	2.6	35	2.6
Testes	6	.2	6	.4	-	
Penis	7	.3	7	.5	_	
Heart	4	.2	2	.1	2	2
Appendix	2	.1	_		2	2
General	31	1.1	9	.7	22	1.7
Totals	3,163	117.2	1,495	110.1	1,668	125.9

Appendix D (Chicago, Ill., 1924) Continued

Table 4-Continued

BY ORGANS AND PARTS-SUMMARY

Rates per 100,000 of Population

Parts	Total	Rate	Males	Rate	Females	Rate
Cancer of buccal cavity	324	12.0	245	17.9	79	5.9
Cancer of stomach and liver	1,031	38.2	566	41.3	465	34.9
Cancer of peritoneum, intes-						
tines and rectum	458	17.0	228	16.7	230	17.3
Cancer of female genital						
organs	403	14.9		-	403	30.3
Cancer of breast	265	9.8	-	-	265	19.9
Cancer of skin	14	.5	8	.6	6	.5
Cancer of other organs or of						
organs not specified	668	24.7	448	32.7	220	16.5
Totals	3,163	117.2	1,495	110.1	1.668	125.9

BY TREATMENT BY OPERATION

		Rates per 10	0,000 of Popu	lation		
	Total	Rate	Males	Rate	Females	Rate
Yes	1,209	44.8	541	39.5	668	50.2
No	1,880	69.6	912	66.6	968	72.7
Known method	3,089	114.4	1,453	106.1	1,636	122.9
Unknown	74		42		32	
Totals	3,163		1,495		1,668	2

BY AUTOPSY DISPOSITION

	Total	Rate	Males	Rate	Females	Rate
Yes	1,417	52.5	1,284	93.8	133	10.0
No	1,724	63.8	201	14.7	1.523	114.4
Known method	3,141	116.3	1,485	108.5	1,656	124.4
Unknown	22		10		12	
Totals	3,163		1,495		1,668	

BY PLACE OF OCCURRENCE

Hospital Institution Residence General	Total , 1,284 23 1,848 8	Rate 47.5 .9 68.4 .3	Males 711 7 775 2	Rate 51,9 .5 56.6 1	Females 573 16 1,073 6	Rate 43.1 1.2 80.6
Totals	3,163	117.1	1,495	109.1	1,668	125.4

BY MARITAL CONDITION

	Females	Rate
Married	859	64.6
Single	160	12.0
Widowed	629	47.3
Divorced	20	1.5
Totals	1,668	125.4

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Appendix D (Cancer Death Rates in Various Cities) Continued

Table 5

NEW ORLEANS, LA.-1919-1923

(White)

BY ORGANS AND PARTS

Rates per 100,000 of Population

Parts	Total	Rate	Males	Rate	Females	Rate
Lips	4	0.3	4	0.5		Rate
Tongue	52	3.5	47	6.4	5	0.7
Mouth	9	0.6	9	1.2		0.7
Jaw	22	1.5	18	2.4	4	0.5
Throat	21	1.4	21	2.8	1	0.5
Neck	43	2.9	34		-	-
Face	60	4.0	39	4.6	9	1.2
Eyes	8	0.5	4	5.3	21	2.8
Nose	7	0.5	5	0.5	4	0.5
Ear	4	0.3	3	0.7	2	0.3
Head	4		3	0.4	1	0.1
Tonsil	1	0.3	1	0.1	3	0.4
Cheek	4	0.1	1	0.1		7
Hard palate	4	0.3	4	0.5		
Chin			-			-
Pharynx	-		_	-	-	-
Oesophagus	8	0.5	8	1.2		-
Stomach	35	2.3	31	4.2	4	0.5
Stomach	343	23.0	202	27.3	141	18.8
Liver and gall bladder	154	10.3	69	9.3	85	11.3
Mesentery and peritoneum	21	1.4	7	0.9	14	1.9
Intestines	100	6.7	40	5.4	60	8.0
Rectum and anus	44	2.9	15	2.0	29	39
Ovary	18	1.2			18	2.4
Uterus	240	16.1	_		240	32.0
Vulva and vagina	7	0.5		_	7	0.9
Others of this class	4	0.3			4	0.5
Breast	142	9.5	1	0.1	141	18.8
Skin	10	0.7	7	0.9	3	0.4
Larynx	42	2.8	38	5.1	4	0.5
Lungs and pleura	41	2.8	28	3.8	13	1.7
Pancreas	12	0.8		1.2	4	0.5
Kidneys	19	1.3	10	. 1.4	0	1.2
Prostate	45	3.0	45	6.1	,	1.2
Bladder	. 64	4.3	48	6.5	.16	2.1
Brain	17	1.1	7	0.9	10	1.3
Bones	36	2.4	14	1.9	22	2.9
Testes	1	0.1	1	0.1		2.9
Penis	4	0.3	4	0.5		-
Heart	2	0.1	1			-
Appendix	-	0.1	1	0.1	1	0.1
General	33	2.2	12	16	01	-
		<i>4.6</i>	12	1.6	21	2.8
Totals	1,681	112.8	786	106.0	895	119.0

Table 5-Continued

BY ORGANS AND PARTS-SUMMARY

(White)

Rates per 100,000 of Population

Cancer of buccal cavity	Total 282	Rate 18.9	Males 229	Rate 30.9	Females 53	Rate 7.1
Cancer of stomach and liver Cancer of peritoneum, intes-	497	33.4	271	36.6	226	30.1
tines and rectum Cancer of female genital	165	11.1	62	8.4	103	13.7
organs	269	18.1			269	35.7
Cancer of breast	142	9.5	1	0.1	141	18.8
Cancer of the skin Cancer of other organs or of	10	0.7	7	0.9	3	0.4
organs not specified	316	21.2	216	29.2	100	13.3
Totals	1,681	112.8	786	106.0	895	119.0

(White)

	в	Y TREATMENT	BY OPE	RATION		
Yes No Known method Unknown	Total 398 501 899 782	Rate 26.7 33.6 60.3	Males 180 221 401 385	Rate 24.3 29.9 54.2	Females 218 280 498 397	Rate 29.1 37.3 66.4
Totals	1,681		786		895	
		BY AUTOPSY	DISPOSI	TION		
Yes No Known method Unknown	Total 24 795 819 862	Rate 1.6 53.4 55.0	Males 16 348 364 422	Rate 2.2 47.0 49.2	Females 8 447 455 440	Rate 1.1 59.6 60.7
Totals	1,681		786		895	
		BY PLACE OF	OCCURR	ENCE		
Hospital Institution Residence General	Total 558 24 1,022 77	Rate 37.5 1.6 68.6 5.2	Males 356 9 391 30	Rate 48.1 1.2 52.8 4.1	Females 202 15 631 47	Rate 26.9 2.0 84.1 6.3
Totals	1,681	112.9	786	106.2	895	119.3

BY MARITAL CONDITION

	Females	Rate
Married	394	52.5
Single	151	20.1
Widowed	328	43.7
Divorced	14	1.9
Known total	887	118.2
Unknown	8	
Totals	895	

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Appendix D (New Orleans, La., 1919-1923) Continued

Table 6

(Colored)

BY ORGANS AND PARTS

Rates per 100,000 of Population

Parts	Total	Rate	Males	Rate	Females	Rate
Lips	2	.4	2	.8	i cinares	nate
longue	5	1.0	3	1.2	-	_
Mouth	2	.4	1		2	
Jaw	12	2.3	17	.4	1	.4
Throat	1	.2		2.9	5	1.8
Neck	2		1	.4		-
Face	8	.4	1	.4	1	.4
Eyes	0	1.5	5	2.0	3	1.1
Nose	1	.2	1	.4		
For	-	-	-		_	_
Ear	2	.4	2	.8	· ·	
Head	1	.2	1	.4		
Tonsils	1	.2	1	.4		
Cheek	-	_	_			
Hard palate		-	_		-	-
Chin	-	· · · · ·		_	-	-
Pharynx	_					
Oesophagus	1	2	-	-	-	—
Stomach	124	23.6	71	.4	-	-
Liver and gall bladder	47		71	29.0	53	18.9
Mesentery and peritoneum		9.0	31	12.7	16	5.7
Intestines	6	1.1	3	1.2	3	1.1
Intestines	28	5.3	13	5.3	15	5.4
Rectum and anus	33	6.3	10	4.1	23	8.2
Ovary	8	1.5			8	2.9
Uterus	148	28.2		-	148	52.9
Vulva and vagina	3	.6	-	_	3	1.1
Others of this class	1	.2	_		1	.4
Breast	47	9.0			47	
Skin	3	.6	3	1.2	44	16.8
Larynx	2	.4	2		-	-
Lungs and pleura	3	.6	2	.8	-	-
Pancreas	2	.0	1	.4	2	.7
Kidneys	1		1	.4	1	.4
Prostate	~	.2	1	.4	-	-
Pladdor	4	.8	4	1.6	-	-
Bladder	12	2.3	8	3.3	4	1.4
Brain	4	.8	2	.8	2	.7
Bones	18	3.4	8	3.3	10	3.6
Testes	4	.8	4	1.6	_	-
Penis	3	.6	3	1.2		
Heart	-	-		_		
Appendix	-	_				5.0
General	10	1.9	5	2.0	5	1.8
Totals	549	105.0	196	-79.8	353	126.4

Table 6-Continued

BY ORGANS AND PARTS-SUMMARY

(Colored)

Rates per 100,000 of Population

Cancer of buccal cavity Cancer of stomach and liver	Total 38 171	Rate 7.3 32.7	Males 26	Rate 10.6	Females 12	Rate 4.3
Cancer of peritoneum, intes- tines and rectum	67	12.8	102	41.6	69	24.7
Cancer of female genital	160	30.6	26	10.6	41	14.7
Cancer of breast	47	9.0	_		160 47	57.3 16.8
Cancer of skin Cancer of other organs or of	3	.6	3	1.2	-	-
organs not specified	63	12.0	39	15.9	24	8.6
Totals	549	105.0	196	79.8	353	126.4

		(Colored)	5		
	BY		NT BY OPE	RATION		
Yes No Known method Unknown	Total 36 178 214 335	Rate 6.9 33.9 40.8	Males 10 43 53 143	Rate 4.1 17.6 21.7	Females 26 135 161 192	Rate 9.3 48.2 57.5
Totals	549		196		353	
	1	BY AUTOPS	SY DISPOSI	TION		
Yes No Known method Unknown	Total 201 203 346	Rate .4 38.3 38.7	Males 1 50 51 145	Rate .4 20.4 20.8	Females 1 151 152 201	Rate .4 53.9 54.3
Totals	549		196		353	

	1	BY PLACE	OF OCCURR	ENCE.		
Hospital Institution Residence General	Total 223 5 295 26	Rate 42.5 1.0 56.2 5.0	Males 110 1 73 12	Rate 44.9 .4 29.8 4.9	Females 113 4 222 14	Rate 40.4 1.4 79.3 5.0
Totals	549	104.7	196	80.0	353	126.1

BY MARITAL CONDITION

	Females	Rate
Married	58	20.7
Single	65	23.2
Widowed	72	25.7
Divorced	80	28.6
Known total	275	98.2
Unknown	78	20.2
Total		
rotal	353	

Appendix D (Cancer Death Rates in Various Cities) Continued

Table 7

SAN FRANCISCO, CALIF.—1920-1924 BY ORGANS AND PARTS

Rates per 106,000 of Population

Parts	Total	Rate	Males	Rate	Females	Rate
Lips	19	.7	16	1.1	3	.2
Tongue	78	2.9	72	5.1	6	.5
Mouth	8	.3	5	.4	3	.2
Jaw	43	1.6	41	2.9	2	.2 .2
Throat	24	.9	22	1.5	2	.2
Neck	73	2.7	63	4.4	10	.8
Face	23	.9	13	.9	10	.8
Eyes	10	.4	7	.5	3	.2
Nose	12	.5	9	.6	3	.2
Ear	16	.6	9	.6	7	.6
Head	4	.2	2	.1	2	.2
Tonsils	12	.5	8	.6	4	.3
Cheek	4	.2	2	.1	2	.2
Hard palate	2	.1	2	.1		
Chin	ĩ	.0	ĩ	.1	-	
Pharynx	18	.7	16	1.1	2	.2
Oesophagus	120	4.5	109	7.7	11	.9
	910	34.3	641	45.1	269	21.8
Stomach Liver and gall bladder	342	12.9	192	13.5	150	12.1
	42	1.6	192	1.3	24	1.9
Mesentery and peritoneum	382	14.4	176	12.4	206	16.7
Intestines				1	79	6.4
Rectum and anus	215	8.1	136	9.6	45	3.6
Ovary	45	1.7		-	416	33.7
Uterus	416	15.7	-		410	.6
Vulva and vagina	7	.3				
Others of this class	4	.2	-	-	4	.3
Breast	328	12.4	3	.2	325	26.3
Skin	22	.8	16	1.1	6	.5
Larynx	66	2.5	61	4.3	5	.4
Lungs and pleura	125	4.7	70	4.9	55	4.5
Pancreas	106	4.0	65	4.6	41	3.3
Kidneys	· 38	1.4	25	1.8	13	1.1
Prostate	129	4.9	129	9.1		-
Bladder	93	3.5	65	4.6	28	2.3
Brain	26	1.0	12	.8	14	1.1
Bones	95	3.6	55	3.9	40	3.2
Testes	10	.4	10	.7	-	
Penis	7	.3	7	.5		
Heart	9	.3	5	.4	4	.3
Appendix	3	.1	1	.1	2	.2
General	67	2.5	29	2.0	38	3.1
General						
Totals	3,954	149.3	2,113	148.7	1,841	149.1

* Appendix D (San Francisco, Calif., 1920-1924) Continued

Table 7-Continued

BY ORGANS AND PARTS-SUMMARY

Rates per 100,000 of Population

			2212	12100	22.1	
	Total	Rate	Males	Rate	Females	Rate
Cancer of buceal cavity	467	17.6	397	28.0	70	5.7
Cancer of stomach and liver	1,252	47.3	833	58.7	419	33.9
Cancer of peritoneum, intes-						
tines and rectum	639	24.1	330	23.2	309	25.0
Cancer of female genital						
organs	472	17.8		-	472	38.2
Cancer of breast	328	12.4	3	.2	325	26.3
Cancer of skin	22	.8	16	1.1	6	.5
Cancer of other organs or of						
organs not specified	774	29.2	534	37.6	240	19.4
Totals	3,954	149.3	2.113	148.7	1.841	149.1

BY TREATMENT BY OPERATION

			· · · · · · ·			
		Rates per 100,0	00 of Popu	lation		
Yes No Known method Unknown	Tetal 1,534 1,865 3,399 555	Rate 57.8 70.2 128.0	Males 802 1,015 1,817 296	Rate 56.5 71.5 128.0	Females 732 850 1,582 259	, Rate 59.3 68.8 128.1
Totals	3,954		2,113		1,841	
		BY AUTOPSY	DISPOSI	FION		
Yes No Known method Unknown	Tetal 526 2,818 3,344 610	Rate 19.8 106.1 125.9	Males 363 1,425 1,788 325	Rate 25.6 100.4 126.0	Females 163 1,393 1,556 285	Rate 13.2 112.8 126.0
Totals	3,954		2,113		1,841	
	I	BY PLACE OF	OCCURR	ENCE		
Hospital Institution Residence General	${}^{\rm Total}_{2,027}$ 379 1,541 7	Rate 76.4 14.3 58.0 .3	Males 1.251 234 623 5	Rate 88.1 16.5 43.9 .4	Females 776 145 918 2	Rate 62.8 11.7 74.3 .2
Totals	3,954	149.0	2,113	148.9	1,841	149.0
		BY MARITAL	CONDIT	ION		
	Widow		Female 870 229 691 48			

Known total	1,838
Unknown	3
Total	1,841

148.8

Appendix D (Cancer Death Rates in Various Cities) Continued

Table 8

PORTSMOUTH, ENG.—1919-1924

BY ORGANS AND PARTS

Rates per 100,000 of Population

Parts	Total	Rate	Males	Rate	Females	Rate
Lips	10	0.7	9	1.2	1	0.1
Tongue	75	5.1	70	9.6	5	0.7
Mouth	8	0.5	6	0.8	2	0.3
Jaw	38	2.6	28	3.9	10	1.3
Throat	10	0.7	7	1.0	3	0.4
Neck	25	1.7	23	3.2	2	0.3
Face	17	11	11	1.5	6	0.8
Eye	4	0.3	. 2	0.3	2	0.3
Nose	í	0.1	-	0.0	ĩ	0.1
Ear	6	0.4	2	0.3	4	0.5
Head	0	0.4	4	0.5		0.0
Tonsil	14	0.9	0	1.2	5	0.7
Cheek	5	0.3	4	0.6	1	0.1
Hard palate	4	010	4	0.6	1	0.1
	4	0.3	4	0.0		
Chin	-	0.5	-	10	-	0.1
Pharynx	8	0.5		1.0	1	0.1
Oesophagus	76	5.3	65	9.0	11	1.5
Stomach	223	15.0	126	17.4	97	12.8
Liver and gall bladder	157	10.6	67	9.2	90	11.9
Mesentery and peritoneum	10	0.7	3	0.4	7	0.9
Intestines	206	13.9	77	10.6	129	17.0
Rectum and anus	131	8.8	78	10.7	53	7.0
Ovary	31	2.1	_	_	31	4.1
Uterus	209	14.1	-	-	209	27.6
Vulva and vagina	8	0.5	-		8	1.1
Others of this class	-	-	-	-	-	-
Breast	174	11.7	-	-	174	23.0
Skin	4	0.3	3	0.4	1	0.1
Larynx	29	2.0	21	2.9	8	1.1
Lungs	40	2.7	22	3.0	18	2.4
Pancreas	21	1.4	17	2.3	4	0.5
Kidneys	13	0.9	7	1.0	6	0.8
Prostate	21	1.4	21	2.9	-	
	46	3.1	29	4.0	17	22
Bladder	2	0.1	2)	1.0	2	0.3
Brain	31	2.1	16	2.2	15	2.0
Bones	4		4	0.6	15	2.0
Testes		0.3	5			-
Penis	5	0.3		0.7	-	0.7
Heart	13	0.9	8	1.1	5	0.7
Appendix	1	0.1	-	-	1	0.1
General	16	1.1	4	0.6	12	1.6
Totals	1,696	114.4	755	104.0	941	124.3

Appendix D (Portsmouth, Eng., 1919-1924) Continued

Table 8-Continued

BY ORGANS AND PARTS-SUMMARY

Rates per 100,000 of Population

Cancer of buccal cavity Cancer of stomach and liver	Total 269 401	Rate 18.1 27.0	Males 217 213	Rate 29.9 29.3	Females 52 188	Rate 6.9 24.8
Cancer of peritoneum, intes- tines and rectum Cancer of female genital	348	23.5	158	21.8	190	25.1
organs	248	16.7	-	-	248	32.8
Cancer of breast	174	11.7			174	23.0
Cancer of skin Cancer of other organs or of	13	.9	8	1.1	5	.7
organs not specified	243	16.4	159	21.8	84	11.1
Totals	1,696	114.4	755	104.0	941	124.3

APPENDIX E

CANCER MORTALITY OF SAN FRANCISCO—1920-1924

BY STREETS AND HOUSES

	Alabama Street		723	Lungs	1	626	Breast	1
822	Stomach	1				656	Liver	1
829	Ear	î			5	657	Stomach	1
1039	Pancreas	î		Angelica Street		737	Breast	1
1045	Intestines	î		Mouth	1	742	Face	1
1063	Stomach	î	14	Mouth	1	980	Uterus	1
1338	Pancreas	î		Anza Street				
1404	Stomach	î	7	Stomach	1			12
1615	Uterus	î	25	Uterus	1		Ashton Avenue	
1010	Cicius	-	433	Stomach	i	320	Oesophagus	1
		8	715	Stomach	î		1.1	
	Albion Avenue		1432	Stomach	î		Athens Street	2
1955	Intestines	1	2267	Kidney	î	253	Lungs	1
125a	Intestines	1	2326	Ear	î	286	Breast	1
	Alma Street		2020	Dati				-
37	Intestine	1			7			2
175	Mesentery	i		Arleta Street			Augusta Street	
110	Mesentery	1	338	Prostate	1	300	Larynx	1
		2	000	Prostate	1		1	
		-		Arlington Street			August Alley	
	Allison Street			Bladder	1	33	Bladder	1
115	General	1		Intestine	1		Austen Avenue	
110	oonerui		2013	Intestine	1			
	Alpine Terrace				2	$317\frac{1}{2}$	Ovary	1
157	Ovary	1			-		Avalon Avenue	
				Army Street				
	Alta Street		2987	Prostate	1	524	Kidney	1
114		1	3025	Kidney	î	1	Azter Street	
11.4	Stomach	1	3306	Oesophagus	î			1
	Alton Street		3380	Neck	î	31	Uterus	1
125	Stomach	1	3524	Stomach	î		Baker Street	
			3733	Stomach	î	19	Breast	1
	Alvarado Street		3863	Breast	î	40	Intestines	î
52	Neck	1	3914	Stomach	î	122	Stomach	î
554	Uterus	1	3927	Breast	i	300	Face	î
839	Pancreas	1	4019	Intestines	î	372	Intestines	î
855	Oesophagus	1	4079	Stomach	i	514	Uterus	î
919	Intestines	1	1015			550	Intestines	î
		*****			11	555	Breast	1
		5		Arguello Blvd.			Bone	1
	Anderson Street		745	Skin	1	851	Uterus	1
233	Intestines	1	753	Uterus	î	1538	Rectum	1
235	Breast	1	100	Oterus	_	1836	Breast	1
737	Uterus	î			2	2031	General	1
101	Oterus			Ashbury Street	-	2270	Rectum	1
		3	012		1	2737	Uterus	1
	Andover Street		213	Gall bladder	1	2830	Stomach	1
			214	Breast Stomach	1			
193	Stomach	1	444	Stomach	1			16
479	Stomach	1	508		1		Bancroft Avenue	
517	Stomach	1	557	Stomach	1		Intestines	1
549	Skin	1	624	Larynx		2000		

	Balboa Street			Bernard Street		1055	5 Pancreas	1
14		1	140		1	1136		1
26		1			1	1256		
325		1	146	Bones	1	1325		1
		1						1
743		÷		1.00 1.00 0.00 0.00	2	1351		1
1125		1		Bessie Street		1374		1
4200) Liver	1	- 58	General	1	1686		1
						1701		1
		6		Bishop Street		2295	Bladder	1
	Banks Street		79		1			
99	Stomach	1	12	orerus	1			20
107		1		Blake Street			Broderick Street	100
597		1	46		1	121		
397	Uterus	1	40	Oterus	1	400		1
		-		Bocana Street			NUCL OF BRIDE C. B.B.	1
	D DI	3	150		<u>_</u>	509		1
	Bannam Place		150	Bladder	1	550		1
13	Tonsil	1	173	Ocsophagus	1	632		1
			307	Tonsil	1	821	Bladder	1
	Bartlett Street					901	Rectum	1
42	Uterus	- 1			3	1046	Bone	1
134		î		Bon View Street		1630	Uterus	1
411	Uterus	î	20	Throat	1	2115	Uterus	î
412		1	254		- î	2298	Lung	î
504		1	20 F	Dicast	1	2860	Rectum	î
004	Stomach	1			-	2869	Pancreas	1
		-		D I. C	2	2009	1 ancieas	1
	D C	5		Bosworth Street				10
	Bay Street		419		1			13
430	Lip	1	742	Breast	1		Brunswick Street	
447	Stomach	1				40	Stomach	1
698	Pancreas	1			2	605	Oesophagus	ĩ
718	Stomach	î		Bowdoin Street	-		o compringuo	
	oronneen		110					2
		4	110	Stomach	1			4
	Beaver Steret			Boyce Street			Bryant Street	
			10			2209	Pancreas	1
49	Stomach	1	69a	Stomach	1	2347	Liver	1
	DII C.			D. I. C.		2560	Prostate	1
	Belcher Street			Brady Street		2688	Breast	1
59	Oesophagus	1	731	Stomach	1	2689	Breast	î
	Dalas Las Start					2783	Stomach	i
	Belvedere Street			Brannan Street		2816	Face	1
14	Intestines	1	900	Stomach	1	2864	Bladder	-
120	Lungs	1			-	2001	Diauder	1
170	Hard palate	1		Brazil Avenue				-
456	Stomach	1	339	Lungs	1			8
497	Stomach	1	007	ratin Bo		Bu	iena Vista Avenue	
				Broadway Street		601	Liver	1
		5				615	Breast	1
	Bellevue Avenue			Oesophagus	1	0.0	Dicust	1
	Prostate		369	Liver	1			0
101	rrostate	1	381	Liver	1			2
1	Bennington Street		402	Stomach	1	1	Buchanan Street	
			402	General	1	401	Intestines	1
	Neck	1	452	Stomach	1	626	Uterus	î
224	Lip	1	534	Stomach	1	801	Ovary	î
			765	Stomach	1	10083		1
	1000 C C C C C C C C C C C C C C C C C C	2	785	Stomach	1	1203	Stomach	1
	Bernal Avenue		801	Bone	i	1527		1
57	Uterus	1	872	Bones	î	1327	Larynx	1
			014	1001100		1000	Stomach	1

B	uchanan Street—			California Street	4933	Throat	1
	Continued		570	Stomach 1	5039	Stomach	1
1900	Breast	1	612	Stomach 1	5736	Bone	1
2959	Liver	1	790	Breast 1	5850	Neck	1
3028	Ovary	î	875	Intestines 1	6411	Rectum	î
3210	Liver	î			0111	Recetum	-
		1	897	Kidney 1			60
3214	Liver	1	*901	Stomach 1	Calif	ornia and Maple	
		1.0	901	Intestines 1			
		12	901	Uterus 1	-(1	Children's Hospi	(111)
	Bush Street		901	Ovaries 1		Neck	1
524	Bladder	1	911	Stomach 1		Camp Street	
555	Lip	1	1155	Bladder 1	311	Breast	1
645	Uterus	1	1299	Breast 1	011	Dicast	-
650	Uterus	1	1370	Intestines 1		Canning Court	
650	Cheek	î	1390	Stomach 1	4	Bone	1
660	Intestines	î	1408	Breast 1	4	Done	1
698	Uterus	î	1454	Intestines 1		Capp Street	
734	Breast	1		General 1	65	Ovary	1
800		1	1507	Breast 1	161	Stomach	1
	General	1	1531	Uterus 1	359	Breast	1
*900	Kidneys	1	2000	Stomach 1			1
972	Breast	1			361	Stomach	1
1019	Liver	1	2009	Cervix 1	398	Face	1
1035	Breast	1	2025	Gall bladder 1	437	Stomach	1
1065	Intestines	1	2105	Rectum 1	503	Intestine	1
1105	Tongue	1	2115	Intestines 1		Oesophagus	1
1112c	Intestines	1	2174	Throat 1	518	Liver	1
1209	Liver	1	2186	Breast 1	644	Uterus	1
1209	Rectum	1	2201	Breast 1	672a	Liver	1
1240	General	î	2315	Stomach 1	720	Stomach	1
1661	General	î	2332	Bone 1	721	Lung	1
1677	Intestines	î	2399	Ovaries 1	727	Liver	1
1700	Stomach	î	2402	Uterus 1	729	Uterus	î
1712	Uterus	1	2460	Stomach 1	737	Uterus	î
		1		Rectum 1	761	Uterus	î
1818	Prostate	1	2532	Pancreas 1	854	Lungs	î
1878	Breast	1	2578	Stomach 1	865	General	1
1956	Bone	1	2615	Prostate 1			1
1988	Prostate	1			1005	Tongue	1
2035	Liver	1	2659	Stomach 1	1055	Neck	1
2107	Intestines	1	2659	Uterus 1	1106	Stomach	1
	Liver	1	2659	Intestines 1			
2325	Stomach	1	2808	Breast 1			22
2365	Liver	1	2834	Bone 1		Card Alley	
2508	Stomach	1	2852	Breast 1	4	Bones	1
2530	Stomach	1	2860	General 1	7	Lung	1
2658	Uterus	ĩ	2861	Liver 1		Louin B	_
2691	Rectum	î	2909	Brain 1			2
2719	Stomach	î	3078	Uterus 1		Carl Street	-
2736	Liver	1	3332	Stomach 1	201		
		1	3626	Uterus 1	136	Breast	1
	Oesophagus	1	3882	Intestines 1	498	Intestines	1
2900	Stomach .	1	3914	Liver 1	14	Stomach	1
			3917	Lungs 1			-
*St. Fr	rancis Hospital	40					3
	Cabrillo Street		3932	Stomach 1		Carolina Street	
120		1	4006	Stomach 1	955	Rectum	1
130	Bladder	1	4553	Liver 1	1129	Peritoneum	î
430	Liver	T	4860	Rectum 1	1129	A Critoneum	
		-		rsity Club			2
		2	Chive	isity Glub			4

	Carmelita Street			Chestnut Street		1087	Liver	1
54	Stomach	1	436	Intestine	1	1089		î
				a Uterus	î	1104		î
(Charter Oak Street		1001	u orerus	-	1121		î
216	Stomach	1			2	1175		1
610		i		Clara Street		1218		1
			91	b Breast		1270		î
		2	58		1	1420		î
	Caselli Avenue	-	261		1	1458		î
318	Oesophagus	1	201	LIVET	1	1475		î
421	Stomach	1			-	1539		î
434	Intestines	1		22 2	3	1539		1
404	intestines	1		Clayton Street		1560		î
			134	Peritoneum	1	1631	Prostate	î
		3	182		1	1644		1
	Castro Street		200		î	1650		1
72	Neck	1	513	Stomach	î	1909		1
94	Intestines	1	657	Uterus	î	2220		1
412	Stomach	1	710		î	2544		1 i
744	Neck	î	765	Uterus	î	2569	Bladder	1
785	Lip	î	838	Lungs-pleura	î	2655	Pancreas	1
855	Breast	î	850		î	2655	Liver	1
1003	Lip	î	925	Kidney	î	2667	Liver	1
1015	Uterus	î	1108	Uterus	1	2751		1
		1	1100	eterus	1	2835	Stomach	1
		8			11		Stomach	1
	Control 1	0		Clement Street	11	3043	Uterus	1
	Central Avenue					3110	Pancreas	1
7	Pancreas	1	134		1	3150	Bone	1
65	Throat	1	288	Bladder	1	3294	Intestines	1
72	Intestines	1	610	Breast	1	3301	Rectum	1
144	Stomach	1	734	Pancreas	1	3314	Breast	1
146	Breast	1	1136	Intestines	î	3335	Liver	1
828	Bone	1	1916	Uterus	î	3595	Intestines	1
934	Prostate	1			_	3600	Rectum	1
					6	3779	Bones	1
		7		1	0	3800	Lung	1
C	hattanooga Street			Clementina Street		3954	Liver	1
113	Breast			Uterus	1	3975	Liver	1
159	Uterus	1	379a	Prostate	1			
167		1						53
173	Stomach Stomach	1			2			
195	Breast	1		Clay Street			01 1 0	
195	breast	1	20		1.2		Church Street	
		-	50	Stomach	1	115	Uterus	1
		5	66	Stomach	1	264	Stomach	1
	Chenery Street		632	Brain	1	359	Bladder	1
62	Uterus	1	640	Stomach	1	502	Stomach	1
165	Oesophagus	i	640	Lung	1	550	Stomach	1
214	Oesophagus	1	667	Rectum	1	664	Stomach	1
558	Intestines	1	668	Penis	1	748	Liver	1
662	Rectum	1	733	Throat	1	1061	Stomach	1
733	Intestines	1	747	Tongue	1	1317	Chin	1
422	Intestines	i	761	Liver	1	1453	Uterus	1
			777	Liver	1	1607	Throat	î
		7	808	Oesophagus	1	1671	Liver	1
	Chesley Street		846	Pancreas	1	1835	Larynx	1
4.7			847	Throat	1			
45	Stomach	1	920	Rectum	1			13

By Streets and Houses-Continued

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	Clipper Street		College Avenue			De Haro Street
275	Stomach	1	10 Breast	1	1051	Lung
321	Lung	1			1102	Stomach
383	Gall bladder	1	College Terrace		1325	Stomach
511	Liver and g. b.	1	16 Intestines	1		
		4	Commonwealth Aven	ne		Delmar Street
	Clover Street	107.5	12 Uterus	1	29	Stomach
35	Larynx	1	126 Uterus	î	27	
2.27						Diamond Street
	Cole Street			2	69	Tongue
400	Stomach	1	Conkling Street		127	Intestines
612	Intestine	1	44 Uterus	1	128	Oesophagus
650	Eye	1	Conne Street		130 236	Bladder
710	Tongue	1	Congo Street 114 Stomach	1	230 915	Stomach Uterus
830	Intestines	1	114 Stomach	1	1120	Kidneys
1012	Stomach Gall bladder	1	Corbett Avenue		2708	Gall bladder
$1051 \\ 1054$	Uterus	1			2100	Oan plauder
1154	Bone	1	165 Stomach	1		
1318	Breast	1	729 Intestines	1	1	Divisadero Street
1310	Dicast	_	839 Oesophagus	1		Stomach
		10			70 70	Uterus
	Coleridge Street	10	Contra da contra	3	224	Oesophagus
		1	Cortez Avenue		446	Ear
72	Stomach	1	101 Peritoneum	1	800	Stomach
85	Uterus	1			820	Stomach
		2	Cortland Avenue		841	Rectum
	Collins Street	4	120 Stomach	1	929	Stomach
			210 Stomach	1	1050	Breast
50	Uterus	1	430 Breast	1	1123	Gall bladder
C	ollingwood Street		1225 Stomach	1	1229	Uterus
	Breast	1			1244	Stomach
33	Uterus	1		4	1544	Rectum
258	Stomach	1	Crocker Avenue		1621	Uterus
280	Breast	1	138 Breast	1	1707	Breast
442	Stomach	1			1907	Stomach
112	otomacn		Crown Terrace		2224	Prostate
		5	58 Nose	1	2226	Bones
0	Columbus Avenue				2308	Stomach
36	Tongue	1	Curtis Street		2320	Kidney
217	Liver	î	19 Uterus	1	2344	General
248	Bladder	i			2345	Uterus
444	Pancreas	î	Cushman Street		2563	Liver
955	Uterus	î	134 Breast	1	2737	Larynx
1229	Stomach	ĩ			2740	Tongue
			Cumberland Street		3125	Uterus
		6	67 Liver	1		
	Cook Street		252 Stomach	1		Dodge Street
58	Uterus	1			10	Bone
00		10475		2	10	
	Clinton Park		Danvers Street			Dolores Street
1440	Uterus	1	222 Uterus	1	161	Tongue
271	Liver	1			180	Stomach
2.1.2			Dearbon Street		214	Uterus
		2	22 Intestines	1	268	Intestines

By Streets and Houses-Continued

Dole	ores Street-Cont	inued	540	Intestines	1	4256	Liver	1
281	Pancreas	1	555		î	4404		1
394		î	640		î	4557		î
475		î	814		- î	4558		- î
675		î	815		î	1000	Rectum	1
695		î	878		- î			16
742		î	907		- î			
806		i i	951	Uterus	i		Eighth Avenue	
890		î	1257		î	142	Breast	1
937		i	1658		i	159	Breast	1
1062		î	1749		î	185	Liver	1
1076		î				260	Uterus	1
1198		î			14	292	Intestines	1
1316		î		Edgewood Avenue		456	Stomach	1
1317	Stomach	î				658	Bladder	1
1322	Uterus	î	183	Liver	1	755	Intestines	1
1427	Prostate	1		ELL DI		1266	Bone	1
1516	Kidney	1		Edith Place		1284	Liver	1
1563	Stomach	1	56	Skin	1	1326	Uterus	1
1603	Oesophagus	1				1370	Stomach	1
1662	Intestine	1		Eastwood Drive		1463	Bladder	1
			149	Liver	1			
		24						13
	Donner Avenue			Edinburgh Street				
1890	Stomach	1	573		1	Eight	Avenue & Gea	ry St.
			698	Gall bladder	1		Neck	1
	Douglas Street		914	Breast	î			
217	Stomach	1			_		Eighth Street	
228	Stomach	1			3	501	Pancreas	1
709	Liver	1		Egbert Avenue		505	Larynx	1
735	Jaw	1	1051					
			1251	Breast	1			2
	D	4					Eleventh Street	
131	Downey Street		E	lighteenth Avenue		165	Oesophagus	1
	Stomach	1	218	Peritoneum	1	100	ousephingus	
$\frac{151}{215}$	Larynx	1	248	Kidneys	1		Elgin Park	
215	Stomach	1	235	Bladder	1	24		1
			433	Nose	1	64	Lung	î
	Duboce Street	3	560	Breast	1	04	Lung	1
134	Stomach		615	Larynx	1 .			2
263	Stomach	1	1241	Liver	1		Elizabeth Street	
422	Stomach	1	1863	General	1			
450	Breast	1					Uterus	1
573	Stomach	1			8	748	Uterus	1
726	Stomach	1	I	lighteenth Street		760	Gall bladder	1
		1	1144	Brain (10 yr.)	1			
		6	1532	Stomach	1			3
	Duncan Street	0	3272	Kidney	1		Elsie Street	
971	Pancreas		3510	Liver	î	193	Peritoneum	1
166		1	3667	Prostate	î	243	Testes	1
100	Stomach	1	3802	Breast	i			-
		0		Stomach	î			2
	ELL C	2	4017	Rectum	î		Ellert Street	-
-	Eddy Street		4039	Intestines	1	33	Breast	1
335	Stomach	I	4042	Breast	1	- 00	Dicast	T
387	Uterus	1	4145	Eye	1	E	llington Avenue	
387	Stomach	I	-4255	Uterus	1		Stomach	1
						10 C 10		

	Ellis Street		E	Excelsior Avenue			Fifteenth Street	
68	Intestines	1	639	Liver	1	1918	General	1
409	Stomach	î	641	Gall blalder	ĩ	1927	Uterus	ĩ
433	Lung	ĩ	0.11	oun philaci		1959	Stomach	î
480	Stomach	1			2	1959	Stomach	î
516	Intestines	ĩ		Fair Avenue	~	2024	Intestines	1
710	Breast	î					11100111100	_
928	Stomach	î	39	Face	1			5
948	Tongue	î	42	Intestines	1	F	Fifteenth Avenue	~
1347	Stomach	î	49	Liver	1	106	Peritoneum	1
1347	Stomach	i					Stomach	î
1388	Larynx	î			3	365 444	Rectum	î
1428	Gall bladder	î		Fairfax Avenue		485	Liver	î
1492	Rectum	î	1150	Pancreas	1	610	Uterus	î
1717	Stomach	î	1241	Pancreas	1	1223	Bladder	î
1741	Breast	î				1318		1
1849	Stomach	î			2	1318	Tongue Liver	1
1885	Stomach	î		Fair Oaks Street		1999	Liver	1
1908	Stomach	î	92	Stomach	1			8
1968	Stomach	î	189	Stomach	î		Fifth Street	0
1500	Stomach		301	Intestines	î			1
		19	322	Larynx	î	55	Larynx	1
	Elisworth Street	19	443	Stomach	î	55	Rectum	1
100			110	oronnaen		131	Stomach	1
103	Stomach	1			5	135	Prostate	1
	Embarcadero		1	Farallones Street		141	Stomach	1
100			10.000		1	499	Pancreas	1
132	Mouth	1	230	Tongue	1			-
146		1		Farren Street				6
259		1					Fifth Avenue	
259	Liver	1		Vulva-vagina	1	41	Bladder	1
		-	$42\frac{1}{2}$	Bladder	1	203	Uterus	1
	F U D J	4				245	Lungs and pleura	1
	Endicott Park				2	329	Liver	1
30	Stomach	1		Fell Street		549	Jaw	1
42	Pancreas	1	446	Uterus	1	583	Liver	1
48	Intestines	1	470	Stomach	ĩ	590	Rectum	1
			547	Stomach	î	626	Peritoneum	1
		3	550	Lungs and pleura	i	650	Stomach	1
	Enterprise Street		615	Intestines	î.	658	Breast	1
11	Breast	1	647	Intestines	î	691	Oesophagus	1
			822	Stomach	1	1207	Stomach	1
	Euclid Street		829	Breast	1	1216	Ear	1
124		1	870	Intestines	1	1244	Gall bladder	1
324	Bones	1	949	Oesophagus	1	1251		1
			1035	Oesophagus	1	1419	Intestines	1
		2	1146	Stomach	ĩ	1425	Rectum	1
	Eugenia Avenue		1146	Stomach	1	1454	Liver	1
24	Stomach	1	1272	Stomach	1			
412		1	1358	Stomach	1		and the second	18
			1646	Liver	1		Filbert Street	
		2	1732	Intestines	1	554	Bladder	1
	Eureka Street		2058	Intestines	1	559		1
155		1	2059	Intestines	1	760		1
227		1	2088	Intestines	1	987	Intestines	1
272		i	2090	Testes	1	1135	Lungs	1
212	Stomach	-	2050			1235	Lungs and pleura	1 1
		3			21	1704	Stomach	1

Filb	ert Street-Contin	ued		1038	3 Oesophagus	1	Į.	orty-eighth Avenu	
1744	Rectum	1		105		î			c
1759		î			Ba Gall bladder	î	762	Uterus	1
1774		î		137		î	I	orty-ninth Avenue	
1782		÷		1534		1			e ,
2122				1641			1430	Ocsophagus	1
2251		- 5		1675		1		Fourteenth Street	
	Tongue	1				1	247		
2490	Ovaries	1		1990		1			1
2512	Peritoneum	1		2022		1	454		1
2825	Breast	1		2376		1	716		1
				2423		1	744		1
		16		2489		1	1032	Stomach	1
	Fillmore Street			2598	Brain	1	1089	Intestines	1
230	Intestine	1		2652	Intestines	1			
520	Uterus	1		2669	Throat	1			6
607	Ear	1		2724		î		Fourth Avenue	
646		1		3348		î	153	Liver	1
648	Lungs and pleura	1 1		3340		1	216	Stomach	î
	Stomach	1		3353		1	429	Intestines	1
649	Liver	1		3936		1	582	Bladder	1
663	Intestines	1		3930	Stomach	1	632		1
730	Breast	1						Breast	1
898	Jaw	1				24	579	Stomach	1
1037	Bladder	1		F	orty-second Avenue		663	Intestines	1
1550	Lung	1			Oesophagus	1	1215	Breast	1
1840	Intestines	1		0.0	Ocsophagus		1231	Intestines	1
1912	Uterus	1		J	Forty-third Avenue		1314	Oesophagus	1
1917	Breast	î					1316	General	1
	Neck	î		682		1			
2302	Uterus	1		850	Uterus	1			11
2518	Breast	- 1						Fourth Street	11
2529		4				2	44	Uterus	1
2548	Larynx	1		F	orty-fourth Avenue		83	Breast	1
2607	Intestines	1					85		1
	Rectum	1		535		1		Liver	1
2924	Lungs	1		876		1	108	Oesophagus	1
3043	Stomach	1		1351	Stomach	1	192	Stomach	1
				1447	Uterus	1	193	Stomach	1
		22				-	192	Liver	1
	First Street					4	193	Stomach	1
269	Stomach	1		I	Forty-fifth Avenue		194	Stomach	1
	Pancreas	1	. *		Liver	1 .	247	Stomach	1
000	rancicas	1		1011	Laver	1	397	Stomach	î
		0		17			650	Oesophagus	î
	Flora Store	2			orty-sixth Avenue		000	occophiagus	
	Flora Street			875	Bones	1			12
66	Larynx	1		1223	Bones	1	F	urteenth Avenue	12
	EL 11 G			1435	Stomach	1	295	Liver	
	Florida Street								1
849	Bladder	1				3	508	Intestines	1
1178	Stomach	1		Fo	ty-seventh Avenue	3	1229	Uterus	1
1227	Lip	1					1234	Rectum	1
1509	Rectum	1		724	Face	1			
				745	Ovary	1			4
		4		748	Ovary	1		First Avenue	100
	Folsom Street	.4		1233	Rectum	1	303	Intestines	1
564				1265	Breast	1		Intestines	î
564	Bone	1		1275	Oesophagus	1		Breast	î
830	Stomach	1		1526	Rectum	1		Intestines	1
926	Rectum	1			100000000000000000000000000000000000000		2004	Antestines	1
977	Liver	1				7			4
									4

Fifth Avenue and Ge	ary	491	Stomach	1	909	Tongue	1
Street-(French Hosp		579	Peritoneum	1	965	Liver	1
Larynx	1				970	Bladder	1
			_	6	970	Uterus	1
Fijth Avenue and Mis	sion		Freemont Street		990	Stomach	1
Street—(Lick Hotel		336	Stomach	1	1035^{*}	Bladder	1
	1				1035	Liver	1
Tongue	1		Fulton Street		1035	Breast	1
	. 1	326	Kidney	1	$1035 \\ 1457$	Liver	1
Fourteenth Avenue a			Uterus	î ·	1457	Ocsophagus Intestines	- î
Lake Street— (U, S)	·.	670	Stomach	1	1409	Intestines	î
Marine Hospital)		891	Stomach	1	1752	Pharynx	î
Bone	1	917	Stomach	1	1898	Liver	î
			Uterus	1	1941	Breast	î
Fourteenth Street and	Noe	1116	Intestines	1	1983	Rectum	î
Street—(Franklin		1314	Larynx	1	2750	Uterus	î
Hospital)		1368	Larynx	1	3408	Stomach	î
Oesophagus	1	1374	General	1	3434	Liver	î
Liver	1	1415	Stomach	1	3650	Stomach	î
Stomach	1	1451	Uterus	1	4037	Uterus	î
Brain	1	1465	Uterus	1	4100	Bladder	î
		1733	Rectum	1	4221	Uterus	ĩ
	4	2271	Stomach	1	4744	Stomach	î
		2295	Vulva	1	5234	Heart	î
Francisco Street		2496	Oesophagus	1	5514a		1
354c Stomach	1	3820	Rectum	1	6041	Intestines	1
828 Breast	1	3950	Rectum	1	7555	Stomach	1
		6000	Breast	1	1000		
	2						41
Franconia Street				20	*Charle	magne Apts	
339 Intestines	1		Ford Street		Canality	anagere erf -	
		16	Peritoneum	1		0 DI	
Franklin Street		178	Oesophagus	1		Genoa Place	
20 General	1		o ano pangao		43	Oesophagus	1
27a Jaw	1			2			
45 Rectum	1		Funston Avenue			Girard Street	
335 Stomach	1	144	Kidney	1	440		1
986 Uterus	1	584	Stomach	î	442	Stomach	1
1029 Intestines .	1	2320	Uterus	î	896	Breast	1
1047 Breast	1	2324	Stomach	î			2
1047 Bladder	1	2024	Stomach	-		Gladys Street	4
1200 Uterus	1			4	0		
1350 Stomach	1		Geary Street		8	Stomach	1
1740 Intestines	1	959		1			
1856 Bone	1	352 353	Uterus Pancreas	1		Gaven Street	
2415 Heart	1	432	Uterus	1	49	Intestines	1
2445 Breast	1	452	Intestines	i	4.5	Intestines	
2536 Intestines	1	410	Stomach	î			
3050 Uterus	1	493	Bone	î		Godeus Street	
		493	Gall bladder	î	- 39	Stomach	1
	16	505	Lung	î	39	Uterus	1
Frederick Street		505	Breast	î	55	Breast	1
115 0 1	1	600	Uterus	î			
115 Stomach	1	795	General	i		-	3
151 Face 211 Uterus	1			1		Goethe Street	
711 LIPPIIS	1	10	Slomach				
422 Stomach	1	795 860	Stomach Breast	1	170	Bone	1

G	olden Gate Aven	ue		Great Highway			Guerrero Street	,
801	Uterus	1	1462	Breast	1	47	Uterus	1
930	Stomach	î	1798	Stomach	î		Stomach	1
1078	Bladder	î	1798	Gall bladder	÷	144		1
1141	Tongue	î	1120	Gan manuer	1	146	Intestines	- ÷
1259	Lung	-			-		Uterus	1
1273	Uterus	1		0 0	3		Pancreas	1
1281		1		Green Street		256a	Tonsil	1
	Uterus	1	612	Lungs and pleura	1 1	290a	Prostate	1
1293	Intestines	1	736	Intestines	1	514	Intestines	1
1386	Liver	1	1067	Uterus	1	613	Pharynx	1
1396	Stomach	1	1123	Neck	î	628	Larynx	1
1504	Uterus	1	1241	Liver	1		Breast	î
1511	Breast	1	1265	Tongue	÷.	650	Rectum	î
1524	Liver	1	1629	Rectum	1	717	Uterus	1
1700	Liver	î			÷			1
1737	Prostate	î	1866	Pancreas	1	741	Liver	1
1763	Breast	î	1899	Breasts	1	744	Breast	1
1763	Breast	1	1912	Oesophagus	1	861	Stomach	1
1951	Stomach	1	2041	Uterus	1	1023	Bone	1
2059		1	2080	Rectum	1	1161	Stomach	1
	Liver	1	2134	Pancreas	1	1203	Bladder	1
2122	Oesophagus	1	2277	Liver	1	1317	Breast	1
2158	Uterus	1	2508	Intestines	1	1348	Uterus	1
2158	Intestines	1	2778	Breast	i	1408	Uterus	1
2766	Liver	1		and other	_	1417	Kidney	ĩ
2866	Intestines	1			16	1618	Ovary	i
		-	(Greenwich Street	10	1010	Ovary	1
		24						24
	C 1 C		463	Stomach	1			24
	Gough Street		639	Stomach	1	-		
1135	Liver	1	892	Liver	1		<i>uttenberg</i> Stree	t
2525	Liver	1	911	Liver	1	22	Liver	1
			918	Stomach	1			
		2	927	Peritoneum	î			
		-	1135	Uterus	î		Guy Place	
1	Granada Avenue		1161	Peritoneum	î	17	Bladder	1
	Uterus	120	1321	Ovary	1	1.	madder	
2.54	Cterus	1	1765	Stomach	1			
			1776	Intestines	1		Haight Street	
	Grant Avenue				1	260		
321			2196	Stomach	1		Intestines	1
	Breast	1	2462	Uterus	1 .		Lung	1
710	Rectum	1	2775	Neck	1	459	Intestines	1
745	Stomach	1				522	Prostate	1
823	Ocsophagus	1			14	632	Lungs	1
823	Stomach	1	Gr	eenwood Avenue		619	Stomach	1
824	Nose	1		Peritoneum		879	Uterus	1
832	General	1	05	remoneum	1	946	Intestines	1
924	Liver	1					Breast	î
944	Brain	1		Grove Street		1128	Ovaries	î
1058	Intestines	1	614	Lungs and pleura	1	1190	Uterus	î
1416	Stomach	î	7163	Liver	î	1190	Intestines	1
1434	Stomach	1	940	Lungs	î		Intestines	1
1449	Stomach	î	1375	Uterus	î			1
1644	Brain	1	1614	Stomach	î		Stomach	1
	101 ann	1	1672	Uterus	1		Liver	1
		14	2244		1		Uterus	1
		14		Breast	1	1647	Breast	1
	Granville Way		2256	Liver	1	1696	Stomach	1
274		1			0			
					8			18

By Streets and Houses—Continued

1	lampshire Street		1	lighland Avenue		3	Hartford Street	
610	Stomach	1	31	Breast	1	29	Stomach	1
821	Breast	1	143	General	ĩ	57	Stomach	ĩ
864	Stomach	1		Lip	ĩ	142	Tongue	ĩ
964	Uterus	1	010	- P	_	155	Stomach	ĩ
1125	Bladder	î			3	232	Rectum	ĩ
1208	Stomach	î	11	DI.		202	Rectum	
1218	Breast	î		immelmann Plac	ce			5
1263	Skin	1	20	Stomach	1			0
1284	Stomach	1						
1535	Uterus	1		Hoffman Avenue				
1000	Oterus	T		Peritoneum			Howard Street	
		10	210	Peritoneum	1	195	Lung	1
	Hancock Street	10				427	Mesentery	1
12.272				Hollis Street		672	Stomach	1
118	Stomach	1	42	Pancreas	1	672	Stomach	1
121	Liver	1	42	1 ancicas		675	Prostate	1
				1 12 12 13		675	Stomach	1
	and the and the	2	I	Iolladay Avenue		675	Stomach	1
	Hanover Street		312	Stomach	1	675	Intestines	1
487	Kidneys	1	448	Lung	1	678	Lungs	1
				String		718	Stomach	1
	Hayes Street				2	753	Intestines	ĩ
0.00				Hamman Tarraca		753	Testes	î
329	Intestines	1		Hemway Terrace		753	Lip	î
430	Uterus	1	12	Stomach	1	753	Stomach	î
482	Intestines	1				753	Larynx	î
554	Stomach *	1	7	Holly Park Circl		753	Prostate	î
760	Tongue	1			1	753	Oesophagus	î
795	Stomach	1	431	Uterus	1	774	Liver	î
912	Skin	1				789	Stomach	î
923	Stomach	1		Henry Street		825	Stomach	î
965	Intestines	1	15	Rectum	1	917	Uterus	1
1173	Stomach	1	66	Stomach	1	.964	Stomach	1
1227	Liver	1	147	Liver	1			1
1330	Stomach	1			1	1054	Neck	1
1362	Liver	1	156	Ovary	1	1124	Liver	1
1534	General	1			4	1264	Uterus	1
1590	Stomach	1		I Sures	4	1264	Stomach	1
1752	Liver	i	1	Homestead Stree		1510	Prostate	1
1755	Intestines	i	57	Pancreas	1	1701	Stomach	1
1821	Breast	î				1788		1
2166	Stomach	î		II Circat		1826	Intestines	1
2200)	^		Harrison Street			Stomach	1
	Ovary	1	456	Intestines	1		Face	1
to 2300	(Ovary	1	756	Stomach	1	1846	Bone	1
2500	/	20	758	Stomach	1	2020	Stomach	1
	Hickory Avanua	20	868	Neck	1	2033	Liver and g. b.	1
10792	Hickory Avenue		876	Rectum	1	2041	Stomach	1
306	Stomach	1		General	1	2188	Breast	1
477	Uterus	1		Uterus	1	2289	Stomach	1
			2743	Stomach	1	2405	General	1
		2	2872	Uterus	1	2689	Stomach	1
	Hill Street		2890	Neck	1	2725	Intestines	1
241	Bladder	1	2965	Larynx	1	2894	Uterus	1
41	Pancreas	1	3249	Neck	1	$2921\frac{1}{2}$	Stomach	1
495	Breast	1	3271	Breast	1	2995	Stomach	1
100	Dicust		Jar. I					-
		3			13			44

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		20						
	Howth Street		610	Tongue	1	1608	Intestines	1
106		1	658		1	1801		1
		1	730		1			1
448	Lung	1	758		1	2327		1
					1	2336	Stomach	1
		2	786		1			
	Hudson Avenue		934		1			11
1544	Oesophagus	1	947		1		Joost Avenue	
	Fungue		1052		1	579	Stomach	1
	Hugo Street		1064	Uterus	1	0.2	Cromach	1
139	Uterus	1	1068	Bone	1		Jordan Avenue	
		1	1100	Breast	1	125		1
425	Oesophagus	1	1251		î	176		1
525	Pancreas	1	1260		1	110	Stomacn	1
			1460		1			
		3	1730		1			2
	Hyde Street				1		Jersey Street	
335	Breast	1	1817	Stomach	1	222	Throat	1
920	Liver	1	1824		1	236		î
		1	1830	General	1	240		1
1017	Intestines	1	1867	Larynx	1	283		1
1221	Uterus	1	1925	Tongue	1			1
1224	Prostate	- 1	2196	Rectum	î	292		1
1360	Stomach	1	2271	Rectum	î	385		1
1369	Gall bladder	1	2401	Stomach	1	454		1
1464	Stomach	1	2518		1	454	Rectum	1
1502	Rectum	1		Prostate	1			
1539	Uterus	î	2518	Uterus	1			8
1650	Breast	î	2900	Bones	1		Judah Street	~
1652	Kidney	1	2907	Intestines	1	010		
1703		1	2940	Breast	1	219	Pancreas	1
	Stomach	1	2979	Bladder	1	530	Breast	1
1767	Breast	1	3018	Stomach	ĩ			
2617	Tongue	1	3430	Breast	î			2
			3485	Kidney	î		Julian Avenue	
		15	3505	Intestines	1	107		
	Herman Street		3653		1	125	Liver	1
254	Liver	1	0000	Lung	1	150	Rectum	1
	LATON .	1				153	Mouth	1
	Imperial Alley				37			
12	Intestines	1		Jasper Place				3
1.4	Intestines	1	43	Uterus	1		Juniper Street	
	Ingalls Street		10	otorus	1	1.40		
2026		2		Jessie Street		140	Stomach	1
3236	Liver	1	180	Stomach	1		Kansas Street	
	Ingerson Avenue				1			
			181	Lip	1	651	General	1
1054	Uterus	1				715	Stomach	1
	1				2			-
	Irving Street			Johnston Avenue				2
430	Bladder	1	18	Uterus	1		Kearney Street	0.000
450	General	1	27	Breast	2			
4532	Stomach	1				144	Intestine	1
					3	528	Stomach	1
		3		Jones Street	3	549	General	1
	Ivy Avenue	5			32	706	Oesophagus	1
074			11	Rectum	1	901	Stomach	1
254	Intestines	1	352	Stomach	1	1145	Lung	1
	Inches Com		729	Intestines	1	1219	Stomach	î
	Jackson Street		801	Rectum	1	1431	Bladder	î
46	Neck	1	962	Tongue	1	1448	Intestines	1
68	Stomach	1	1456	Bone	î	1410	Antestifies	1
214	Liver	1	1457	Intestines	î			_
		10.9450		anteoninea.	*			9

	Key Avenue			Liver and g. b	. 9		Larch Street	
1125	Neck	1		Intestines	10	702	Uterus	1
1157	Larynx	î		Oesophagus	6	783	Uterus	î
*****	Lan yn a	_		Bladder	4			
		2		Head	1			2
	Kimball Place			Lungs and plet	ura l			
1	Prostate	1		Eye	4		Larkin Street	
1	Tiostate	*		Breast	30	923	Breast	1
	Kirkham Street			Face	4	945	Breast	1
617	Stomach	1		Larynx	8	1263	Bone	1
3346	Pancreas	î		Peritoneum	1	1407	Lungs and pleu	ra 1
0010	1 unorouo	_		Tonsil	1	1332	Breast	1
		2		Vulva and vagi	ina 1	1427	Uterus	1
	Kissling Street	172.0		Lip	1	1430	Intestines	1
119	Gall bladder	1				1435	Uterus	1
115	Oan Madder	· ·			302	1492	Ovary	1
	Knox Street			Lake Street		1516	Stomach	1
106	Stomach	1	39	Breast	1		Bladder	1
100	Stomach	-	135	Breast	1	1736	Intestines	1
	Lafayette Street		247	Bladder	1	1831	Stomach	1
20	Rectum	1	300	Stomach	1	2040	Uterus	1
54	Liver	î	300	Skin	1	2051	Intestines	1
66	Intestines	î	300	Stomach	1	2125	Liver	1
00	Intestines	*	832	Ovary	1	2224	Prostate	1
		3	934	Stomach	1	2245	Breast	1
	Tamuna Street	0	1457	Stomach	1	2332	Prostate	1
	Laguna Street		1520	Stomach	1	2345	Bladder	1
251	Uterus	1	1630	Breast	î	2409	Uterus	1
703	Jaw	1			1	2421	Uterus	1
122	Oesophagus	1	2733	Neck	1	2632	Uterus	1
1734	Vulva	1			12	2656	Breast	1
1833	Liver	1				2000	Di cucc	
2010	General	1	Lake	St. and Fourth	Ave.—			24
2297	Stomach	1	(L)	e Breton Home	for		Latona Street	
2549	Rectum	1		Aged)		06		1
2757	Stomach	1		Stomach	8	86	Breast	1
3013	Intestines	1		Breast	1		Laura Street	
				Dicast		20	Throat	1
		10			9	29	Inroat	1
				T I Com	-		Laurel Street	
Lagu	na Honda Blvd.,	near		Landers Street		192	Bone	1
De	wey Blvd(Rela	ief	84	Uterus	1	120	Done	*
	Home)		141	Oesophagus	1	1	e Conte Avenu	e
	Uterus	39					Stomach	1
	Stomach	75			2	1130	Stomach	
	Prostate	23		Lane Street			Lee Avenue	
		18	1207	Stomach	1	248	Oesophagus	1
	Tongue	12				240	Ocsophagus	*
	Rectum	9		Langton Street			Leland Avenue	
	Bone		136;	Larynx	1	119	Tongue	1
	Jaw	17		Liver	1	112	Tongue	1
	Neck	11					Lexington Street	
	Pharynx	2			2	167	Intestines	1
	Skin	2 2 3 3		Lapidge Street				1
	Pancreas	3	(0)	Liver	1	176	Stomach	1
	Ear	3	09	Liver	I	274	General	1
	General	1		Ta Diana Char		356	Eye	1
	Throat	1		La Playa Stree	l .			
	Nose	5	1306	Skin	1			4

	Liberty Street		205	7 Prostate	1	100		
0					1	120		1
9	¹ / ₂ Pancreas	1	227.	3 Stomach	1	1208		1
						1272	2 Stomach	1
	Lily Street				9	1412	2 Intestines	1
183	Prostate	1		Lundy's Lane		1872		î
235		î	11:		1	2091		1
200	oromach	1	11.	5 otomacu	1	2160		
				Lyon Street				1
	T	2	04			2246	Stomach	1
	Linares Avenue		29		1			
40	Stomach	1	33		1			13
			52		1		Martha Avenue	
	Linden Street		111	Liver	1	70		
440			114	Breast	1	-70	Stomach	1
442	-	1	120		î			
473	Intestines	1	323		1	Ma	son Street-(Min	ster
482	Stomach	1	641		1		Hotel)	
496	Stomach	1	713		1	312		
617	Bladder	1			1	512	General	1
				a Face	1			
		õ	1309		1		Mateo Street	
	T . I		1322		1	136	Stomach	1
	Lisbon Street		1725	Intestines	1			
39	Oesophagus	1					Masonic Avenue	
230	Rectum	1			13	10000		
379	Brain	î	,	1.0		639	Oesophagus	1
427	Uterus	1		eavenworth Stree	1	720	Rectum	1
121	oterus	1	540	Lung	1	736	Brain	1
			540		1	1126	Intestines	1
		4	645		î	1150	Bladder	1
	Lloyd Street		645	Breast	1	1221	Rectum	1
30	Pancreas	1	1045	Liver	1	1306		1
68	Brains	1	1136		1	1300	Oesophagus	1
00	Drains	T		Stomach	1			
			1207	Breast	1			7
		2	1301	Rectum	1	1	McCoppin Street	
	Lobos Street		1450	Rectum	1	39	Liver	1
43	Stomach	1	1501	Stomach	1		LATOL .	1
237	Bone	î	1540	Stoniach	1		Merced Avenue	
			1717	Stomach	î			
		2	1815	Breast	î	60	Rectum	1
	Locust Street	2	2231	Uterus	1			
			6601	oterus	1		Middle Street	
312	Prostate	1				45		
					14	45	Bladder	1
	London Street			Madrid Street			1111 0	
129	Rectum	Si	169	Bladder	1		Milton Street	
254	Throat	1		2222 23 24 C		130	Breast	1
201	Amout	1		Main Street				
			450	Oesophagus	1		Minna Street	
		2		- coopinagao		349		
	Louisberg Street			Maple Street			Intestines	1
162	Stomach	1	308	Breast	1	465	Uterus	1
			322		1	681	Pharynx	1
1	Lombard Street		044	Breast	1	751	Stomach	1
	Lung					1366	Liver	1
440-	Posture	1		14 1 2	2			
500	Rectum	1		Market Street				5
	Stomach	1	639	Breast	1	1	liramar Avenue	9
530	Liver	1	639	Lung	î			12
	Breast	1		Intestines	1		Intestines	1
1840	Stomach	1	883	Lungs	1	640	Bladder	1
1870	Bladder	1	1146	Liver	1			
		<u> </u>	1140	LIVEL	1			2

By Streets and Houses-Continued

		Бу	Streets	and nouses-Co	ontinueu			
	Mission Street			Missouri Street			Natick Street	
689	Pharynx	1	160	Intestines	1	31	Liver	1
819	Tongue	î	219	Uterus	ĩ			
819	Neck	î	533	General	ĩ		Natoma Street	
971	Intestines	î	000	oonorat		522	Breast	1
1146	Stomach	î			3	585	Intestines	î
1453	Prostate	î		Mono Street		617	Neck	î
1722	Intestines	î	920	General	1	628	Breast	î
2028	Uterus	î	230	General	1	1017	Ovary	î
2020	Rectum	î		Montana Street		1020	Uterus	î
2042	Lung	î			1	1020	Ovary	î
2175	Stomach	1	242	Oesophagus	1	1002	Ovary	_
2176	Gall bladder	î	M	ontgomery Street				7
2191	Jaw	î		Neck	1		Naylor Street	
2580	Rectum	î	628	Pancreas	1	225	Uterus	1
2861	Neck	î	735	Intestines	1	660	Oterus	<u></u>
3045	Stomach	î			1		Neptune Street	
3219	Oesophagus	1	1024	Gall bladder	1			
3307	Pancreas	1	1116	Uterus	1	18	Stomach	1
3342	Breast	1	1		5			
3372	Stomach	î		Morse Street	5		Nevada Street	
3438	Pancreas	1				502	Uterus	1
4294	Skin	î	625	Bone	1			
4835	Stomach	î				N	ewcombe Avenue	
4000	Stomach			Moscow Street			Heart	1
		23	419	Rectum	1	1383	Uterus	1
						1737	Oterus	÷
				Moss Street				2
	M. Alline Stead		10	Bone	1		N. C	2
	McAllister Street			Rectum	1		Newman Street	
126	Prostate	. 1	56	Stomach	1	124	Intestines	1
637	Stomach	1	1920					
766	Bladder	1			3		Newhall Street	
786	Stomach	1		Moulton Street		1201	Pancreas	1
828	Intestines	1	202	Stomach	1	1515	Lungs	1
917	Stomach	1	202	1)tomach		1010	Dungo	
962	Peritoneum	1		Moultrie Street				2
1095	Liver	1	278	Breast	1		N. C	
1211	Intestines	1		Stomach	î		Ney Street	
1427	Rectum	1	376		1	102	Uterus	1
1438	Stomach	1	623	Lung Stomach	î	146	Stomach	1
1464	Intestines	1	025	Stomacn				_
1622	Stomach	1			4			2
1818	Liver	1		Munich Street			Nineteenth Street	
1929	Liver	1	0.00		1			1
1986	Breast	1	228	Stomach	1	1200	Stomach Gall bladder	1
2516	Uterus	1	230	Stomach	1	1200	Gall bladder	1
2536		1			2	1221		1
2646		1		Number Allen	4	2815	Stomach	î
2739	Uterus	1		Napier Alley		3620	Ovary Stomach	î
3050		1	4	Uterus	1	3647	Stomach	î
3196	Intestines	1		Naples Street		3672	Stomach	î
		22			1	3987 4027	Stomach	i
		22	9		1	4027		î
			623	Intestines	1	4039		1
			944	Stomach	1	4510	Dicust	_
	Mississippi Stree				3			11
427	Oesophagus	1			0			

Λ	ineteenth Avenue	e	639		1	1712	Stomach	1
261	Stomach	1	642		1	1849	Peritoneum	1
665	General	1	799	Uterus	1	1868	Breast	1
1269	Pancreas	i	799	Kidney	1	2032		1
1475	Breast	î	829		1	2075		1
1694	Uterus	1	914		î	2123		î
1034	Oterus	1	958	Rectum	î	6169	ocherar	*
		-	986	Intestines	1			21
		5	1073		1		01: 0	4+
	Ninth Avenue			Neck	1		Olive Street	
140	Breast	1	1107	Bones	1	684	Pancreas	1
218	Rectum	1	1140	Uterus	1			
218	Rectum	1	1153	Stomach	1		Oliver Street	
233	Intestines	1	1153	Uterus	1	16		
258	Gall bladder	î	1167	Uterus	1	16	Stomach	1
263	Tonsil	1	1174	Stomach	1			
334	Rectum	1	1427	Uterus	1		Orizaba Avenue	
		1	1617	Liver	1	22	Liver	1
420	Pharynx	1				22	LAVEI	1
427	General	1			23			
436	Stomach	1		01 10	20		Polk Street	
445	Oesophagus	- 1		Oakwood Street		743	Uterus	1
618	Pancreas	1	41	Ovary	1	915	Uterus	î
642	Stomach	1				1242	Pancreas	î
664	General	1		Octavia Street		1315	Bladder	1
716	Intestines	1	8	Uterus	1	1544	Uterus	1
1270	Stomach	1	129	Stomach	1	1618		1
1280	Uterus	1	263		1		Stomach	1
1322	Uterus	î		Head	1	1740	Rectum	1
1327	Stomach	1	306	Stomach	1	2460	Mouth	1
1480	Intestines	1	405	Bladder	1	2537	Oesophagus	1
1621	Bladder	1	405	Stomach	1			
1021	Diadder	1	523	Stomach	1			9
		01	1159	Uterus	1		Post Street	
	7327 1378	21	1230	Ovary	1	1000000		
	Noe Street		1526	Breast	1	775	Stomach	1
23	Stomach	1	1661	Intestines	1	775	Intestines	1
25	Stomach	î	2855	Stomach	1	851	Rectum	1
69	Uterus	1	3022	Uterus	ĩ	921	Intestines	1
173	Liver	1				1075	Uterus	1
190	Oesophagus	1			13	1086	Uterus	1
254a		1		010 11 0	10	1355	Ovary	î
		1		O'Farrell Street		1491	Stomach	î
510	Breast	1	235	Stomach	1	1629	Stomach	1
	Intestines	1	340	Lip	1	1676	Stomach	1
568	Stomach	1	341	Liver and g. b.	1	1719	Stomach	1
766	Ovary	1	436	Breast	1			1
925	Stomach	1	545	Uterus	î	1818	Prostate	1
1033	Stomach	1	580	Throat	î	1920	Rectum	1
1083	Stomach	1	641	Breast	1	1920	Intestines	1
1223	Bone	1	700	Oesophagus	î	2323	Liver	1
1373	Liver	1	755	Stomach	1	2392	Stomach	1
			820		1	2503	Gall bladder	1
		15		Breast	1	2573	Stomach	1
	Oak Street	10	835	Appendix	1	2589	Throat	1
110			1124	Stomach	1			_
110	Uterus	1	1165	Lung	1			19
268	Liver	1	1175	Bladder	1			17
268	Bladder	1	1281	Stomach	1	1	Potrero Avenue	
457	Liver	1	1395	Prostate	1	914	Bladder	1
466	Skin	1	1614	Peritoneum	1	960	Liver	1
608	Rectum	1	1614	Uterus	1	1062	Breast	î

By Streets and Houses-Continued Potrero Avenue-Prospect Avenue Palm Avenue Continued 209 Uterus 1 19 Breast 1086 Intestines 1 23 Breast 1146 Oesophagus 1 42 Intestines 1208 Stomach 1 63 Stomach 105 Intestines 112 Intestines

1208	Stomach	1
		6
	ro Avenue and eet—(San Franci Hospital)	
	Lungs	2
	Larynx	$^{2}_{1}$
	Rectum	1
		4
	Powers Avenue	4
34	Liver	1
0.07	Prague Street	
327	Breast	1
	Precita Avenue	
22	Stomach	1
215	Liver	1
225	General	1
351	Uterus	1
425	Oesophagus	1
		5
	Prentiss Street	
80	Liver	1
	Presidio	
	Tongue	1
	Stomach	1
	Rectum	1
	Stomach	1
	Liver	1
	Lungs	1
		6
	Presidio Avenue	
	Lungs	1
	Stomach	î
744	Diomaca	
		2
	Presidio Terrace	
4	Lungs	1
10	Oesophagus	1
		2
Prine	ceton Street-(L	ick's
0	ld Ladies' Home	2)
400		2
400	intestines	4

		_
	Prosper Street	
0.0		
23	Ocsophagus	1
	Putman Street	
0.0		
80	Liver	1
	Pacific Street	
15		
15	Uterus	1
335	Intestines	1
	Stomach	1
	Stomach	1
611	Pharynx	1
627	Stomach Jaw	1
051	Jaw Breast	1
	Throat	1
900	Inroat	
		9
	Decific Avenue	9
1462	Pacific Avenue	1
1463	Mesentery Uterus	1
1492	Intestines	1
		1
	Stomach	1
1700	Rectum	1
2003	Mesentery	
2400	General Bladder	1
2803	Bladder	1
2889	Intestines	1
	Breast	1
2614	Breast	1
		11
	Dage Street	11
660	Page Street	1
668		1
779		1
809		1
909	Lungs	i
1012	Ovary	1
1024	General	
1051	Breast	1
1053a		1
1056	Liver	1
1264	Breast	1
1428	Pancreas	1 1 1
1439	Prostate	1
1466	Lungs	1
1480	Breast	
1652	Breast	1
1828	Larynx	
1844	Pharynx	1
1911	Breast	1
1917a		1
1986	Uterus	1
		20
		20

*2	Park Hill Avenue 2 Uterus	
2	Ear	
	Stomach Stomach	
141	Stomacn	
St.	Joseph's Hospital	
	Parnassus Avenue	

172 Stomach

1276 Intestines

659 Stomach

322 Stomach

53 Stomach

1523 Bone

Palou Avenue

Paris Street

Park Street

Parker Avenue

1

1

1111

7

1

1 2

1

1

1

11111

4

195	Intestines	1
394	Uterus	1
		-
		2

Parnassus Avenue opp. Second Ave.—(University of Calif. Hospital) Oesophagus 1

	Pearl Street	
33	Breast	1
43	Rectum	1
47	Larynx	1
53	Stomach	1
		4
	Peralta Avenue	
77	Prostate	1

	Perry Street		2516	Intestine	1		Reddy Street	
72	Prostate	1	2613	Liver	1	77		
143	Stomach	ĩ	2564	Uterus	1		oterus	1
159	Intestines	1	2717	Lungs	1		Revere Avenue	
			2717		1	1315		1
		3	2762	Uterus	1	1327	Breast	1
	Persia Avenue		2777	Pancreas	1	1736		1
43		1				1100	Stomach	T
40	Tiostate	1			46			3
	Piedmont Street			Pine Place			Richland Avenue	2
70			14	Stomach	1			<u>_</u>
79	Breast	1			*		Intestines	1
	Pierce Street			Plymouth Aven	ue	364	Rectum	1
0.01			1440	Bone	1			
221	Stomach	1	1487	Intestines	ĩ		Diana Cara	2
312	Jaw	1					Rivera Street	
320	Gall bladder	1			2	727	Uterus	1
362	Breast	1		Pond Street	-	1121	Jaw	1
1922	Stomach	1	49		1			
2119	Stomach	1	47	oterus	T			2
2944	Uterus	1		Portola Street	t		Rivoli Street	
3256	Stoniach	1	69	1 Pancreas	1	125	Liver	1
		_	0,	2 I anereas	1	149	Uterus	1
	D' C	8		Post Street		150	Rectum	1
227	Pine Street		310	Peritoneum	1			
21	Stomach	1	524		î			3
480	Intestines	1	545		î		Rolph Street	
755	Liver	1	545		î	115	Brain	1
755	Intestines	1	606		î	1000		-
825	General	1	701	Uterus	î		Rose Street	
903	Breast	1	754	Intestines	î	184	Uterus	1
950	Intestines	1	775	Tongue	î			0.03
955	Intestines	1		Poul Buo			Rosemont Place	
1001	Mesentery	1			8	37	Stomach	1
1106	Uterus	1		Quesada Avenu				
1111	Uterus	1	1381	Peritoneum	× 1		Ross Alley	
1111	Lungs	1	1446	Jaw	1	30	Liver	1
1270	Gall bladder	1	1764	Stomach	1		D.J.J.C.	
1270	Breast	1	2050	Stomach	1		Rutland Street	
1324	Intestines	1	1000	oroniaen	1	978	Breast	1
1467	Breast	1			4	C	Ci	
1485	Lungs	1		Rae Avenue	-1		acramento Street	
1847	Liver Intestines	1	69	Peritoneum	1	426	Ovary	1
1918	Brain	1	09	rentoneum	1	637	Breast	1
2019	Bone	1		Railway Street	0	653	Rectum	1
2430	Rectum	1	905	Stomach	1	708	Stomach	1
2432	Neck	1	200	Stomach	1	1182	Stomach	1
2507	Intestines	1		Ramona Street		1260	Pancreas	1
2507	Stomach	2	61	Breast	1	1354	Uterus	1
2507	Stomach	2	69	Peritoneum	1		Stomach	1
2507	Breast	2	02	rentoneum	1	1560	Uterus	1
2507	Uterus	2 2 2 2 2 2 2			2	1560	Stomach	1
2507	Breast	2		Randolph Street		1624	Lungs	1
2507	Ear	1				1710	Breast	1
2507	Cheek	1	901	Prostate	1	1822	Stomach	1
2507	Prostate	1		Raymond Street		1822	Liver	1
2507	Neck	1		Uterus		2153	Intestines	1
		T.	4	oterus	1 .	2224	Nose	1

S	acramento Street-	_	S	an Fernando	Way	3841	Uterus	
	Continued		145	Neck	1	3906	Tongue	
2299	Ovary	1	110	ricca		4184	Oesophagus	
2325	Rectum	î		San Jose Aven	ue	4197	Pancreas	
2331	Tonsils	î	105	1 Tongue	1			_
2610	Intestines	î	127	Stomach	î			13
2614	Uterus	î	225	Stomach	î	Se	venteenth Avenu	le
2701	Liver	î	254	Lungs	î	25	Oesophagus	
2858	Stomach	î	310	Intestines	î	264	Stomach	
2918	Intestines	î	629	Stomach	î	272	Lungs	-
3017	Liver	î	1961	Stomach	· 1	742	Breast	-
3033	Peritoneum	î	1989	Intestines	î	142	Dicast	1
3232	Stomach	î	2031	Oesophagus	î			
3780	Stomach	î	2320	Stomach	î		C	
3780	Liver	î	3001	Face	î	100000	Seventh Street	
3810	Bladder	î	3019	Throat	î	135b	Uterus]
3883	Stomach	î	0012	Intoat	-		Seventh Avenue	
0000	oronnaen	_			12			
		31	C.	unta Marina Si		59	Intestines	
		01			reet	61	Neck	
	Salmon Alley		47	Breast	1	159 230	Vagina	
46	Uterus	1	S	anta Ynez Ave		230	Intestines Rectum	1
40	oterus	1				251	Bladder	1
	San Benito Way		68	Stomach	1	337	Liver	
	Uterus	1		Scotia Avenu	0	487	Stomach	1
04	Oterus	1	=0		e	538	Liver	
S	an Bruno Avenue		78	Bladder	1	570		
		1		Sea Cliff Aven		757	Kidney	
631	Bone	1				776	Breast	
701	Stomach	1	190	Neck	1	1249	Bone	-
2749	Stomach	1		Sears Street		1429	Liver Intestines	
4550	Gall bladder	1	140	Others of this		1429	Stomach	1
		4	142	Others of this	class 1	1490	Stomach	
	San Carlos Street	4		Second Avenu	P			15
			105	Stomach	1		Seville Street	10
149	Prostate	1	227	Tonsils	1	115		
176	Neck	1	227	Uterus	1	115	Ear	
269	Stomach	1	239	Liver	1		Shafter Avenue	
273	Brain	1	239	Gall bladder	1	1010		
359	Stomach	1		Liver	1		Liver	1
		_	274	Bladder	· 1	1343	Larynx	1
		5	285	Uterus	1	1412	Stomach	
	Sanchez Street		664	Kidney	1	1422	Lungs	1
68	Pancreas	1	669	Peritoneum	1	1610	Lungs	1
283	Uterus	1	1353	Intestines	î			
507	Intestines	1	1000	Intestines	1		C1	
589	Breast	1			11		Sharon Street	
872	Liver	1 .				37	Stomach	
1004	Stomach	1		Seventeenth Str	eet	74	Uterus	
1004	Uterus	1	1233	Neck	1			-
1024	Larynx	1	1401	Pharynx	1		CI	2
1147	Rectum	1	2015	Oesophagus	1		Sherman Street	
1176	Prostate	1	3222	Stomach	1	12	Uterus]
1417	Liver	1	3480	Stomach	1		Shater II Survey	
1532	Uterus	1	3651	Stomach	1		Shotwell Street	
1543	Breast	1	3786	Rectum	1		Uterus	1
			3823	Uterus	1	58		
		13	3826	Stomach	1	61	Intestines	-

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3

3	Shotwell Street-	-	3048	Larynx
	Continued		3079	Intestines
114	Bladder	1	3428	Liver
162		1	3444	
		1	3452	
208			3519	
214		1	3519	Pancreas
	Bladder	1	3319	1 ancreas
	Gall bladder	1		
	Tongue	1		
561	Intestines	1	3	Sixteenth Avenue
579	Prostate	1	125	Prostate
606	Prostate	1	196	
607;	a Stomach	1		Lungs
731	Stomach	î	196	Lip
	Pancreas	1	419	Stomach
813		1	487	Lip
835	Intestines	î	526	Pancreas
269	Toetos	î	570	Stomach
0.02	Intestines Testes Uterus	1		
920	Oesophagus	1		
929	Desophagus			Sixth Street
1005		1	74	
1115	Tongue	1	74	Rectum
			74	Stomach
	20 8 80	23	220	
	Shrader Street		221	Uterus
21	Breast	1	377	Liver
230	Stomach	ĩ	494	Pancreas
410	Stomach	i	494	Liver
761				
	Stomach	1 1 1 1		
	Tongue	1		
832	Proceed	1		Sixth Avenue
			36	Prostate
1126	Stomach	1	42	Intestines
1306	Stomach	1	64	Brain
			118	Stomach
		9	147	Heart
	Sickles Avenue		234	Uterus
189	Stomach	1	268	Liver
	Stomach	1	551	
200	Stomach	1		Breast
		0	574	Rectum
		2	624	Stomach
Silve	r Avenue-Home	for	627	Stomach
	e Aged (Hebrews		1279	Stomach
80	Oesophagus	1		
	Rectum	1		
80	Bladder	i	S	outh Park Street
20	Peritoneum	1	70	Uterus
00	Peritoneum		165	Liver
01	Breast	1	105	Laver
		5		
	Sixteenth Street	3		Sector 1 Allen
				Spofford Alley
2105	Stomach	1	37	Stomach
2805	Intestines	1	39	Liver
2828	Stomach	1	50	Stomach
2886	Stomach	1		
3048	Stomach	1		

12	Springdale Street	
	Intestines	1
126		1
208		1
		-
	Spruce Street	3
344	Stomach	1
	Stanyan Street	
400	Uterus	1
846	Others of this class	
954	Tongue	1
1132	Kidney	1
1263	Prostate	1
		5
	Staples Avenue	
542	Breast	1
	State Avenue	
3	Liver	1
314	Stomach	1
		2
	Steiner Street	~
101	Stomach	1
912	General	î
950	Mouth	î
1323	Stomach	î
1552	Rectum	ĩ
1718	Tongue	1
1730	Intestines	1
2038	Kidney	1
2945	Uterus	1
3042	Liver	1
	1	0
	Steuart Street	
281	Intestines	1
	Stillman Street	
46		1
95	Stomach	ĩ
	-	-
		2
	St. Louis Alley Stomach	1
	Stockton Street	
427		1
621		1
848		1
900 926		1

	Stockton Street-		1808		1	1302	Breast	1
2002.00	Continued		1846		1	1340	Breast	î
	Liver	1	1962	Stomach	1	1922	Liver	î
1208	Neck	1	2053	Stomach	1			_
1209	Liver	1	2065	Stomach	1			7
1245	Uterus	ī	2071	Breast	ĩ		Tehama Street	
1304	Stomach	î	2071	Tongue	î	0.7.7		
1351	Lungs	î	2190	Prostate	î	317	Cheek	1
1549	Throat	1		Rectum	1	323	Rectum	1
1648	Stomach	1	2427	Stomach	1	422a	a Larynx	1
1723	Intestines	1	2496	Intestines	1	453a	1 Intestines	1
1763	Liver	1	2536	Breast	1			-
1826	Bones	1	2564	General	1			4
1830		1	2593		1		Tennessee Street	
	Rectum	1		Stomach	1		Rectum	7
1848	Stomach	1	2616	Uterus	1	1107	Rectum	1
1955	Stomach	1	2622	Stomach	1	1107	Rectum	T
			2626	Rectum	1			
		19	2738	Skin	1		m 1 0	2
1	Stoneman Street						Tenth Street	
15					50	460	Intestines	1
15	Stomach	1		C				
	0 0			Sycamore Street			Tenth Avenue	
	Sutter Street			Breast	1	120	Head	
*562	Stomach	1	72	Breast	1			1
562	Liver	1				137	Uterus	1
562	Prostate	î			2	215	Kidney	1
562	Intestines	î			2	245	Stomach	1
635	Stomach	î		Scott Street		265	Brain	1
701	Liver	1	17	Bones	1	334	Brain	1
757	Breast	1	93	Breast	1	349	Liver	1
765	Uterus	1	244	Stomach	i	519	Bladder	1
		1	311	Stomach	1	710	Stomach	1
†766	Breast	1	363	Tongue	1	752	Stomach	ĩ
766	Breast	1	464	Bone	1		Tongue	î
766	Larynx	1	1123	Prostate	1	1627	Breast	î
795	Tongue	1			1	1021	Dicast	1
801	Breast	1	1565	Oesophagus	1			12
845	Stomach	1	1608	Intestines	1		Theresa Street	12
860	Breast	1	1701	Uterus	1			
952	Bladder	1		Ovary	1	17	Stomach	1
980	Tongue	î	1825	Stomach	1			
	General	î		Face	1		Third Street	
1000	Larynx	î	2205	Larynx	1	76	Stomach	1
1000	Breast	1	2305	Rectum	1	*87		1
1000	Peritoneum	1	2650	Breast	1		Oesophagus	1
1035		1	2848	Uterus	î	87	Oesophagus	1
	Mouth	1	2848	Bones	î	149	Jaw	1
1035	Breast	1	2848	Breast	î	151	Rectum	1
1054	General	1	3215	Lungs	î	†165	Oesophagus	1
1114	Skin	1	0210	Lungs		165	Bone	1
1499‡		1			20	165	Peritoneum	1
1499	Liver	1			20	175	General	1
1499	Lungs	1		Teddy Avenue		176	Breast	1
1624	Lungs	1	71	Peritoneum	1	190	Oesophagus	1
1733	Uterus	1	.1	remoneum	1	203	Stomach	1
1772	Stomach	1		Taylor Street		221	Tongue	1 1 1
1800	Stomach	1	57		7	\$224	Lungs	î
*Regent.			57	Intestines	1			1
			241	Intestines	1	*Marley		
	ent House		701	Peritoneum	1	†Alta H		
[‡] Hotel			1120	Stomach	1	Colton:	House	

Thi	d Street-Continu	ued	Th	irty-second Au	enue	275	Lungs	1
224	Rectum	1	244	Rectum	1	381	Stomach	1
253	Stomach	î	261	Intestines	î	455	Breast	1
288	Oesophagus	î	277	Brain	1	804	a Uterus	1
		1		Intestines	1	809	Rectum	1
301	Stomach	1	427		1	812	Breast	1
328	Stomach	1	1260	Breast	1	836	Rectum	î
370	Stomach	1				1193	Stomach	i
373	Lungs	1	10000		5	1193		1
396	Rectum	1	Th	irty-seventh At	lenue		Liver	1
574	Stomach	1	519	Stomach	1	1416	Breast	4
574	Stomach	1	1271	Brain	ĩ	1681	Tongue	1
2168	Pancreas	1	1.011	Diam		1689	Liver	1
2342	Palate	1			2	1769	Liver	1
3908	Ovary	1	T	hirty sinch Ano		1957	Intestines	1
0700	Orary			hirty-sixth Ave		2283	Stomach	1
		27	440	Pancreas	1	3136	Liver	1
		21	m					
	Third Avenue			hirty-third Ave	nue		m 11.1 C.	20
134	Pancreas	1	420	Intestines	1		Twelfth Stree	et
219	Rectum	1	474	Pancreas	1	313	Mouth	1
235	Stomach	1	698	Stomach	1			
426	Rectum	1	2334	Stomach	1			
		1	2478	General	1		Twelfth Avenu	ne
478	Lungs	1				100		1
554	Prostate	1			5	133	Intestines	1
639	Uterus	1		Thornton Aven		178	Liver	1
682	Peritoneum	1		Pancreas		246	Heart	1
746	Intestines	1	101	Pancreas	1	276	Pancreas	1
1209	Prostate	1		10000		327	Liver	1
1280	Intestines	1		Tiffany Avenu	e	522	Intestines	1
1324	Stomach	1	172	Heart	1	522	Uterus	1
1373	Uterus	1	114	arear c	÷	568	Stomach	1
		_				611	Intestines	1
		13		Tingley Street	t	731	Intestines	î
		10	275	Oesophagus	1	1226	Intestines	î
	Thirteenth Street			a section data	15	1448	Testes	î
352	Uterus	1		Tiona Anonua		1.1.10	restes	1
		*	350	Tioga Avenue				12
	Thirtieth Street		156	Uterus	1			14
275	Uterus	1						
308	Stomach	1		Treat Avenue			E	
308	Liver	1	834	Stomach	1		Twentieth Stre	et
334	Breast	ĩ	843	Rectum	ĩ	1445	Rectum	1
517	Neck	î	843	Intestines	î	2625	Lungs	1
011		1	1106	Tongue	î	3223	Uterus	1
		5	1112	Stomach	1	3263	Breast	1
		5	1594	Stomach	1	3347	Throat	1
T	hirty-fifth Avenue		1604		1	3554	Intestines	1
562	Intestines	1	1004	Stomach	1	3621	Prostate	1
		1				3652	Liver	î
659	Stomach	1			7	3688	Liver	1
727	Rectum	1		Tucker Avenue	2	3938	Prostate	1
		_	10	Stomach	1	3930		1
		3	**		÷.		Pancreas	1
Th	irty-fourth Avenue	p		Turk Street		4020	Intestines	1
		1	24			4242	Liver	1
550	Stomach	1	34	Uterus	1	4308	Uterus	1
871	Intestines	1	140	Mesentery	1	4327	General	. 1
		_	242	Gall bladder	1			
		.,	975	Broact				15

7	wentieth Avenue		Т	wenty-first Avenue		3521	Stomach	1
470	Uterus	1	218	Bones	1	3804	Prostate	î
639	Lungs	î	330	Uterus	1	0001	11001110	
755	Liver	î	1227	Stomach	1			12
761	Intestines	î	1441	Stomach	1			14
101	Antostinos	_			3		enty-second Av	enue
		4	T	wenty-fourth Stree		77	Pancreas	1
T	wenty-eight Street					371	Uterus	1
272	Stomach	1	2119	Pancreas	1	511	Bone	1
273	Stomach	1	2521	Kidney	1	568	Liver	1
315	Breast	1	2616	Lungs	1			
452	Breast	1	2616	Uterus	1			4
404	breast	1	2632	Breast	1			
		_	2759	Stomach	1	Tu	enty-seventh St	reet
m		4	2771	Pancreas	1	175	Stomach	1
	venty-eight Avenue		2914	Uterus	1	299	Tongue	1
286	Stomach	1	2931	Bone	1	317	Uterus	1
323	Intestines	1	3032	Stomach	1			
330	Breast	1	3337	Ear	î			3
459	Intestines	1	3380	Stomach	î	m		
1267	Larynx	1	3424	Stomach	1	1 10	enty-seventh Av	enue
		-	3440	Uterus	1	439	Liver	1
		5	3440	Intestines	1	634	Uterus	1
T	wenty-fijth Street		3870	Bone	1	1346	Uterus	1
3023	Neck	1			1	1363	Stomach	1
3069	Stomach	1	3968	Lungs	1	1002000		
3371		1	4003	Breast	1			4
3386	Larynx	1	4033	Liver	1	T	wenty-sixth Str	0.01
3740	Stomach Breast	1	4109	Stomach	1			cet
		1	4414	Intestines	1	3020	Stomach	1
3834	Bone	1				3021	Pharynx	1
	Uterus	1			21	3038	Uterus	1
3983	Uterus	1	T_{1}	wenty-ninth Street		3358	Stomach	1
4015	Bone	1	22	Lungs	1	3850	Liver	1
4090	Stomach	1	124	Breast	1	3851	Stomach	1
4152	Stomach	1	217	Uterus	1	4276	Lungs	1
4274	Stomach	1	222	Liver	1			
4330	Stomach	1	421		1			7
4385	Stomach	1	421	Oesophagus	1	T_{2}	venty-sixth Aver	0110
4820	Lungs	1						iuc
		-			5		Ovary	1
		15	Tu	venty-ninth Avenue			Intestines	1
Tu	venty-fifth Avenue		245	Bone	1	. 308	Stomach	1
228	Breast	1	533	Uterus	1	370	Oesophagus	1
354	Stomach	i	567	Stomach	ĩ	1286	Breast	1
354	Stomach	1	630	Uterus	î			
		2	000	Croruo	_			5
T	wenty-first Street	4			4	T	wenty-third Stre	eet
2773	Intestines	1	Tu	enty-second Street		2890	Oesophagus	1
3227	Breast	î	701	Intestines	1	3168	Uterus	î
3243	Face	1	837	Stomach	1	3273	Bladder	1
3250	Rectum	1	1518	Uterus	î	3380	Pharynx	1
3360		1	2942		1	3509	Uterus	1
	Stomach	1		Larynx	1			1
3519	Uterus	1	3317	Bladder	1	3548	Stomach	1
3546	Rectum	1	3338	Face	1	3725	Rectum	1
3881	Stomach	1	3338	Uterus	1	3917	Rectum	1
3943	Eye	1	3378	Bladder	1	4033	Stomach	1
		_	3379	Uterus	1	4039	Rectum	1
		0	3415	Pancreas		4107	Breast	

Tw	enty-third Street-	_	1041	Stomach	1	0.14	Vermont Street	
	Continued		1061	General	1	914	Kidney	1
4231	Intestine	1		Breast	1	1157	Gall bladder	1
4241	Intestine	1	1427	Stomach	1	1418	Stomach	1
4321	Jaw	1				1431	Liver	1
					13			4
ar.		14		Vallejo Street			Vienna Street	4
1 11	venty-third Avenue	2	416	Rectum	1	379	Oesophagus	1
682	Breast	1		Heart	î	747	Pancreas	1
850	Uterus	1	469	Bone	1		1 unoreus	
			581	Stomach	1			2
		2	705	Intestines	1		Virginia Avenue	~
	Union Street				1	215		1
004			744	Stomach	1			1
286	Stomach	1	752	Prostate	1	376	Ovary	1
291	Gall bladder	1	766	Stomach	1			0
294	Kidney	1	826	Breast	1		17 11 C	2
378	Liver	1	858	Stomach	1	12220	Waller Street	
427	Stomach	1	866	Stomach	1	216	Prostate	1
435	Breast	1	929	Liver	1	527	Uterus	1
539a	Uterus	1	944	Intestines	1	540	Breast	1
550	Uterus	1		Uterus	1	541	Uterus	1
596	Liver	1	1227	Intestines	1	579	Intestines	1
764	Uterus	1	1365	Stomach	1	663	Oesophagus	1
847	Breast	1	1542	Oesophagus	1	720	Stomach	1
896	Stomach	1	1624	Intestines	1	722	Tongue	1
901	Stomach	1	1632	Breast	1	1212	Larynx	1
1048	Stomach	1	1721	Stomach	1	1285	Liver	1
1214	Rectum	1	1921	Bones	1	1458	Breast	1
1224	Stomach	1	1960	Liver	1	1473	Liver	1
1267	Stomach	ĩ	2467	Rectum	1	1524	Uterus	1
1442	Stomach	î			_	1548	Stomach	i
2113	Rectum	î			23	1585	Breast	î
2365	Breast	î			20	1600	Breast	î
2128*		î		Valley Street		1644	Stomach	î
2120	Orary				1.21	1781	Stomach	î
		21	226	Stomach	1	1101	Stomach	1
	Upper Terrace	21	226	Intestines	1			18
0.50			620	Neck	1		Walnut Street	10
263	Intestines	1				0.10		
	Utah Street				3	343	Stomach	1
310	Lungs	1					Walter Street	
612	Liver	1		an Ness Avenue		30	Breast	1
621	Breast	1	315	Peritoneum	1	68	Pancreas	1
1212	Stomach	1	512	Pancreas	1			
1212	Stomach	1	840	General	1			2
			840	Intestines	1	1	Vashington Street	
		4	840	Stomach	1	502	Skin	1
	Valencia Street		851	Stomach	1	502	Rectum	1
185	Bone	1	1015	Stomach	1	541	Pancreas	1
391	Uterus	1	1040	Skin	1	541	Prostate	1
436	Uterus	1	1040	Lungs	1	708	Breast	1
797:	a Intestines	1	2360	Bone	1	736	Liver	1
836	Stomach	1	2400	Pancreas	1	750	Stomach	1
868	Liver	1	2802	Bone	1	801	Stomach	1
928	Breast	1	2918	Breast	1	820	Liver	1
1013	Uterus	1				845	Stomach	1
1016		1			13	858	Stomach	1
		· ·				000	Contracti	-

Appendix E (Cancer Mortality of San Francisco, 1920-1924) Continued

I	Vashington Stree Continued	t		Wentworth Place		Yerba Buena Ave	nue
050			24	Stomach	1	70 Breast	1
858		L	55		î.	10 Dicast	1
870		1	60		î	V L C	
874		1			-	York Street	
884		1			3	263 Breast	1
901	Intestines	1		Westwood Drive	5	723 Larynx	1
1034	Rectum	1	19	Tongue		804 Stomach	1
1370	Neck	1	44	rongue	1	853 Stomach	1
1434	Oesophagus	1				964 Breast	1
1449	Uterus	1		White Street		1222 Liver	1
1450	General	1	32	Uterus	1	1377 Rectum	1
1450	Breast	1					
1485	Tonsils	1		Whitney Street			7
1559	Skin	1	229			Yosemite Avenu	e
1622	Intestines	ĩ	229	Stomach	1	1726 Neck	1
1671	Breast	î				1120 HOCK	1
1690	Intestines	î		Wilde Avenue		7	
2226	Breast	î	314	Oesophagus	1	Zoe Street	
2510	Stomach	î	407	Uterus	î	45 Vulva	1
2921	Bladder	î		erer us	1		
3023	Lungs	î			2	Unknown	38
3169	Uterus	1			2		00
3107	Liver	1		Willard Street		Non Residents	758
3363	Rectum	1	234	Larynx	1	non nestuents	190
3650	Uterus	1	336	Stomach	î		
3978	Uterus	1	338	Lungs	î	County Jail	
0210	Oterus	1		D.	_	Brain	1
		36			3	Rectum	1
	177 I DI	35		117:11: /	~		
	Waverly Place			Williams Avenue			2
32	Heart	1	320	Uterus	1	4. 6	
155	Intestines	1				At Sea	
				Wisconsin Street		Pancreas	2
		2		Liver	1	Rectum	1
	Webster Street		0.05	Laver	1	Brain	1
						Stomach	11
72	Uterus	1		Winfield Street		Prostate	1
74	Intestines	1	16	Stomach	1	Bone	2
97	Stomach	1	133	Vulva	î	Face	1
511	Pancreas	1		Prostate	1	Skin	1
521	Breast	1	210	riostate	1	Mesentery	1
830	Intestines	X			3	Larynx	1
	Uterus	1		Wool Street	0		
1955	Stomach	1	1-				22
2015	Kidney	1	15	General	1	11 C 4	
2212	Stomach	1				U. S. Army	
2313	Stomach	1	II	oodward Street		Lung	1
2813	Intestines	1	37	Stomach	1	Bladder	1
2962	Prostate	1	54		1	Larynx	1
			04	Stomach	1		
		13			0		3
					2		

APPENDIX F

CANCER MORTALITY OF BOSTON, MASS.—1920-1924

BY STREETS AND HOUSES

	A Street	
5	Rectum	1
47	Oesophagus	1
52	Prostate	1
70	Uterus	1
243	Intestines	1
		5
	Abbott Street	
20	Rectum	1
82	Uterus	1
162	Stomach	1
		3
	Ibbottsford Street	
35	Lungs	1
	Adams Street	
4.0		
10	Intestines	1
10	Liver	1
30	Neck	1
41 56	Stomach Liver	1
61	Liver	1
99	Stomach	1
114	Liver	1
150	Liver	1
194	Appendix	1
320	Breast	1
337		1
373	Lungs Breast	1
385	Liver	1
473	Peritoneum	i
500	Rectum	1
888		1
1058	Peritoneum	i
1187	Liver	1
		19
	Adelaide Street	
5		1
6	Stomach	1
	(2
1	Ainsley Street	
52	Uterus	1
69	Breast	1
		0

	Ainsworth Street		A	Idenworth Street	
27		1	62	Liver	1
39	Liver	1			
				12 31	
		2	1	llexander Street	
	Akron Street		61	Liver	1
8	Stomach	1	96	Uterus	1
14	Intestines	1	109	Stomach	1
	11	2		III. James Street	3
	Alaric Street	2		Alleghany Street	1
3	Lip	1		Uterus	1
15	Uterus	1	4 14	Intestines Uterus	1
		2	14	Oterus	-
	Albany Street	4			3
69	Uterus	1		Allen Street	
91	Oesophagus	1	17	Intestines	1
299	Intestines	1		Tongue	1 1 1 1
849	Pharynx	î	53	Stomach	1
912	Ovaries	1		Uterus	1
916	Throat	1	68	Gall bladder	1
953	Intestines	1			-
		_			5
	ULL Street	7		Allston Heights	
	Albion Street			Stomach	$\frac{1}{1}$
17	Stomach	1	4	Lung	1
26 34	Breast Stomach	1			2
0.4	Stomacu	1		Allston Place	1
		3	0		1
	Albemarle Street		8	Bladder	1
6	Uterus	1 .			
				Allston Street	
			2	Lung	1
	Albert Street		10	Stomach	1 1 1
25	Lungs	1	16	Intestines	1
5	Uterus	1	33	Liver	
		0	51	Rectum	1
	Aldie Street	2	169	Ovary	1
1	Intestines				6
1 26	Intestines	1		Alpha Road	0
43	Uterus	1	11	Breast	1
50	Peritoneum	î	32	Breast	1
		-	04	DIGUST	_
		4			2
	Aldrich Street			Alaska Street	
100	Intestines	1	20	Uterus	1

By Streets and Houses-Continued

		200		and mouses-	continued			
	Alpine Street			Appleton Street			Arthur Street	
24		1	40	Liver	1	2		
33	Intestines	1	55	Uterus	1			1
			57	Liver	1	68	Pleura	1
		2	72	Ovary	1			
	Alther Street	2	101		1			2
2			101	Jaw	1		Ash Street	
11		1		Liver	1	36	Stomach	1
11	Intestines	1	151	Stomach	1	36		î
	11	2			7			2
	Alveston Street			Anthony Street		A	shburnham Street	-
5	1415 F 10 148 1/ B	1	3	Uterus	1		Rectum	
23	Breast	1					Rectum	1
				1-1			Ashford Court	
		2	12/2	Arborway		4	Peritoneum	
	Amboy Street	-	22	Uterus	1	4	Peritoneum	1
1		1					Ashland Street	
÷	finestines	1		Arcadia Street		21		
			3	Intestines	1	31	Larynx	1
	Ambrose Street		5	Tongue	1	158	Uterus	1
1	Jaw	1	. 12	Intestines	1	212	Pancreas	1
-	D co co	1 .	16	Uterus	1			
	1 1 -		10	Oterus	1			3
	Amherst Street				_		Ashmont Park	
103	Bladder	1			4	1	Uterus	1
				Archdale Road				
	Amory Street		24	Liver	1		Ashmont Street	
						27	Lung	1
81	Oesophagus	1		Armila Street		195	Kidney	î
372	Intestines	1	-	Argyle Street		406	Intestines	î
384	Jaw	1	7	Breast	1	212	Brain	î
			18	Uterus	1	345	Intestines	î
		3				449	Lung	1
	Amory Terrace				2	581	Intestines	1
10	Breast	1		Arlington Street		001	intestines	1
0.004		1	2	Intestines	1			7
	Andrew Place		61	Intestines	ĩ		Aspen Street	
-			64	Liver	î	0		
1	Stomach	1	75	Prostate	î	2	Lung	1
			147	Breast	î		Asticon Street	
	Anita Terrace		151	Stomach	î	1.0		
15			151	Uterus	î	15	Larynx	1
15	Stomach	1	161	Uterus	1		Acton Street	
			161	Prostate	1	0		
	Anson Street		101	Trostate	1	8	Rectum	1
18	Breast	1			9		Astor Street	
0.000		*	4	rmandine Street	9	1.2		
	Anthony Dlass					41	Oesophagus	1
_	Anthony Place		35	Peritoneum	1	41	Stomach	1
1	Breast	1		Intestines	1			
			99	Intestines	1			2
	Antrim Street						Astoria Street	
5	Bladder	1			3	66	Bladder	1
8	Breast	1	A	mington Street				*
0	Dicast	1		Uterus	1		Asylum Street	
		0			<u></u>	6	Bone	1
	Annian IV	2				11	Stomach	1
100	Appian Way			Arnold Street				
5	Nose	1	10	Uterus	1			2

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	Athelwold Street			Brainbridge Stre	et		Batavia Street	
26	Face	1	19		1			
29		1			1	1	Stomach	1
43		1	23		1	21		1
40	Oterus	1	53		1	31		1
			81	Skin	1	37	Tongue	1
		3				49		1
	Atherton Street				4			
3				Baird Street				5
		1	21	Bone			Batchelder Stree	
0	Stomach	1	31	Done	1			et
						1	Stomach	1
		2		Baker Street		1	Gall bladder	1
	Atwood Square		23	Oesophagus	1			
21	Tongue	1	0.00					2
-	rougue	1	- 50	Bakersfield Stree	et.		Bay State Road	
					1	~ .		۰. ۱
	11 0		59	Liver	1		Lip	1
	Auburn Street					135	Rectum	1
2	Gall bladder	1		Baldwin Street		200	Liver	1
3	Neck	1	84	Oesophagus	1	270	Liver	1
8	Uterus	1	01	o confirmation				
10	Intestines	· 1		Ball Street				4
13	Uterus	1					Baxter Street	
16	Ovary	1	10	Prostate	1			
22		1	14	Uterus	1	31	Stomach	1
	Brain	1	18	Uterus	1	77	Uterus	1
28	Breast	1	22	Stomach	1			
38	Uterus	1						2
					4		Bayswater Street	
		9		Balsam Street			Prostate	
	Aukland Street		823					1
4			5	Ovary	1	66	Oesophagus	1
4	Stomach	1		D I Street				
64	Bladder	1		Barnard Street	1000			2
67	Liver	1	7	Neck	1		Beach Street	
				and the second second		27	Uterus	1
		3		Barry Street		61	Liver	î
	Audubon Road		16	Pancreas	1	01	LAVEL	1
207	Bone	1	43	Oesophagus	1			0
211	Bladder	1	10	Occophiagas		D	con Street (H. I	2
448		1			2	Dea		P.)
440	Larynx	1		Barstow Street	-	7	Stomach	1
						78	Pancreas	1
		3	5	Breast	1	136	Uterus	1
	Austin Street			n 1				
12	Stomach	1		Bartlett Street				3
34	Mouth	1	3	Stomach	1		Beacon Street	
01	Mouth	1	10	Intestine	1	105		
			17	Oesophagus	1	105	Pancreas	1
	1 0	2	37	Bladder	1	106	General	1
	Avon Street			Uterus	1	121	Stomach	1
72	Breast	1	98	Stoniach	î	143	Uterus	1
				Intestines	î	196	Stomach	1
			125	Intestines	I	251	Intestines	1
	B Street					283	Ovary	1
0				P	7	287	Stomach	î
. 9	Bladder	1		Barton Street		287	General ·	1
00	Liver	1	19	Pancreas	1	289	Intestines	1
98	Livel		1.7				LITEST HES	
98	Liver			Stomach	1			
98		2	44	Stomach	1	295	Breast	1
98	Bailey Street	2		Stomach Stomach	1	295 316	Breast Uterus	1
98 77		2	44		1 1 	295	Breast	1 1 1

Beaco	on Street-Continu	ied		Belle Avenue			Bentham Road	
357	Breast	1	47	Throat	1	11	Tonsil	1
405	Stomach	1	59	Throat	î	~ *	1011011	÷.
445	Lungs	1			-		Benton Street	
451	Stomach	1			2	19	Ear	1
462	Oesophagus	1	I	Bellflower Avenue		21	Uterus	1
535	Uterus	î		Intestines		41	Oterus	1
535	Stomach	î	50	Intestines	1			2
535	Lungs	î		Bellevista Place			Dontlow Street	4
784	Stomach	1 -					Bentley Street	
800	Oesophagus	1	23	Stomach	1	26	Uterus	1
800	Breast	1		Bellevue Street			Della Corre	
836	Stomach	1	51				Berkeley Street	
851	Liver	1	51	Stomach	1	52	Kidney	1
857	Intestines	1	101	Throat	1	78	Prostate	1
1935	Uterus	1	116	Stomach	1	143	Bladder	1
1933	Rectum	1				237	Stomach	1
1924	Rectum	1			3			
				Bellevue Avenue				4
	D 1 . C	30	84	Stomach	1		Bernard Street	
	Beaufort Street					68	Bladder	1
10	Stomach	1		Bellevista Street			as reactors	
	D		5	Breast	1		Bertram Street	
	Beaumont Street					20	Uterus	1
99	Breast	1		Belmore Terrace		20	otorus	*
	D (9	Uterus	1		Bickerstaff Street	
	Bearse Avenue		55	Breast	1		Uterus	1
34	Ovary	1				00	Otorus	*
					2		Bigelow Street	
1	Beckerstaff Street			Bennett Street	-	16	Uterus	1
50	Stomach	1			1	10	Oterus	1
		-	8	Lungs Breast	1		Billings Street	
	Beech Street		20	Throat	1	45	Tongue	1
	Vulva	1			1	CF	Tongue	1
170	Uterus	î	127	Breast	1		Binney Street	
306	Liver	î			_			1
451	Stomach	î			4	2	Intestines	1
	oromaon	-		Bennington Street		2	Liver	1
		4	57	Uterus	1	16	Stomach	1
	Beech Glen	.4	175	Stomach	1	17	Breast	1
60			212	Liver	1	93	Stomach	1
60	Stomach	1	215	Oesophagus	1			
	Bedford Road		226	Uterus	1		and the second second	5
48	Stomach	1	235	Stomach	1		Birchwood Street	
40		T	242	Stomach	1	63	Rectum	1
	Belder Square		402	Bladder	1			
3	Lung	1	432	Intestines	1		Bird Street	
			445	Stomach	1	83	Intestines	1
	Belfort Street		460	Rectum	1	05	Intestines	1
30	Skin	1	691	Liver	1		Blackwood Street	
41	Stomach	1	699	Liver	ĩ			
		-	699	Rectum	î	7	Intestines	1
		2	902	Oesophagus	1		ni 1 0	
	Belgrade Avenue		1004	Liver	î		Blagden Street	
134		1	1004	Gall bladder	i		(Langham Apts.)	
134		1	1000	Stomach	1	22	Peritoneum	1
	Stomach	1	1183	Face	1		Contract Contract	
292	Breast	T	1105	race	1		Blake Street	
		3			19	24	Liver	1
		3			19		Laver	

	Blanche Stre	eet		Bolton Stree	t		Bowen Street	
8	Uterus	1	92		1	261	1 Intestines	1
19		1	120		î	265		î
			235	Lungs	î	266		1
		2	200	Bungo	-	200	Stomach	-1
	Plaamfald Si				3			3
	Bloomfield St	reet					Bowman Street	
10		1		Border Street	t	15		1
41	Intestines	1	- 38	Stomach	1	10		
58 79		1	172	Breasts	1		Boyden Street	
79		1	364	Bone	1	18	Stomach	1
19	Stomach	1	373	Breast	1		Boylston Street	
		5				31	Uterus	1
					4	33	Stomach	1 i
	Blossom Stre	et		Boston Street		128	Breast	÷.
(]	Brother and Si	ster)	74	Liver	1	192	Oesophagus	1
12	Liver	1	104	Breast	1	729	Breast	î
12	Stomach	1	104	Uterus	1	839	Ovary	1
			135	Intestines	1	913	Intestines	1
		2	155	Uterus	1	1069	Heart	1
711			173	Intestines	1	1069	Prostate	1
Blue	Hill Avenue	(Park-	110	intestines	1		Claren.	1
	way)				6		rectum	1
	Bone	1			0	6	Hotel Brunswick) 1
24	Liver	1	B	oulevard Terra	ce			_
35	Uterus	1	25	Uterus	1			10
53	Uterus	1	27	Intestines	î		Bradfield Street	
63	Uterus	1		Antestines	1		Breast	1
66	Throat	1			2			1
66	Uterus	1			-		Bradjord Street	
79	Face	1		Bowdoin Street	t	3	Intestines	1
168	Neck	1	11	General	1	24	Stomach	1
179	Bladder	1	17	Stomach	i			-
305	Stomach	1	18	Stomach	î			2
326	Intestines	1	29	Uterus	î		Bradlee Street	
372	Liver	1	44	Oesophagus	î	19	Prostate	1
384	Throat	1	58	Uterus	î	- 20	Bladder	1
381	Breast	1	76	Ovary	î			
386	Stomach	1	80	Rectum	î			2
495	Liver	1	97	Breast	î		Bradley Street	
566	Lungs	1	98	Liver	î	30	Uterus	1
814	Lungs	1	141	Liver	î	127	General	1
899	Liver	1	186	Liver	î			
917	Jaw	1	244	Uterus	î			2
1232	Liver	1	245	Stomach	î	L	radwood Street	
1234	Pancreas	1		Intestines	î	47	Lungs	1
1253	Liver	1				77	Breast	1
1410	Peritoneum	1			15			_
1412	Bone	1		D. C.	1.5			2
1420	Stomach	1	5020	Bower Street		1	Braemore Road	
1531 1585	Skin	1		Stomach	1	26	Neck	1
1909	Rectum	1		Rectum	1	1	Bragdon Street	1000
				Stomach	1	56	Uterus	1
		29		Stomach	1	76	Tonsil	î
B	oardman Stre	et	179	Stomach	1	91	Penis	î
	Intestines						565 (AD 788	_
50	ancouncs	1			5			3

	Brainerd Road		727	Uterus	1	88	Stomach	1
12	Prostate	1	778	Liver	1	103	Prostate	1
110	Bone	1	852	Liver	î	104	Ovaries	î
119	Pancreas	1	907	Rectum	î	104	Peritoneum	î
119	Fancreas	T	907	Breast	î	146	Stomach	î
			925	Uterus	1	220		1
	n n 1	3	940		1	220	Stomach	1
	Brayton Road		940	Stomach	1			8
96	Stomach	1			0.5			8
				D 1 0	25	В	rookside Avenue	
	Bremen Street			Brackett Street		10	Uterus	1
36	Neck	1	40	Vagina	1	58	Oesophagus	1
		1				79	Stomach	1
284	Breast	1		Bradford Street				_
				Bone	1			3
	D 0	2		Done	1		Bromley Street	0
	Brent Street			Dennelan Denl		07	그 맛있는 것 것 것 같아요. 정말 것 같아요. 것 같아요. 것 같아요. 것	1.0
17	Oesophagus	1		Bromley Park		27	Kidney	1
	1.0		14	Gall bladder	1		Brown Avenue	
	Brigham Street		27	Oesophagus	1			
-	Stomach	1	55	Face	1	152	Stomach	1
7	Stomach	1						
	D 1 D1				3	E	Browning Avenue	
	Briggs Place			Brook Avenue		7	Ovary	1
8	Cervix	1				15	Stomach	1
				Intestines	1	36	Pancreas	1
Drigh	ton Avenue-(Mt.	S.	6	Peritoneum	Ť	47	Larynx	1
Drign		51.	9	Stomach	1	71	Larynx	_
	Joseph Acad.)		95	Rectum	1			4
	Intestines	1	98	Rectum	1		Brunswick Street	.4
1	Uterus	1	30	Breast	1	1		
35	Tongue	1				6	Stomach	1
56	Uterus	1			6	85	Lungs	1
99	Stomach	1		Brookdale Street		116	Stomach	1
101	Stomach	ĩ				210	Breast	1
105	Tongue	î	8	Bladder	1	95	Lungs	1
	Gall bladder	1	12	Stomach	1	20	Lings	
109		1	34	Stomach	1			5
133	Stomach	1	36	Kidney	1		Bryant Street	
185	Uterus	1	42	Stomach	1			
			42	Stomach	1		Bladder	1
	and the second se	10					No compression and the state	
	Broadway				6		Buckley Avenue	
9	Bladder	1		Brookford Street		10:	Uterus	1
76	Stomach	1			1	100	Clorus	
149	Jaw	î	12	Throat	1	R	uckminster Street	
245	Stomach	î	45	Stomach	1			
		1			-		Uterus	1
287a		1			2	24	Prostate	1
205	Mesentery	1	1	Brookline Avenue		24	Lung	1
291	Stomach	1	264	Uterus	1			-
329	Oesophagus	1	264	Pancreas	1			3
358	Stomach	1	476	Uterus	1		Bulfinch Place	
365	Lung	1	410	Cicius		8	Rectum	1
389	Liver	1			3	0	neetum	
397a	Stomach	1		Brookline Street	0		Bullard Street	
406	Pancreas	1	15.26					
504	Pancreas	1	270	Uterus	1	12	Uterus	1
510	Neck	1				17	Liver	1
532	Rectum	1		Brooks Street		17	Tongue	1
564	Stomach	î	62	Stomach	1		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
		î	80	Stomach	î			3
751	Intestines	1	00	Stomach				

L	Bunker Hill Street			Byron Street		
1	Jaws	1	81		1	
	Stomach	1				
77	Prostate	1		Burbank Street		
	Bladder	1	14	Bone	1	
	Stomach	1	1.4	Done	1	
148	Tongue	1				
149	Stomach Bladder	1		nney cor. Franci.		
312	Bladder	1	(Ho	use Good Samari	tan)	
322	Stomach	1		Uterus	1	
	Neck	1				
	Breast			C Street		
443	Uterus	1	81	Bone	1	
			171		ĩ	
	D: 1 0	12	236		1	
	Birch Street		284		1	
64	Liver	1				
	1000				4	
	Burr Street			Cabot Street		
19	Brain	1	48	Breast	1	
			137		1	
	Burrell Street		164		1	
51	Peritoneum	1	185			
93	Ear	1	194		1 1 1	
			237	Rectum	1	
		2	245	Stomach	1	
1	Burroughs Street					
17	Uterus	1			7	
	Liver	1		Caldwell Street		
48	Intestines	1	3	Breast	1	
		-		Uterus	1	
		3	25	Stomach	1	
	Burt Street					
88	Cervix	1		10-11-10-11-11-11-11-11-11-11-11-11-11-1	3	
				Call Street		
	Burton Avenue		20	Breast	1	
5	Stomach	1	58	Stomach	1	
		<u>^</u>	67	Stomach	1	
	Bushnell Street		89	Uterus	1	
19	Uterus	1			-	
7/244				o 11 - 1 - 0	4	
	Bussey Street			Callender Street		
250	Uterus	1	82	Prostate	1	
			197	Intestines	1	
Butl	er Street, Dorches	ter				
5	Stomach	1		a	2	
		7		Calumet Street		
	Butler Avenue		39	Stomach	1	
68	Intestines	1	94	Bone	1	
	n		97	Jaw	$\frac{1}{1}$	
	Buttonwood Street	t	159	Neck	1	
32	Stomach	1			-	
35	Breast	1			4	
	Bynner Street		C	Cambridge Street		
11				Pancreas	1	
11	Intestines	1	12	Stomach	1	

39 39	Oesophagus Bladder	1
39	Stomach	1
109	Bone	1
176	Tongue	î
185	Liver	1
197		1
219	Stomach	
575	Stomach	1
731	Rectum	1
131	Stomach	1
		12
	Camden Street	14
0.0		
87	Breast	1
93	Bladder	1
120	Stomach	1
		-
	0 0	3
	Cannon Street	
11	Rectum	1
20	Intestines	1
		_
		2
Can Aus	terbury Street—C tin Street—(Boste State Hospital)	on
	Gall bladder	1
	Rectum	1
20	General	1
800	Uterus	1
418	Uterus	1
		-
		5
	Canton Court	
2	Rectum	1
	Canton Place	
1	Tongue	1
1	Cardington Street	
3	Pancreas	1
	Carey Place	
2	Uterus	
4	Oterus	1
	Carlisle Street	
12	Breast	1
1.4	Dicast	т
	Carlow Street	
1	Stomach	1
		1
	Carmel Street	
6	Intestines	1
9	Bone .	1
17	Tongue	1
	rongue	1
		3

	C 1: 1	Dy :		and mouses	ontinued			
	Carolina Avenue		58	Bladder	1		hamberlain Stree	t
46	Face	1	71	Intestines	1	15	Liver	1
82	Neck	1	89	Uterus	1			
131	Intestines	1	115	Tonsil	1		Clamber Circuit	
131	Uterus	1	146	Throat	1	0	Chambers Street	
						9	Stomach	1
		4			9	13	Breast	1
	Carlos Street			Centre Street		18	Liver	1
0		1	16			77	Stomach	1
2	Peritoneum	1	16	Ovaries	1	83	Bladder	1
	Carruth Street		51	Intestines	1	136	Brain	1
0.0			64	Prostate	1	143	Liver	1
80	Bladder	1	74	Intestines	1	150	Lungs	1
	Carson Street		85	Intestines	1			
			102	Intestines	1			8
5		1	220	Liver	1		Chamblet Street	
8	Intestines	1	221	Breast	1			
			246	Liver	1	2	Stomach	1
		2	316	Stomach	1			
			321	Uterus	1		Champney Street	
(Castle Gate Road		321	Vulva	1			
9	Intestines	1	330	Ovary	1	27	Uterus	1
21	Liver	1	337	Breast	ĩ	71	Lip	1
- L	LATOL	_	338	General	î	98	Breast	1
		2	355	Uterus	1	107	Uterus	1
	Carver Street	2			1	114	Breast	1
			360	Larynx	1	140	Breast	1
54		1	370	Larynx	1			
71	Tongue	1	386	Stomach	1			6
77	Prostate	1	396	Intestines	1		Chapman Street	
381	Lungs	1	398	Tongue	1	7	Throat	1
			454	Stomach	1	20	Pancreas	i
		4	541	Stomach	1	20	rancreas	1
	Casey Street		576	Rectum	1			2
			590	Rectum	1			2
17	Stomach	1	600	Kidney	1		Chappie Street	
	Course Street		600	Intestines	1	61		1
	Cassnet Street		1071	Liver	1	01	Stomach	1
4	Stomach	1	1551	Stomach	î			
	0 1 0		2155	Larynx	î		Charlie Street	
	Castle Street			Liver	î	0		
92	Larynx	1	2449	LIVEI	1		Stomach	4
					31	13	Intestines	1
	Catawba Street			-	51	28	Stomach	1
35	Breast	1		Centre Place		75	Stomach	1
			2	Rectum	1	81	Stomach	1
	Causeway Street					100	Stomach	1
	Throat	1		Centre Terrace		121	Nose	1
1.4	Antoni					166	Breast	1
	Cazenove Street		15	Larynx	1	185	Intestines	1
6	Bladder	1				265	Ovary	1
6	Bladder	î		Central Avenue		0.500000		
0	bladder	1	1.4		1			10
		0	14	Uterus	1		Charlesante Fret	
		2		a the second second			Charlesgate East	
	Cedar Street			Centervale Park		24	Bladder	1
100			2	Intestines	1			
7	Intestines	1	-			Char	lesgate West-(H	Intel
20	Intestines	1		Chadwick Street		Gnan	Canterbury)	OFCE
				THE REPORT				
22	Intestines	1		Breast			Uterus	

(Charlesgate Street	1	65	Rectum	1
20		1	98	Stomach	î
20		ĩ	294	Uterus	1
		2			7
	Charter Street				
23	Intestines	1	Ch	estnut Hill Aver	nue
			15	Bladder	1
	Chase Street		35	Breast	1
8	General	1	50	Stomach	1
	C1		235	Stomach	1
10	Chaucer Street	1.0	239	Gall bladder	1
43	Liver	1			
	Chauncy Place			CL 12 . C	5
10	Kidney	1		Cheshire Street	
11	Breast	î	20	Liver	1
		_		Chesier Place	
		2	2.0		<u>_</u>
	Chelsea Street		10	Prostate	1
30	Stomach	1		Chester Street	
98	Pancreas	1	20		1
131	Bone	1	20		1
145	Stomach	1	21 71	Oesophagus Lung	1 1 1
180	Breast	1 1 1	76	Liver	1
189	Uterus	1	137	Neck	1
231	Bladder	1	104	INCOM	1
285	Bladder	1			5
352 399	Oesophagus	1		Child Street	8
426	Uterus Intestines	1	10		
437	Oesophagus	1		Stomach	1
101	Ocsophagus	T	103	Larynx	1
		12	110	Ocsophagus	1
	Cherokee Street	1.2			3
14	Stomach	1			~
0.0		1. A		Church Street	
	Cherry Street		16	Vulva	1
12	Uterus	1			
				Chiswick Street	
	Cherwood Street		1	Bone	1
8	Stomach	1	37	Oesophagus	1
			99	Breast	1
	Chestnut Avenue		153	Intestines	1
50	Liver	1			_
138	Prostate	1			4
168	Stomach	1		Circuit Street	
236	Rectum	1	14	Stomach	1
299	Intestines	1	31	Bladder	1
			50	Stomach	1
	~	5	59	Intestines	1 1
	Chestnut Street		68	Bone	1
12	Lung	1			-
40	Breast	1		01 0	5
47	Rectum	1		Clapp Street	
54	Breast		16	Pleura	1

Cherry Street	
12 Uterus	1
Cherwood Street	
8 Stomach	1
<i>Cl</i> 1 C.	
Clarendon Street 8 Tongue	1
23 Oesophagus	i
30 Oesophagus	î
51 General	1
	4
Claremont Street	
8 Stomach	1
26 Liver	1
27 Rectum	1
	3
Claremont Park	
31 Intestines	1
Clark Place	
5 Liver	1
Clarkson Street	
54 Breast	1
Clarkwood Street	
61 Liver	1
Clayton Street	
8 Uterus	1
Claybourne Street	
27 Uterus	1
	1
Clement Avenue	
56 Uterus	1
78 Rectum	1
79 Face	1
	3
Clement Park	
15 Stomach	1
Cleveland Street	
37 Liver	1
Cliff Street (Rox.)	
33 Stomach	1
48 Larynx	1
	2

Clifford Street		07.0	×				
				1			ue-
	1			1			
	1			1		Oesophagus	1
	1			1		Lungs	1
Intestines	1			1	35	Intestines	1
				1	48	Prostate	1
	4			1	50		1
Clifton Street				1			1
	1			1			1
LAVEL	1		Kidney	1			1
Cliftondale Street			Bladder	1			î
	1	781	Intestines	1			î
	1	861	Intestines	1			î
Stomach	1	1322	Ovary	1			î
	0	1506	Stomach	1			i
	2	1618	Intestines	1			1
Clover Street		1756		ĩ			1
				_			1
Intestines	1			21			1
Cable Sugar		(Jumbus Anonus				1
							1
	1			1			1
Uterus	1			1			1
				1			1
	2			1			1
Coffey Street				1			1
Liver	1			1			1
	î		Lung	1	1139	Stomach	1
Dicust	1	415	Breast	1	1160	Uterus	1
	0	437	Intestines	1	1177	Vagina	1
Cohassat Street	2	455	Liver	1	1200	Stomach	1
		455	Bones	1		Uterus	1
Intestines	1		Bladder	î			1
C 11 1				î			1
				î			î
	1			1			î
Uterus	1			1			î
				1			1
	2			1			1
Coleman Street				1			1
	1			1		Stomach	1
Dicast	1			1			
Collender Street				1			1
	1			1			1
Ovary	1	1905	Oesophagus	1			1
Colonial Avenue							1
				23			1
Stomach	1	0	Columbus Square				1
Colonial Poad		8	Rectum	1			1
	100				1738	Uterus	1
	1	C	ommercial Street		1738	Lungs	1
Liver	1				1742	Stomach	1
				1	1872	Bladder	1
	2			1			1
0 I II D I				1			1
Columbia Road		276	Tongue	1	1710	0.000	_
Pancreas	1						51
Intestines	1			4		121 1010	01
			C			Compton Street	
Prostate	1		Common Street			Gompton oncor	
	Uterus Pancreas Intestines <i>Clifton Street</i> Liver <i>Cliftondale Street</i> Intestines Stomach <i>Clover Street</i> Intestines <i>Cobb Street</i> Breast Uterus <i>Coffey Street</i> Liver Breast <i>Cohasset Street</i> Intestines <i>Colberg Avenue</i> Breast Uterus <i>Coleman Street</i> Breast <i>Coleman Street</i> Breast <i>Colender Street</i> Dvary <i>Colonial Avenue</i> Stomach <i>Colonial Road</i> Uterus Liver	Intestines1Pancreas1Pancreas1Intestines1Intestines1Clifton Street1Liver1Cliftondale Street1Intestines1Stomach12Clover StreetIntestines1Cobb Street1Breast1Uterus12Coffey StreetLiver1Breast12Colberg AvenueBreast1Uterus12Collendar StreetBreast1Colonial Avenue2Stomach1Colonial Road1Uterus1Liver122Columbia Road1Pancreas1	Intestines 1 288 Uterus 1 460 Pancreas 1 461 Intestines 1 462 Intestines 1 462 Quern Street 639 639 Liver 1 665 Clifton Street 734 Intestines 1 861 Stomach 1 322 2 1506 2 1 1322 2 2 1506 1618 Clover Street 1756 1618 Clover Street 1756 1618 Clover Street 2 251 Coffey Street 282 2251 Coffey Street 282 225 Liver 1 352 Breast 1 352 Breast 1 474a Colberg Avenue 495 Breast 1 666 Uterus 1 665 2 872 2008 Breast 1 188 </td <td>Intestines1288JawUterus1460IntestinesPancreas1461IntestinesIntestines1462Breast$4$495Breast465Clipton Street655OvaryLiver1675KidneyClipton dale Street734BladderIntestines1322Ovary$2$1506StomachStomach11322Ovary$2$1506StomachIntestines11322Ovary$2$1506StomachIntestines11322Ovary$2$1506StomachIntestines11322Ovary$2$1506StomachIntestines11322Ovary$2$1506StomachBreast1184KidneyUterus1200Bone$2$251IntestinesCoffey Street282Ovary$2$251Intestines$2$251Intestines$2$251Intestines$2$251Intestines$2$251Intestines$2$251Intestines$2$263Breast352Lung$2$253Enestines$2$263General352Lung352Stomach455Bones474</td> <td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td> <td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td> <td>Intestines 1 288 Jaw 1 (Hotel Some't) Uterus 1 460 Intestines 1 Ocsophagus Pancreas 1 462 Breast 1 35 Intestines Intestines 1 462 Breast 1 35 Intestines - 445 Breast 1 35 Intestines 35 Intestines Clifton Street 655 Ovary 1 23 Intestines 1 88 Lungs Cliftondale Street 734 Bladder 1 88 Lungs Intestines 1 206 Stomach 1 86 Breast 1 286 Breast 1 366 Rectum 206 Breast 464 Lungs 1 366 Rectum 21 464 Lungs 1 164 Liver 21 464 Lungs 1 164 Lungs 1 166 Breast 1 1646</td>	Intestines1288JawUterus1460IntestinesPancreas1461IntestinesIntestines1462Breast 4 495Breast465Clipton Street655OvaryLiver1675KidneyClipton dale Street734BladderIntestines1322Ovary 2 1506StomachStomach11322Ovary 2 1506StomachIntestines11322Ovary 2 1506StomachIntestines11322Ovary 2 1506StomachIntestines11322Ovary 2 1506StomachIntestines11322Ovary 2 1506StomachBreast1184KidneyUterus1200Bone 2 251IntestinesCoffey Street282Ovary 2 251Intestines 2 251Intestines 2 251Intestines 2 251Intestines 2 251Intestines 2 251Intestines 2 263Breast 352 Lung 2 253Enestines 2 263General 352 Lung 352 Stomach 455 Bones 474	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Intestines 1 288 Jaw 1 (Hotel Some't) Uterus 1 460 Intestines 1 Ocsophagus Pancreas 1 462 Breast 1 35 Intestines Intestines 1 462 Breast 1 35 Intestines - 445 Breast 1 35 Intestines 35 Intestines Clifton Street 655 Ovary 1 23 Intestines 1 88 Lungs Cliftondale Street 734 Bladder 1 88 Lungs Intestines 1 206 Stomach 1 86 Breast 1 286 Breast 1 366 Rectum 206 Breast 464 Lungs 1 366 Rectum 21 464 Lungs 1 164 Liver 21 464 Lungs 1 164 Lungs 1 166 Breast 1 1646

By Streets and Houses-Continued

	0					
100	Conant Street			Corey Street		Cour
123	Stomach	1	75	Peritoneum	1	6 Par
Conce	ord Square—(Bos	(and	117 288	Uterus	1	Cove
		sion)	265	Stomach Pancreas	- ÷	7 Lur
40	Stomach	1	203	1 anercas		
	Concord Street				4	Cran
18	Stomach	1		Cornell Street		9 Stor
19	Face	1	19	Breast	1	14 Stor
22	Pancreas	1	242	General	1	
73	Intestines	1	256	Rectum	1	
			280	Liver	1	Cran
	Conder Street	4				29 Stor
-	Condor Street				4	Crau
7	Kidneys	1		Cornhill Street		
133	Rectum	1	250	General	1	9 Gal
		2				10 Stor 73 Bre
	Congress Avenue	2		Corning Street		65 Stor
			12	Uterus	1	65 Ute
101	Pancreas	1	23		1	68 Bra
	Congress Street					68 Oth
20		1			2	98 Nec
20	Spine	1		Cornwall Street		
	Cook Street		66	Pancreas	1	
18	Uterus	1		0 0		Creig
34	Prostate	î		Corona Street		54 Stor
48	Breast	î	5		1	
			45	Intestines	1	Cresce
		3			-	(Ch
	Cooper Street			Cortez Street	2	10 Live
14	Peritoneum	1	10			11 Stor
20	Uterus	1	19	Breast	1	37 Stor
20	Jaw	1		Cortes Street		40 Bon
55	Breast	1	20			
			20	Uterus	1	Cres
	C 1 1 C	4		Corwiss Street		
	Copeland Street		17	Stomach	1	19 Lun 24 Stor
3	Intestines	1	11	Stomach	1	24 Ston 28 Peri
23 43	Breast	1		Cottage Park		34 Ston
170	Prostate Bone	1	10	Bone	1	
110	bone	_	10		1	
		4		Cottage Street		Cro
Copl	ey Square-(Cop	oley	12	Uterus	1	33 Pros
	Plaza)		16	Stomach	1	239 Gen
17	Breast	1	22	Stomach	1	
	0 1 . 0		40	Stomach	1	
Saver	Corbet Street	1.20	40	Rectum	1	Crou
94	Uterus	1	54 151	Eye Kidney	1	7 Live
	Cordis Street		170	Stomach	1	Cum
1	Intestines	1		Second off		Cumn
					8	44 Uter
Core	y Road—(Brighte	on)		Cotton Street		Cune
267	Oesophagus	1	4	Stomach	1	39 Brea

	Courtland Street	
	Pancreas	1
0		Ċ.
7	Coventry Street Lungs	1
'		1
0	Crandell Street	
9	Stomach Stomach	$\frac{1}{1}$
1.1	otomach	_
		2
	Cranston Street	
29	Stomach	1
	Crawford Street	
9	Gall bladder	1
10		1
	Breast	1
05	Stomach	1
60	Uterus Brain	1
68	Others	$\frac{1}{1}$
98		1
10	HUCK	_
	Contration Sec. 1	8
	Creighton Street	
54	Stomach	1
0	rescent Avenue-	
	(Charlestown)	
10		1
11	Stomach	1
37	Stomach	1
40	Bone	1
		4
	Creston Street	
19	Lung	1
24	Stomach	1
28	Peritoneum	1
34	Stomach	1
		4
	Cross Street	
33	Prostate	1
239	General	1
		2
	Crowell Street	-
7	Liver	1
	Cummings Road	
44	Uterus	1
	Cunard Street	
39	Breast	1

153

Cunningham Street Dana Street Deering Road 30 Stomach 1 147 Uterus 1 39 Liver 1 Cushing Street Danforth Street Dell Avenue Liver 7 1 Breast 11 Throat 1 1 130 Stomach 1 28 Uterus 1 Darling Street 2 2 22 Oesophagus 1 Cushing Terrace 26 Stomach 1 Denton Terrace 4 Stomach 1 5 Uterus 1 59 Gall bladder 2 1 16 Rectum 1 Dartmouth Street-Cor. 2 Comm. 2 Custer Street Pancreas 1 Dennis Street 38 Liver 1 11 Breast 1 12 Uterus 1 51 Uterus 1 23 Penis 1 23 Breast 1 Derby Place 2 30 Tongue 1 Liver 1 D Street 77 Face 1 3 Uterus 1 102 Neck 98 Uterus 1 1 160 175 Lungs 1 Intestines 1 2 174 Breast 1 194 Intestines 1 280Intestines 1 Derne Street 3 Intestines 6 1 10 Palate Dacia Street 8 1 Davis Street 12 Oesophagus 1 120 Stomach 1 16 Stomach 1 3 Dakota Street 17 Rectum 1 17 Breast 1 24 Oesophagus 1 Devon Street 34 Liver 1 87 Intestines 1 3 39 Stomach 1 97 Liver 1 39 Breast 1 136 Lung 1 42 Davison Street Uterus 1 51 Uterus 1 10 Liver 1 3 67 Intestines 1 77 Stomach 1 75 Uterus 1 Dewey Street 78 Liver 1 2 Stomach 9 1 91 Stomach 1 Dawson Street 26 Rectum 1 36 Stomach 1 24 Liver 1 10 Dale Street 3 Decatur Street Stomach 1 1 1 Uterus 1 Dexter Row Intestines 4 1 24 General 1 25Tongue 1 1 Rectum 1 27 Liver 1 50 Bone 1 28 Intestines 1

By Streets and Houses-Continued

154

Dean Way

Deerfield Street

1

1

6

1

1

30 Uterus

Liver

4 Uterus

58 Uterus

81

Dickens Street

Dillaway Street

1

1

1

1

1

5

1

Liver

Liver

Uterus

Uterus

Uterus

6 Oesophagus

13

24

27

27

40

53

56

75

Lung

Breast

12 Pancreas

15 Stomach

General

Dalrymple Street

Damon Street

1

1

1

7

1

1

	Dillon Street		1337	Intestines	1		Draper Street	
18	Uterus	1	1337	Uterus	1	130	Larynx	1
			1385	Stomach	1	147	Lungs	1
	Dilworth Street		1407	Uterus	1	148	General	1
8	Bladder	1	1832	Neck	1	150	Lungs	1
			2049	Stomach	1			_
	Ditson Street		2145	Kidney	1			4
14	Ocsophagus	1	2151	Stomach	1			
	-		2171	Intestines	1		Dresser Street	
	Dixwell Street		2259	Intestines	1	115		
4	Rectum	1				115	General	1
	DI ALLA				40			
	Dixfield Street			Dorr Street			Deemen Street	
10	Uterus	1	21	Stomach	1	1212	Dromey Street	232
	D1 11 7				-	16	Bone	1
	Dixwell Street			Dorrance Street				
23	Bone	1	22	General	1		Dulla Annua	
D	1 1 0						Dudley Avenue	
D	onneybrook Street			Dorset Street		166	Breast	1
59	Intestines	1	15	Breast	1			
62	Stomach	1	31	General	1		Dullas Street	
			38	Intestines	1		Dudley Street	
		2	44	Stomach	1	11	Lungs	1
	D 0					38	Stomach	1
	Donovan Street				4	59	Rectum	1
2	Uterus	1		Douglas Street	0.50	65	Breast	1
7			0	Oesophagus	1	193	Stomach	1
	Oorchester Avenue		2	Ocsophagus	1	196	Intestines	1
63	Rectum	1		Dover Street		206	Larynx	1
165	Stomach	1	15		1	221	Stomach	1
167	Bone	1	15	Kidney	1	224	Stomach	1
153	Ovary	1	20	Tongue	1	225	Uterus	1
189	Intestines	1	21	General	1	234	Breast	1
195	Stomach	1	34	Skin	1	276	Uterus	1
275	Breast	1	41	Stomach	1	277	Intestines	1
325	Prostate	1	51	Palate	1	280	Breast	1
374	Breast	1	76	Stomach	1	292	Larynx	1
596	Liver	1	127	Neck	1	303	Stomach	1
634	Larynx	1	225	General	1	320	Oesophagus	1
811	Uterus	1			9	366	Ear	1
816	Liver	1			9	374	Uterus	1
911	Uterus	1		Downer Avenue		383	Intestines	1
919	Liver	1	59	Rectum	1	398	Peritoneum	1
922	Kidney	1				424	Prostate	1
928	Stomach	1		Downer Court		424	Stomach	1
1009	Lung	1	4	Liver	1	429	Oesophagus	1
1021	Stomach	1		Liver	÷	436	Stomach	1
1041	Bone	1		Downing Street		440	Rectum	1
1048	Rectum	1	0		1	487	Stomach	1
1084	Rectum	1	9	Eye	1	573	Bladder	1
1106	Bladder	1		Dracut Street		591	Breast	1
1112	Stomach	1	20			618	Intestines	1
1153	Jaw	1	12	Stomach	1	620	Bladder	1
1181	Uterus	1	24	Vulva	1	677	Intestines	1
1260	Stomach	1	58	Intestines	1	713	Prostate	1
1288	Pancreas	1	65	Liver	1	785	Rectum	1
1314	Breast	1			_			2.1
1336	Uterus	1			4			34

	Dundee Street		813	Breast	1	1	East Lenox Stre	et
5	Bone	1	865	Stomach	1	20	Uterus	1
30	Uterus	1	899	Stomach	1	86	Rectum	1
37	Uterus	1				00	neetum	1
67	Uterus	î			10			2
67	Breast	î	r	. D. 111 C.				4
01	Dicust	1		ist Brookline Str	eet	7	and Million Com	
		5	24	Pancreas	1		East Milton Stre	eet
	D 1 0	5	30	Stomach	1	233	Pancreas	1
	Dunneath Street		36	Heart	1			
1	Pancreas	1	41	Liver	ĩ	E	ast Newton Str	eet
			41	Lungs	ĩ	27	Bladder	1
	D		41	Rectum	î	47	Rectum	î
	Dunster Road		44	Uterus	î	49	Stomach	1
54	Intestines	1	79	Intestines	î	92	Uterus	1
				inconico	*	98	Stomach	1
	Durham Street				8			1
		1.12			0	103	Neck	1
4	Breast	1	E	ast Canton Stre	et			_
5	Uterus	1	20	Intestines	1			6
11	Larynx	1	23	Lungs	1	1	East River Stre	et
16	Bladder	1	27	Stomach	1	1138	Intestines	1
			27	Stomach	1	1150	inconnes	*
		4	33		1	Fas	t Springfield St	reet
	Dustin Street	-		Stomach	1			reet
			35	Stomach	1	22	Liver	1
42	Stomach	1	73	Ear	1	28	Uterus	1
109	Stomach	1	76	Oesophagus	1	40	Stomach	1
			84	Rectum	1	55	Stomach	1
		2	89	Throat	1			
	Dwight Street		96	Larynx	1			4
48	Neck	1	109	Intestines	1		Easton Street	
40	TICCK	T				00		
					12	20	Vagina	1
	E Street		72		0.000	24	Liver	1
159	Stomach	1		st Concord Stre	eet	63	Uterus	1
233	Intestines	î	43	Intestines	1			
265	Uterus	1	82	Oesophagus	1			3
268	Liver	1					Eaton Street	
283		1			2	14	Intestines	1
	Stomach	1	r			1.4	Intestines	T
286	Neck	1		ist Cottage Stre	eet		Eden Street	
300	Penis	1	15	Rectum	1			
			41	Bladder	1	10	Intestines	1
		7	50	Oesophagus	1	11	Stomach	1
	East Street		54	Neck	1	15	Breast	1
00		1	86	Uterus	1			-
36	Stomach	1	266	Rectum	1			3
47	Intestines	1	274	Intestines	î		Edgemont Stree	t
50	Liver	1		inconneo	_		-	
					7	19	Stomach	1
		3	17				R.H. (7	
	East Broadway			ist Dedham Stre	eet		Edison Greene	
			38	Bladder	1	18	Skin	1
511	Breast	1						
524	Lip	1		and Early Co			Ellson Street	
582	Stomach	1		ast Eagle Stree	2	16	Rectum	1
610	Uterus	1		Intestines	1	10	neerum	T
610 707	Bone	1	262	Bladder	1		P1	
770	Face	1					Edwin Street	
797	Intestines	1			2	69	Tongue	1

Falastan Sin		onters	Elm Lawn	Jonunue		Empire Street	
Egleston Stre	eet			<u></u>	00	Empire Street	1
14 Intestines 14 Rectum	1	11	Pancreas	1	22 77	Bone Intestines	1
14 Rectum	1		Elmo Street		11	Intestines	1
	2	110					2
Eldon Stree		118	Pancreas	1		Endicott Street	1
39 Rectum	1		Elmont Street		98	Breast	1
El Starra		94	Face	1	145	Stomach	î
Elery Stree		24 24	Stomach	1	166	Stomach	1
13 Lung	1	24	Stomach	î			
Eliot Stree	t	28	Kidney	î			3
23 Stomach	1						
52 Liver	1			4		Englewood Street	
174 Oesophagus	1		Elmore Street			Stomach	1
		12	Liver	1	11	Intestines	1
	3	33	Stomach	1			2
Ellery Stree	71	35	Stomach	1		Esmond Street	4
31 Peritoneum	1			3	76	Stomach	1
-	1		Elmwood Court	5	10	Stomach	1
Ellet Stree	t	1		1		Essex Street	
24 Intestines	1	1	Rectum	1	10	Breast	1
Elli de Ca			Elmwood Street		10	An enot	*
Ellington Str	eet	10	Stomach	1		Euclid Street	
129 Liver	1	10	Face	î	5	Uterus	1
Ellingwood St	reet	30	Rectum	1	9	Uterus	1
75 Stomach	1						
			E 1 C	3		P	2
Ellis Street			Elton Street			Eustis Street	120
9 Lungs	1	18	Neck	1	81	Tonsils	1
Ellwood Stre	net.	20	Nose	1	83 188	Rectum Ovary	1
5 Breast	1			2	299	Intestines	1
5 Dreast	1		Emerald Street	~	277	intestines	
Elm Street		3	Neck	1			4
16 Prostate	1	11	Breast	î		Euston Park	
28 Stomach	1	27	Peritoneum	ĩ	8	Bladder	1
59 Bone	1	27	Jaw	1	0	Diadater	1
67 Liver	1					Eutaw Place	
112 Liver	1		F	4	2	Face	1
	5		Emerson Street				
Elmdale Cire		34	Breast	1		Eutaw Street	
15 Liver	. 1	43 83	Stomach Bladder	1	81	Stomach	1
		108	Liver	i	83	Stomach	1
Elm Hill Ave	nue	176	Liver	î	92	Bladder	1
62 Ovary	1	241	Stomach	1	$121 \\ 108$	Pancreas Ovary	1
Elm Hill Pla	ace	272	Liver	1	100	Ovary	1
6 Bladder	1						5
	1			7		Evans Street	0.50
Elmhurst Str	eet	I	Embankment Roa	d	92	Uterus	1
11 Rectum	1	20	Uterus	1	116	Intestines	î
12 Intestines	1		<i>r n i</i>		118	Breast	î
			Emmons Road				
	2	44	Uterus	1			3

	Evans Way			Fairbury Street			Fayston Street	
22	Rectum	1	10		1	6		
			18		î	25		
	Evelyn Street					80		
31	Stomach	1			2	83		-
				Fairland Street		00	LATER	1
	Everdean Street							
82	Liver	1	14	Liver	1		Fellows Court	
	Everett Avenue			Fairmount Stree	t	19	Uterus	1
3	Breast	1	58	Ovary	1			
24	Uterus	1	280	Stomach	î		Fellows Place	
		-		Lot officiation	_	6	Lip]
		2			2	6]
	Everett Court	-		Edinian Anon				-
3	Intestines	1		Fairview Avenue	2			2
5	intestines	1	7	Oesophagus	1		Fellows Street	
	Everett Square		40	Breast	1			
0						46	Breast	1
2	Intestines	1			2			
	Everett Street			Falcon Street			Fenway	
0			29	Stomach	1	34	Intestines	1
2	Breast	1		Liver	1	58	Bladder	1
6	Stomach	1	31		1	114	Pancreas	1
15	Bladder	1	32	Liver	1	208	Oesophagus	1
25	Jaw	1	35	Uterus	1		Bare	_
41	Ovary	1	60	Liver	1			4
45	Stomach	1	87	Rectum	1		r 1 n 1	
165	Others	1	128	Lungs	1		Fenwood Road	
176	Intestines	î	134	Uterus	1	19	Uterus	1
189	Peritoneum	î	137	Stomach	1	53	Ovary	1
102	remoneum	1	140	Uterus	1	58	Prostate	1
		0	203	Bladder	î			_
	0 0 D I			Dianan				3
Exete	er Street Cor. Boyl	ston			11		Fernboro Street	
	(Hotel Lenox)			Falmouth Street				
	Kidney	1					Stomach	1
			52	Stomach	1	28	Lung	1
	F Street							
52	Larynx	1	F	aneuil Chamber	5		122 2 2 2	2
		1	3	Face	1		Ferrin Street	
175	Uterus	1	3	Stomach	î	10	Stomach	1
	Oesophagus	1	0	otomici				- 1
					2		Field Street	
I		3		F 11 C		20		
	Fabin Street			Fancuil Street		39	Stomach	1
25	Stomach	1	310	Oesophagus	1	60	Oesophagus	1
			340	Rectum	1			_
	Fabyan Street		355	Pancreas	1			2
							Fielding Place	
17	Stomach	1			3	4	Stomach	1
				Farragut Road				-
	Factory Street		62	Stomach	1		Flagg Street	
10	Uterus	1	63		1	10		
		10	83	Intestines	1	10	Intestines	1
	Fairbanks Street		109	Kidney	1	32	Intestines	1
56	Intestines	1			_			-
64	Uterus	1			3			2
				Fay Street			Fleet Street	
		2	51	Liver	1	16	General	1
		_	0.0					-

By Streets and Houses-Continued

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	Fletcher Street			Foster Street
59	Stomach	1	12	Liver
59	Bladder	1	96	Breast
	Uterus	1	280	Rectum
	Ciciac		200	Rectum
		3		
	Florence Street			Fottler Road
1	Stomach	1	25	Stomach
	General	1	50	Liver
	Bone	î	50	LAVEL
37		1		
105	Stomach	1		Fountain Square
205	Uterus	1		Intestines
200	Cicius	-	0	intestines
		6		Fowler Street
	Florida Street	0	40	Stomach
115	Stomach	1	49	Intestines
115	Stomach	1	15	inconico
	Floyd Street			
50		. 1		Frances Street
00	Rectum		20	Intestines
	Folsom Street		38	Rectum
26	Bladder	1	50	Rectum
	Breast	î		
98	Stomach	î		Franconia Street
	cronnen			
		3	5	Liver
	Forbes Street			Frankfort Street
19	Liver	1	18	
37		î	76	
	Rectum	î	10	Done
80	Testes	î		
				Franklin Street
		4	2	Breast
	Ford Street		14	Stomach
21	Intestines	1	96	Jaw
~ 1	Inconnes		127	Stomach
	Fordham Street		135	Liver
3	Face	1	137	Ear
5	race	1	101	Lat
	Forest Street			
53	Bone	1	F	rederick Terrace
	Liver	1	3	
55	Stomach	1	4	Intestines
55	stomach	1		intestines
		3		
F	orest Hills Street	0		Freeman Street
				Uterus
24	Jaw	1	19	oterus
	Fort Avenue			Freeport Street
1		<u>_</u>		Neck
	Uterus	1	010	
41	Uterus	1		Friend Street
89	Face Liver	1	50	Jaw
09	LIVET	T	Fr	othingham Street
		4		Liver
		1.01	100	L AVET

	Fuller Street	
21	Oesophagus	1
	Fulton Street	
2		1
	G Street	
5	Brain	1
35	Liver	î
35	Intestines	1
50	Liver	1
68	Intestines	1
		5
	Gainsboro Street	
98	Uterus	1
101	Liver	1
101 105	Liver	1
111	Intestines Stomach	1
	Stomach	
		5
	nnett Street (Rox.)
16	Stomach	1
	Galena Street	
15	Uterus	1
	Garden Court	
9	Breast	1
	Garden Street	
41	Prostate	1
53	General	1
53	Liver	1
		3
	Gardner Street	
24	Stomach	1
35	Lungs	1
45	Breast	1
60 72	Stomach	1
217	Breast Breast	$\frac{1}{1}$
211	Dicast	1
		6
	Garfield Avenue	
37	Stomach	1
	Garland Street	
2	Intestines	1
	Garrison Hall	
16	Uterus	1
19	Stomach	1
		2

By Streets and Houses-Continued

	0	by :		and Houses	ontinued			
	Gaston Street			Glenwood Street			Granville Street	
9	Liver	1		Liver	1	27	Rectum	1
				1 Stomach	1			
	Gates Street		87	Jaw	1		Gray Street	
13	Pancreas	1	96	Stomach	1	17	Stomach	1
76	Liver	1				31	Liver	î
10	Liver	1			4	35	Rectum	î
		2	(Glenwood Terrace		46	Uterus	î
	Cauland Street	4	1	Stomach	1	47	Intestines	î
	Gayland Street					50	Intestines	î
20	Uterus	1		Gloucester Place		56	Kidneys	î
			9	Stomach	1	57	Stomach	î
	Gaylord Street			01 0		57	Oesophagus	ĩ
3	Rectum	1		Glover Street		05.75	e con l'anglas	_
28		1	1	General	1			9
20	Lungs	1		0.11.0			Green Street	
		2		Gold Street		02		
	General Avenue	4	88	Stomach	1	23	Bladder	1
100			128	Lungs	1	23	Stomach	1
100	Liver	1			-	29	Liver	1
104	Lungs	1			2	36	Stomach	1
378	Intestines	1	(Goldsmith Street		42	Liver	1
417	Uterus	1	15	Rectum	1	50	Uterus	1
421	Stomach	1				56 57	Rectum	1
				Gordon Street		57	Pancreas	1
	and have seen	5	6	Uterus	1	57	Oesophagus Stomach	1
	George Street		18	Uterus	1		Liver	1
140	Uterus	1				86	Larynx .	1
					2	196	Bladder	1
	Gladstone Street			Gove Street		206	Stomach	1
			164	Uterus	1	200	Stomach	1
81	Liver	1						14
				Grafton Street		(Greenbrier Street	1.4
	Gleason Street		4	Tongue	1		2006	
40	Lungs	1	20	Stomach	1	15	Uterus	1
40	Lungs	1				46	Rectum	1
					2	114	Rectum	1
	Glencoe Street			Grampion Way				3
17	Stomach	1	60	Oesophagus	1		Cross have Street	3
			72	Stomach	î		Greenbay Street	
	Glendale Street			oronnaen	_	36	Face	1
					2	36	Stomach	1
16	Bones	1		Granger Street	-			
29	Intestines	1	38	General	1		c 1.c	2
72	Testes	1	60	Breast	1		Greenock Street	
74	Ovary	1	70	Neck	1	41	Stomach	1
91	Liver	1	10	INCCK	1	~		
					3	G	reenough Avenue	
		5		Granite Avenue	3	6	Bladder	1
(Glenville Avenue					26	Prostate	1
18	Liver	1	84	Breast	1			
27	Stomach	1		C		1.200		2
39	Ovary	ĩ		Grant Place	1200	6	Greenwood Street	
126	Liver	1	15	Rectum	1	11	Stomach	1
185	Liver	1				22	Breast	1
				Grant's Court				
		5	1	Breast	1			2

160

	Greenwich Street			Hamlet Street			Hansen Street	
14 16	Stomach Uterus	1	13		1	9 47	Liver	1
52	Jaw	1		<i>II I C</i>			Inroat	1
			-	Hampden Stree	1			2
	a	3		Uterus	1	1	larbor View Stree	t.
	Grimes Street			Ba Stomach	1	38		1
12	Breast	1	110		1	38		i
14	Liver	1	171		1		inteorney	
			199		1			2
	C	2	177	Stomach	1		Harley Street	-
	Groton Street				6	26		1
16	Intestines	1			<u>ੱ</u>			÷.
	Grouse Street			Hampshire Cente	r		Harold Street	
6	Breast		2	Intestines	1	23	Intestines	1
0	breast	1				33	Bladder	1
	Grove Street			Hampshire Stree	,	143	Pleura	1
16	Stomach	1	110	Uterus		148	Lungs	1
28	Uterus	1	119	Oterus	1	160	Stomach	1
37	Prostate	î		11 1 0				
43	Breast	î		Hancock Street				5
166	Rectum	1	10		1		Harris Avenue	
			11		1	9		1
	1200	5	12 17		1	28	Breast	1
	H Street		18		1		Dicust	1
39	Rectum	1	25		1			2
111	Neck	1	28	Intestines	1		Harrishof Street	-
111	Neck	1	32		1	89	Peritoneum	1
111	Stomach	1	41	Ocsophagus	î	100	Larynx	i
			53	Stomach	î	117	Mesent. and per.	. î
		4	62	Tongue	ĩ		1	
	Halford Road		71	Skin	1			3
22	Breasts	1	76	Stomach	1		Hano Street	
		1	128	Bladder	1	53	Intestines	1
	Hall Street					1	Jarrison 1	
24	Breast	1			14		Harrison Avenue	15
1	In the Comment			Hanover Street		78	Liver	1
	Tamilton Street		181	Intestines	1	. 79 88	Gall bladder Liver	1
73	Jaw	1	215	Larynx	î	140	Tongue	1
126 134	Intestines Stomach	1	304	Pancreas	î	187	Prostate	1
	Larynx	1	327	Stomach	1	196	Intestines	1
	Intestines	1	350	Liver	1	215	Breast	î
	Intestines	1	382	Oesophagus	1	217	Penis	î
	Uterus	î	400	Stomach	1	224	Uterus	ĩ
		_	430	Liver	1	299	Intestines	1
		7	460 479	Uterus Stomach	1	342	Stomach	1
H	ammond Street		419	Stomach	1	346	Neck	1
	Mouth	1			10	411 414	Uterus	1
	Rectum	1			10	414 488	Stomach	1
	Stomach	1	H	ansborough Stree	t	549	Intestines Prostate	1
	Stomach	1	19	Liver	1	788	Stomach	1
94	Uterus	1	35	Intestines	1	878	Kidney	1
		-				818	Rectum	î
		5			2	879	Uterus	î

Harri	son AveContin	ued		(Allston)			Havre Street	
907	Bones	1	17	Uterus	1	9	Oesophagus	1
976	Pancreas	1		oterdo		53	Oesophagus	ĩ
927	Liver	î			2	63	Tongue	ĩ
997	Rectum	î		11	2	131	Oesophagus	î
1007	Breast	î		Harvest Street		152	Larynx	î
1001	Dicast	1	12	Peritoneum	1	159	Lungs	î
		25	40	Throat	1	236		1
	Harrison Park	20				230	Stomach	1
					2	245	Breast Bladder	1
3	Intestines	1		Harvest Terrace		240		i
			1				Lungs	i
	Hartford Street			(Dorchester)		289	Uterus	T
11	Intestines	1	1	Breast	1			11
								11
	Hartland Street			Harwood Street		1	Hawthorn Street	
0	Liver	1		(Dorchester)		2	Breast	1
17	Uterus	î	0.0		1	24	Stomach	1
14	Oterus	-	28	Liver	1	30	Liver	1
		2	42	Liver	1			
	Hartwell Street	-			2			3
10		1			2		Hayden Street	
42	Pancreas	1		Haskins Street		33	Stomach	1
	Harvard Street		15	Intestines	1			5
			23	Liver	1		Hayes Street	
24	Stomach	1	35	Oesophagus	ĩ	-		
38	Stomach	1	00	occophiagao		7	Liver	1
40	Vulva	1			3			
60	Stomach	1		II Current	0		Haynes Park	
				Hastings Street		la	Uterus	1
		4	50	Prostate	1		010100	-
	Harvard Avenue		55	Intestines	1		II Street	
9	Breast	1	84	Stomach	1		Haynes Street	
21	Rectum	1			—		Intestines	1
32	Prostate	ĩ			3	47	Neck	1
57	Gall bladder	î		Hatch Street				
85	Stomach	î	10	Prostate	1			2
85	Liver	î	10	Frostate	T	E	lazelwood Street	
95	Breast	î				11	Stomach	1
149	Throat	î		Hathon Street		11	Liver	1
223	Uterus	î	3	Uterus	1			
239	Liver	1						2
239	Liver	-		Havelock Street			Heath Avenue	
		10	8	Rectum	1	31	Intestines	1
		10	0	Rectum	1	51	incounco	
	Harvard Street-			II I Connet			Heath Street	
	(Dorchester)			Haverford Street				
520	Rectum	1	8	Liver	1	55	Breast	1
			21	Liver	1	83	Larynx	1
	Harvard Park					111	Liver	1
9	Uterus	1			2		Liver	1
1	oterus			Haverhill Street		204	Liver	1
	Harvard Square		46	Tongue	1	275	Intestines	1 1 1 1 1
0		1		Lips	1	275	Intestines	1
9	Liver	1	0.0		-			7
6	Harvard Terrace-				2			1
1				Haviland Street			Hebron Street	
	(Brighton)		10		1	261	Stomach	1
16	Stomach	1	18	Breasts	1	201	Stomach	*

	Hecla Street		Hichborn Street	3	17 11	
19		1			17 Uterus	1
38		1	40 Uterus	1	17 Uterus 24 Liver	1
49		1	78 Uterus	1	24 Liver	1
1.	Account	1				
		3	High Road	2	Holborn Street	5
	Hefferan Street	0		2		
9		1	27 Stomach	1	8 Stomach	1
	neetum	1	43 Stomach	1	9 Breast	1
	II.I. D. I		52 Stomach	1	40 Stomach	1
	Helene Road		66 Uterus 751 Liver	1		-
12	Stomach	1		1	Hallas I C.	3
			95 Rectum 109 Bladder	1	Holbrook Street	
	Hemenway Street		134 Neck	1	14 Breast	1
17	Breast	1	148 Stomach	1	18 Intestines	1
26	Liver	î	140 Stomach	1	23 Rectum	1
26	Breast	1		9	24 Intestines	1
136	Vagina	1	Highgate Street	9		-
148	Intestines	1				4
175	Intestines	- 1	17 Rectum	1	Holden Row	
238	Uterus	1	Highland Park		7 Stomach	1
			4 ¹ / ₂ Intestines		Halil C	
	and the second second	7	42 Intestines	1	Holiday Street	
	Henchman Street		Highland Street		13 Intestines	1
20	Stomach	1	16 Liver and g. b.	1	Hollingsworth Street	
		570	20 Pancreas	î	80 Intestines	
	Hendry Street		24 Liver	ĩ		1
23	Uterus	1	140 Stomach	ĩ	129 Testes	1
37	Stomach	1	159 Intestines	1		
37	Intestines	1	163 Pancreas	1	Hollon J. C.	2
0.	Antestines	T	175 Intestines	1	Hollander Street	
		3	177 Neck	1	27 Breast	1
	Hanlan Street	5	196 Stomach	1	47 Stomach	1
50	Henley Street		285 Prostate	1		
52	H. palate	1	291 Throat	1	11 11 1 0	2
			296 Rectum	1	Hollock Street	
	Hemman Street		326 Ovary	1	81 Uterus	1
70	Uterus	1			Holmon C.	
			77: 1 D .	13	Holman Street	
	Herman Street		High Rock		9 Intestines	1
9	Stomach	1	7 Bladder	1	Holmes Street	
17	Face	1	Hill Street			
		1			58 Stomach	1
		2	5 Stomach	1	Holmfield Street	
		-	Hillside Street		10 Pancreas	
	Hewins Street				12 General	1
07				1	12 General	1
27	Lungs	1	70 Stomach 148 Liver	1		-
	Hewlett Street		140 Liver	1	Holworthy Street	2
00				2	51 Breast	
22	Throat	1	Hinckley Street	3	51 Breast	1
87	Stomach	1		12	Habraha S.	
			15 Uterus	1	Holyoke Street	
		2	Hobson Street		17 Stomach	1
1	Hiawatha Road		11 Stomach	1	ll	
	Intestines	1	11 Others	1	Homes Avenue	
		-	II Others	1	5 Prostate	1

		By Str	eets	and Houses-Con	ntinued			
	Homer Street		22	Stomach	1	H	untington Avenue	
63	Stomach	1	27	Stomach	1	18	Breast	1
67	Stomach	î	28	Oesophagus	1	78	Tongue	ĩ
01	Stomacu	1				98	Stomach	î
		2			5	98	Breast	î
7	Iomestead Street	4		Howland Street		110	Liver	î
1			06		1	120	Intestines	1
9	Intestines	1	86	Stomach	1			1
24	Intestines	1	106	Intestines	1	124	Liver	1
27	Rectum	1	119	Stomach	1	128	Ovary	1
753	Prostate	1	120	Stomach	1	176	Stomach	1
35	Intestines	1	125	Oesophagus	1	203	Lungs	1
53	Prostate	1	125	Stomach	1	207	Breast	1
141	Stomach	1	125	Prostate	1	208	Intestines	1
						214	Rectum	1
		7			7	215	Breast	1
	Hopedale Street			Hubbard Street		352	Liver	1
		1	25	Stomach	1	376	Stomach	1
42	Intestines	1	20	Contach		460	Larynx	1
46	Stomach	1		II. Land Comment		479	Intestines	1
		_		Hubert Street		588	Uterus	1
		2	6	Breast	1	652	Stomach	1
	Hopkins Street					714	Uterus	1
-	Stomach	1		Hudson Street		*738	Uterus	ĩ
5		1	10	Intestines	1	841	Breast	î
27	Breast	1	10		1	841	Bone	î
43	Bladder	1	12	Stomach	1	841	Breast	î
		_	16	Bladder	1			1
		3	32	Prostate	1	841	Breast	1
	Horace Street		45	Liver	1	872	Intestines	1
91	Intestines	1	48	Stomach	1	884	Stomach	1
21	Thestines		134	Oesophagus	1	886	Rectum	1
	Hosmer Street				-			
-		1			7			29
7	Kidney	1		Hull Street		*House	e of the Good Shepherd	
			7	Stomach	1			
	Houghton Street			oronnaen	-			
27	Breast	1		II			Hutchins Street	
				Humboldt Avenue		10		1
	Houston Street		11	Stomach	1	42	Ovary	1
6	Peritoneum	1	32	a Stomach	1	80	Stomach	1
0	remoneum		69	Tongue	1			
	Howard Avenue		69	Intestines	1			2
			82	Stomach	1			
9	Lungs	1	121	Kidney	1			
58		1	224		1	H	lyde Park Avenue	
83	Intestines	1	221	Liver	_	10	Intestines	1
104	Stomach	1			7	57	Stomach	1
117	Uterus	1		Humphreys Street		64	Intestines	1
124		1				80	Bones	1
143		1	18		1	102	Peritoneum	1
168		1	20		1	299	Tongue	1
100	Diomach		- 35	Breast	1	311	Uterus	î
		8				568	Prostate	î
	Howe Street	0			3	1040	Ears	1
				Hunnewell Avenue				1
38	Prostate	1			1	1128	Lips	1
			15	Lungs	1	1128	Ovary	1
	Howell Street			II.min Current		1164	Prostate	1
8	Stomach	1		Hunter Street				12
21		1	7	Stomach	1			12

	I Street			Indiana Suma				
10		1		Irvington Street			Josephine Stree	t
40		1	5	Breast	1		15 Breast	1
187		1		Oesophagus	1		22 Uterus	1
1.01	Diddaet	1						
		3		Ivanhoe Street	2		1 23 1 23	2
	Idaho Street		20				Joy Street	
60			30	Larynx	1		Neck	1
62 67		1		2			37 Stomach	1
01	Oterus	1		Ivory Street			17 Stomach	1
		2	25	Stomach	1			
	Idlewild Street	4						3
20		1		Jackson Place			Judson Street	
20	Stomach	1	5	Intestines	1		13 Stomach	1
	1-1				1	2	24 Uterus	1
1.40	Indiana Avenue			Jamaica Street				
143	Intestines	1	58					2
	2 2 3		00	race	1		Julian Street	
	Ingleside Street			1020			1 Uterus	1
8	Rectum	1		James Street			4 Prostate	1
9	Stomach	1	12	Uterus	1		4 Breast	1
13	Uterus	1	14	Intestines	1	a	2 Intestines	1
			15	Uterus	1			
	0.000	3	17	Bladder	1		10.11.11.1	4
	Intervale Street						Juniper Street	
5	Uterus	1		1 0	4		5 Uterus	1
27	Intestines	1		Jay Street			K Street	
42	Liver	1	1	Stomach	1	10		
74	Breast	1	3	Jaw	1	13		1
91	Stomach	1				14		1
103	Bladder	1		I.a. C.	2	18 26		1
126	Kidney	1	15	Jefferson Street Breast		28		1
		7	15	Dreast	1	28		1
	1 1 10	1		20202000000		349		1
	Indwood Street			Jeffries Street		364		1
5	Rectum	1	8	Stomach	1	379		i
						384		î
	Iowa Street			Jess Street		389) Breast	î
11	Neck	1	3	Intestines	1	* 399) Tonsil	1
	Ipswich Street			Johnston Road				12
30	Bladder	1	10	Rectum	1		Kane Street	
		<u> </u>	26	Testes	î	2	2 Stomach	1
	Irma Street		31	Intestines	1		<i>V</i> 0	<u>_</u>
7	Uterus	1					Kearsage Street	
	orerus	1			3	3	Breast	1
	Irwin Avenue			Johnston Street			Kemble Street	
3	Stomach		55	Stomach	1	2		
8	Rectum	1				3	Uterus	1
14	Oesophagus	1		Joiner Street			Kempton Street	
	o coopinagus	1	4	Breast	1	25		1
		3	8	Rectum	1	32		1
	Irving Street	0	11	Stomach	1	44		1
33	Liver				-		a construction of the second s	-
00	THAT	1			3			3

		D.	, Succes	and mouses (onunucu			
	Kendall Street			Kitredge Street			Lamont Street	
6	Stomach	1	106	Tongue	1	38	Rectum	1
41	Bladder	î	188	Stomach	ĩ			
56	Bones	1					Langdon Street	223
61	Ovary	1			2	2	Intestines	1
72	Stomach	1		Kneeland Street		4	Stomach	1
			100	Stomach	1	8	Stomach Intestines	1
	17 1 C	5		N . I. C .		11 36	Lung	1
	Kenrick Street			Knight Court		52	Oesophagus	î
14	Liver	1	1	Uterus	1	02	occophiagao	_
K	Censington Street			Lyman Street				6
13	Liver	1	2	Jaw	1		Lansing Street	
17	Neck	î	17	Liver	î	3	General	1
1.		_		231701	-		Larch Place	
		2			2	1		1
	Kent Street			L Street		-		1
12	Gall bladder	1	158	Bone	1	1	Larchmont Street	
32	Stomach	1	225	Intestines	1	19	Uterus	1
35	Jaw	1	700	Stomach	1	6	Ovary	1
		3			3			2
	Kenton Road	9		Laconia Street	0		Lanark Road	2
63	Stomach	1	0		,	101		1
64	Breast	î	9	Stomach	1	101	Bladder	1
01	Dicase	_		Lafield Street			Laurel Street	
		2	22	Intestines	1	31	Uterus	1
	Kenwood Street					48	Intestines	1
17	Oesophagus	1		Lake Street				
38	Bladder	1	(Cenacle Convent)			2
62	Prostate	1		Bone	1		Lawn Street	
		3	16	Uterus	1	40		1
	Keswick Street	3	70 222	Bone Uterus	1	49 66	Oesophagus Throat	1
		1	222	Oterus	_	00	Intoat	_
6	Others Intestines	1			4			2
16	Intestines			Lamartine Stre	et		Lawrence Street	
		2	3	Jaw	1	20	Stomach	1
	Kimball Street		. 17	Uterus	1	20	Intestines	1
23	Uterus	1	103a		1	24	Bladder	1
28	Face	1	140	Jaw	1	25	Uterus	1
			146	Breast	1	34	Stomach Uterus	1
		2	160 186	Stomach Uterus	1	49	Oterus	_
	King Street		200	Neck	î			6
45	Breast	1	212	Bladder	1		Lawrence Avenue	
51	Intestines	1	300	Ovary	1	79	Bone	1
119	Liver	1	302	Bladder	1			
128	Intestines	1			11		Lee Street	
		4		Tambart Course	11	19	Liver	1
	Vina Torreso	1		Lambert Street	1		Leedsville Street	
0	King Terrace	1	21	Stomach	1	10	Throat	1
9	Pancreas	1	31 34	Prostate Liver	1	10		*
	Kingsdale Street		34	Liver	_		Leicester Street	
81		1			3	35	Lungs	1
01	Stomach	-						

	Lenox Street			Lexington Aven	ue		Linwood Park	
63	Uterus	1	8		1	1		
		¹		Stomach	1	1		
	Leon Street			Leydon Street		0	Breast	
-			71					
7	Stomach	1	71		1		1. 10	
24		1	115	Stomach	1		Linwood Street	
33	Uterus	1				19	Oesophagus	
39	Liver	1			2	46	Breast	
				Leyland Stree	t		Breast	
		4	8					-
	Leonard Street		16		1			
38	Uterus	1	27		1		Lithgow Street	
00	Oterus	1	21	breast	1	52		
	Leonsdale Street					0.5	needun	
10					3		61 12 ACT	
40	Kidney	1		Liberty Street			London Street	
			9		1	75	Intestines	
	Leroy Street			ocsophagus	1	76	Bladder	
9	Intestines	1		Lincoln Street		146	Breast	
24	Liver	i	14			157	Face	
27	Liver	î	21	Uterus	1	183		
			21		1	100	Tongue	
		3	21 23	Stomach Liver	1			-
	Leslie Street	3			1		2	
0			29	Face	1		Long Avenue	
8	Kidney	1	216	Stomach	1	46	Breast	
12	Breast	1						
					6		same menager of same	
		2	L	inden Park Str	eet	L	ongmeadow Stree	t
	Letterfine Street			Prostate		16	Face	
4	Liver	1	1	1 lostate	1		1 400	
				7. 1				
	Levant Street			Linden Place		L	ongwood Avenue	8
2	Gall bladder	1	1	Stomach	1	30	Uterus	10
0.70	our praduct	.*				123	Oesophagus	6
	Leverett Street			Linden Street-		245	Rectum	
58	Stomach	1		(Dorchester)		257	Intestines	
76	Oesophagus	1					anteonines	
87	Lungs	1	4	Intestines	1			/
98		1	10	Intestines	1		T	
2.7	Stomach	1		Stomach	1		Lonsdale Road	
101	Intestines	1	49	Breast	1	45	Stomach	1
103	Bone	1				62	Intestines	1
222	Liver	1			4	107	Breast	1
			Lin	den Street-(B	ri.)	121	Intestines	1
		7		Stomach	1			_
1	Lexington Street		81	Jaw	1			1
7	Intestines	1	84	Breast	1		Loring Street	
28	Brain	1	87	Bone	1		Loring Street	
43	Intestines	î.	01	Dolle	1	11	Liver	1
47	Lip	î				55	Breast	1
18	Breast	î			4	59	Oesophagus	1
93	Liver	1		Lindsey Street				
03	Intestines	1	50	Neck	1			3
04	Uterus	1		Uterus	1		Loretta Street	
17		1					Stomach	
287	Stomach	1			2	0	otomach	1
.01	Stomach	1		T	4			
		-		Linnet Street			Lorna Street	
		10	31	Liver	1	55	Stomach	1

	Lorne Street			Lyon Street			Maitland Street	
42	Liver	1	5	Uterus	1	1	Stomach	1
59	Stomach	î	0	orerus		8	Stomach	1
				M Street				2
	Lorraine Terrace	2	87	Intestines	1		M II Com	4
			119	Kidney	1		Malden Street	
10	Uterus	1		Brain	1	9	Liver	1
	Lorraine Street		155	Oesophagus	1	120	Stomach	1
32	Stomach	1						2
36	Prostate	1			4		M 11 C	4
30	Tiostate	_		Madison Street		2.222	Mall Street	
		2	17	Stomach	1	30	Breast	1
	Lothrop Road		30	Uterus	î	31	Uterus	1
4		1	00	otoruo	_	48	Intestines	1
	otomaci	1			2			3
L	ouis Prang Street						Mallon Park	0
8	Uterus	1		Manuta Sur				
65	Bladder	1		Magazine Street		34	Intestines	1
				Oesophagus	1			
		2	61	Jaw	1		Malone Street	
	Lowell Street				2	7	Intestines	1
16	Stomach	1		and the second of the	4		Anteonines	-
30	Breast	1		Magdalen Street			Malvern Street	
59	Throat	1	6	Jaw	1			1
		2	40	Lung	1	11	Bone	1
	Lubec Street	3						
					2		Mansfield Place	
9	Liver	1		Magnolia Street		2	Breast	1
	Lucerne Street		12	Ovary	1			
53	Prostate	1	15	Intestines	1		Mansfield Street	
65	Lung	î	15	Breast	1	6		1
85	Stomach	ĩ	15	Intestines	1	6	Breast	î
00	0.0.0.0		15	Lungs	1	0	Dicast	_
		3	21	Pancreas	1			2
	Lyman Street		23	Stomach	1		Manthorn Road	
2	Jaw	1	32		1	10		1
17	Liver	1	88		1		Stomach Uterus	1
			90 106	Stomach Breast	1	48 99	Intestines	1
		2	112		i	100	Stomach	î
	Lyman Terrace		246		î	124	Intestines	î
8	Intestines	1	210	, Lindico J		1.00 1	11100111100	
	Lynde Street				13			5
10		1		M . C			Maple Street	
18		1		Main Street		38	Rectum	1
33	Uterus	1	20		1	43	Stomach	î
		2	116		1	52	Intestines	î
	Lyndhurst Street	2	379		1	91	Pancreas	1
67		1	421	Oesophagus	1	97	Pancreas	1
	Prostate Gall bladder	1	426 477	Uterus Uterus	1	201	Pancreas	1
66	Gan madder		464		î			
		2	510		î			6
	Lynville Terrace		510	Jun			Mapleton Street	
2	Uterus	1			8	32	Bone	1
4	Oterus	101						

	Marcella Street			Mason Street			Mayfield Street	
16	Stomach	1	6	-	1	19		1
20		î	0	Ctoniach				
32		î	Me	assachusetts Aver	nue		Mayo Street	
97	Stomach	í	9	Breast	1	21		1
101	Skin	1	49	Rectum	î	29		î
			143	Stomach	î	~	Incure	
		5	146	*Intestines	î			2
	Marine Road	-	146	*Intestines	î			-
106	Brain	1	146	Uterus	î		Maywood Street	
100	Diam	1	155	Liver	1	11	Stomach	1
	Marion Street		195	Uterus	ī	15		1
13	Stomach	1	206	Ovary	1	28		1
15	Stomach .	1	254	Breast	1	47	Intestines	1
21	Intestines	1	351	Intestines	1	68	Oesophagus	î
41	Rectum	1	358	Intestines	1	00	Ocsophagus	1
41	nectum	1	366	General	1			5
		4	394	Rectum	1		Mazing Street	0
	Market Street	.4	429	Stomach	1	0.0		
077			462	Stomach	1	30	Throat	1
257	Larynx	- 1	482	Bladder	1		11 T 0	
	M-11 C.		531	Stomach	1		McLean Street	
	Marlboro Street		539	Throat	1	12	Prostate	1
108	Stomach	1	540	Stomach	1			
115	Liver	1	540	Intestines	1		McLellan Street	
170	Kidney	1	556	Stomach	1	10	Liver	1
176	Breast	1	570	Breast	1	36		î
219	Bladder	1	572	Rectum	1	43	Stomach	î
338	Oesophagus	1	578	Intestines	1	10	otomach	
380	Liver	1	582	Uterus	1			3
392	Bladder	1	586	Prostate	1			0
405	Rectum	1	603	Stomach	1		Mead Street	
426	Intestines	1	621	Breast	1	20	Rectum	1
572	Uterus	1	684	Oesophagus	1	31	Liver	1
			687	Liver	1			-
		11	693	Uterus	1			2
	Marshall Place		716	Uterus	1		Meander Street	
7	Stomach	1	933	Intestines	1	13	Intestines	1
			1275	Intestines	1			
1	Marshfield Street		1280	Uterus	1 .		11 1 1 0	
7	Stomach	1					Mechanic Street	
29	Vagina	1			36	20	Oesophagus	1
34	Stomach	1	*Massa	chusetts Chambers				
				M.J. C.			Medford Street	
		3		Mather Street		12	Stomach	1
			8	Stomach	1	86	Stomach	1
	Martin Street		55	Breast	1	100	Liver	1
85	Stomach	1				584	Lip	1
		- C			2	004	LAP	1
	Maryland Street			Maverick Street				4
4	Bladder		47	Intestines	1			-P
12	Uterus	1	49	Intestines	1	1	Melbourne Street	
14	oterus	1	53	Stomach	1	11	Oesophagus	1
		2	91	Penis	1	12	Stomach	1
	Marrie	4	127	Liver	1	20	Tongue	1
	Mascot Street							
69	Oesophagus	1			5			3

	Melrose Street		A	lichaelangelo Stree	t		Milton Street	
6	Oesophagus	1		Stomach	1	79	Bone	1
62	Stomach	î		Stomach	1. I.I.I.	115		1
	oronnaon	*		Michigan Street				1
		2	3		1	236	Liver	1
	Melville Avenue	4	3	Dreast	1			-
100		2		Middle Street			100 0	3
4	Tongue	1	80		1		Milton Road	
103	Vagina	1	00	Stomach	1	17	Intestines	1
				Middlesex Street				
		2	13				Minot Street	
	Mercer Street				1	1	General	1
22	Stomach	1	13	Liver	1	6	Stomach	î
35	Stomach	î	33	Stomach	1	55	Intestines	ĩ
43	Rectum	î	47	Breast	1	148	Kidney	î
44	Larynx	1	60	Larynx	1		indie)	_
45	Stomach	1	72		1			4
72	Prostate	1	73	Stomach	1		Minton Street	4
12	riostate	1	73	Intestines	1			
		_	76	Intestines	1	4	Breast	1
	Marilia Com	6					Mitchell Street	
	Meridian Street				9	000		1
49	Liver	1		Middleton Street		290	Prostate	1
106	Intestines	1	20	Peritoneum	1	,	Monadnock Street	
109	Oesophagus	1	20	remoneum	1			13
244	Uterus	1		Midland Street		3	Stomach	1
287	Breast	1	26			25	Bone	1
364	Stomach	1	20	breast	L.			-
365	Prostate	1		Milford Street				2
370	Stomach	1				1	Monmouth Street	
379	Neck	ĩ	1	Stomach	1	8	Breast	1
385	Uterus	î	10	Ocsophagus	1	40	Brain	î
393	Oesophagus	î	11	Rectum	1	10	Diam	
396	Uterus	1	38	Intestines	1			2
408	Intestines	1					Monroe Street	-
416	Face	1			4	11		
421	Stomach	1		Mill Street		66	Stomach	1
428		1	28	Stomach	1	88	Rectum	1
477	Ovary	1			-			
411	Bone	1		Millers Lane				2
		1.7	21	Liver	1		Montebello Road	
	M C.	17				28	Bone	1
	Meridith Street			Miller Park		70	Throat	1
11	Breast	1	1	Breast	1			_
			-	Dicust	1			2
	Merlin Street			Millet Street			Montello Street	177
13	Uterus	1	65	Liver	1	14	Rectum	7
10	otorus	1			1	14	Rectum	1
	Metcalf Street		97	Bone	1		Montfern Street	
						0.1		
15	Uterus	1		NUL C	2	24		1
				Mills Street		36	Liver	1
Me	tropolitan Avenue	2	12	Uterus	1	54	Uterus	1
331	Stomach	1						
694	Prostate	1		Milton Avenue				3
108808.0			22	Uterus	1	M	ontgomery Street	
		2	92	Bone	î	44	Stomach	1
			94	Oesophagus	î	10000		2.50
Me	tropolitan Terrace	•	24	Ocsophagus	T		Montrose Street	
7	Breast	1			3	4	Pancreas	1
(Dicast	1			0	.1	1 anoreas	T

By Streets and Houses-Continued

	Montview Street			Moseley Street		84	Uterus	1
53	Liver	1	14	Stomach	1	87	Intestines	1
			73		1	96	Bone	1
1	Monument Street							12
15	Liver	1		N 1 0	2		Muluan Street	12
				Moulton Street		1.7	Mulvey Street	
1	Ionument Square		48	Neck	1	17	Oesophagus	1
	Stomach	1		Mountfort Street				
10	otoniden	-	60	Pancreas	1		Munroe Street	
1	Ionument Avenue		96		î	5	Brain	1
22	Pancreas	1	20	Dicust				
48	Neck	î			2		Murdock Street	
56	Stomach	1		Moultrie Street		41	Oesophagus	1
67	Uterus	1	40	Uterus	1	52	Bladder	î
			47	Intestines	1			
		4						2
	Moore Street				2		Museum Road	
35	Stomach	1		Mountain Avenue		10	Cheek	1
75	Neck	1				10	Uterus	1
88	Liver	1	02	General	1			
116	Stomach	1		Mozart Street				2
		_	38	Liver	1		Myrtle Street	
		4	87	Stomach	î	6	Rectum	1
	Moraine Street		89	Uterus	1	21	Uterus	$\frac{1}{1}$
74	Intestines	1				26	Bladder	1
75	Breast	1			3	27	General	1
				Mt. Fern Avenue		60	Liver	1
		2	19	Liver	1	69 70	Liver Uterus	i
	Moreland Street			Mt. Hope Avenue		71	Rectum	1
10	Breast	1				74	Brain	î
38	Neck	1	99	Testes	1	82	Rectum	1
43	Uterus	1		Mt. Ida Terrace		99	Liver	1
$ \frac{103}{114} $	Breast Larynx	1	1	Rectum	1	127	Liver	1
114	Larynx	1			<u>^</u>			-
		5		t. Pleasant Avenue				12
	Morley Street	0		Skin	1		Mystic Street	
21	Stomach	1		Peritoneum	1 .	24	Gall bladder	1
21	Stomach	1	24	Liver	1	46	Oesophagus	1
	Morrison Street		58 90	Larynx Intestines	1			-
17	Breast	1	101	Rectum	1		N. C.	2
	Diouse	÷	114	Uterus	1		N Street	125
	Morse Street			crorus		$174\frac{1}{2}$	Liver	1
10	Liver	1			7			
		-	Л	It. Vernon Street			National Street	
	Morton Street		3	Rectum	1		Tongue	1
619	Breast	1	16	Uterus	1		ronguo	*
687	Intestines	1	24	Intestines	1			
736	Breast	1	36	Intestines	1		Nassau Street	
750	Uterus	1	39	Rectum	1	9	Intestines	1
801 1196	Pancreas Stomach	1	59 65	Kidney	1			
1150	Stomach	1	80	Intestines Stomach	1		Nawn Street	
		6	87	Stomach	î	1	Prostate	7
			0.	NA CALLO VIL	*	T	1 IUSIAIC	1

By Streets and Houses-Continued

1 1

	Nazing Street		160	Oesophagus
11		1	234	Rectum
47		î	264	Stomach
	Buch	_	267	Liver
		2	296	Intestines
	Nelson Street	0.70	415	Rectum
11	Breast	1	418	Breast
38	Stomach	1		
	otomuch	_		
		2		Newcomb Str
	Neponset Avenue		11	Pancreas
18	Liver	1	11	Intestines
18	Intestines	î	24	Stomach
59	Stomach	î	49	Uterus
59	Lip	î		
60	Oesophagus	î		
67	Neck	1	Ne	w England A
285	Lung	1	1	Oesophagus
372	Stomach	1		
402	Stomach	1	N	ew Health Si
		_	6	Jaw
		9		
	Neptune Road			Newland Stre
62		1	23	Oesophagus
14		ĩ	20	occopinguo
115	Intestines	ĩ		Newman Stre
			26	Liver
		3	31	
	New Street		51	Stomach
23	Mouth	1		
				Newport Stre
	Newark Street		22	Stomach
6	Intestines	1	30	
			54	Uterus
	Newbern Street		01	Oterus
31	General	1		
		0.7		Newton Stree
1	Vewbourne Street		8	Breast
14	Liver	1	0	Dreast
	111101		N	ightengale St
	Newburg Street		3	Uterus
10	Prostate	1	3	Oterus
13	Lung	1		Nixon Stree
95	Stomach	î		
126	Intestines	î	24	Stomach
		_		Noanet Stree
		4	15	
	Newbury Street		15	Oesophagus
	Liver	1		Nonquit Stree
9	Uterus	î	12	Breast
14	Bone	î	14	Dicast
20	Liver	î		Norfolk Stree
121	Breast	î	31	Rectum
123	Uterus	î	49	Stomach
153	Stomach	î	74	Stomach
156	Intestines	î	120	Breast
		-		

264 267	Stomach Liver	1
296	Intestines	1
15		î
18		1
		15
	Newcomb Street	
11	Pancreas	1
11	Intestines	1
24 49		1
49	Oterus	1
Ne	w England Avenue	4
1	Oesophagus	1
	lew Health Street	
6	Jaw	1
	Newland Street	
23	Oesophagus	1
	Newman Street	
26	Liver	1
	Stomach	1
		2
	Newport Street	
22	Stomach	1
30	Intestines	1
54	Uterus	1
		3
	Newton Street	
8	Breast	1
N	ightengale Street	
3	Uterus	1
	Nixon Street	
24	Stomach	1
	Noanet Street	
15	Oesophagus	1
	Nonquit Street	
12	Breast	1
	Norfolk Street	
31	Rectum	1
49	Stomach	1
74	Stomach	1
20	Breast	1

343 389	Ovary Stomach	1 1
		6
	Norfolk Avenue	
166	Oesophagus	1
	Norman Street	
17	Stomach	1
	Normandy Street	
19	Stomach	1
21	Kidney	1
266	Stomach	1
		3
	North Avenue	-
6	Intestines	1
	North Street	
27	Peritoneum	1
246	Neck	î
277	Pancreas	1
289	Stomach	1
309	Liver	1
		5
Ne	orthampton Street	
34a	Uterus	1
175	Liver	1
381 391	Bladder	1
	Uterus Stomach	1
571	otomach	_
		5
	orthern Avenue	
375	Liver	1
	th Anderson Street	
4	Rectum	1
N	o. Beacon Street	
	Intestines	1
	Vulva	î
		-
A.	o. Bennett Street	2
	Stomach	1
		1
	Vo. Grove Street	
7	Intestines	1
	b. Harvard Street	
16	Liver	1
130	Breast	1
		2

		by Str	cets	and Houses	ontinuea			
Λ	o. Margin Street			Oak Avenue			Oakview Street	
64	Rectum	1	20	Ovary	1	5	Oesophagus	1
			46	Stomach	1	30	Stomach	1
	No. Mead Street				2			2
19	Uterus	1			2			4
Λ	lo. Monroe Street		0	ak Street, (H. P.))		Oakwood Street	
	Stomach	1	53	Uterus	1	22	Intestines	1
		107-00	0.	k Street—(Bostor			Ocean Street	
Λ	lo. Russell Street		3	Breast	1	11	Uterus	1
46	Bladder	1		Pancreas	i	14	Intestines	î
72	Stomach	1	00			47	Ovary	1
		2	0		2	103	Uterus	1
N	o. Rutland Square			k Street—(Charls	.)			4
	Intestines	1	83	Intestines	1		Oldharbor Street	
				Oak Square		45	Breast	1
	Northfield Street		8	Breast	1	56	Breast	1
37 64	Stomach Breast	1	70	Bladder	î			2
0.1	Dreast	-					Olive Place	4
		2			2	3	Stomach	1
	ton Street (H. P.))	0	ak Square Avenu				
50	Stomach	1		Stomach	1	7	Olney Street Liver	1
59 88	Stomach Prostate	1	5	Stomacn	1	7 15	Intestines	1
00	11001010	-		Oak Terrace		10	inconnoo	
		3	21	Rectum	1		0.11.0	2
	Norway Street						Oneida Street	
24 35	Neck Pharynx	1	0	ak Grove Terrace		33 36	General Mesentery	1
49	Breast	î	18	Kidney	1	30	Mesentery	
51	Stomach	1		0.111.0				2
103	Uterus	1	10	Oakdale Street			Orchard Street	
		5	10	Liver	1	5	Intestines	1
	Norwell Street	9		Oakland Street		6 78	Intestines Intestines	1
22	Stomach	1	9	Kidney	1		Mesentery	î
27	Intestines	1	10	Uterus	î			
130 181	Liver Intestines	1			_		Oregon Street	4
101	incestines	_		Oakley Road	2	14	Intestines	1
		4	23	Prostate	1	19	Stomach	î
	Norwich Street		20	Trostate	1			
17	Neck	1		Oakley Street			0.1.1	2
Δ	ottingham Street		27	Intestines	1	2	Orient Avenue	
	Rectum	1	37	Pancreas	1	3 170	Stomach Bone	1
		10 A			2	110		
	O Street	-		Oakman Street	4			2
9 113	Uterus Breast	1	1	Intestines	1	07	Orkney Road	
113	Bladder	1			1.000	27 40	Rectum Pancreas	1
				Oakridge Street		-10	a ancreas	-
		3	16	Prostate	1			2

83 85 108	Stomach	1	206 277 296 317	Stomach Neck	1 1 1	5 21	Stomach	Bri.) 1 1
100	Oterus	1	517	Bones	1	21	Tongue	1
		3			7			3
	Oscar Street			Park Squar	e	D		1.000
1	Uterus	1	2	Stomach	1		kman Street—(L)or.)
	Oswego Street		28	Stomach	1	2	Penis	1
2		1			-		DI. DI	
-		*	Р	ark Street-()	2 Bri.)	71	Parkton Road	
	Otisfield Street			Breast	1	71	Breast	1
8	Bladder	1						
	Oxford Place		Pari	k Street—(₩.	Rox.)		Park Vale Avenu	e
2	Liver	1	3	Rectum	1	32 56		1
5	Stomach	1	8	Liver	1	30	nectum	1
11	Liver	1	74	Intestines	1			2
		—	86	Stomach	1		DIVIC	
	0110	3	107	Neck	1		Park Vale Stree	t
	Oxford Street		110	Uterus	1	3	Intestines	1
26	Liver	1	112 127	Uterus	1		Liver	1
30	Liver	1	195	Intestines Intestines	1			2
		-	228	Prostate	1			2
		2	240	Breast	î		Parsons Street	
	Oxford Terrace				_	24	Breast	1
2	Breast	1			11	28	Liver	1
		<u></u>	n			56	Uterus	1
100	P Street			ker Street-(C				
108	Prostate	1	28	Stomach	1			3
128	Rectum	1	Dar	ker Street-(1	Paul)		Pasadena Road	
		2			tox.)	15	Skin	1
	Pacific Street	4	141 450	Rectum Vulva	1			
6	Intestines	1	679	Neck	1		Patterson Street	
9	Pancreas	i	683	Breast	î		Uterus	1
9	Neck	î	684	Tongue	î		C FOI HO	*
10		_		Liver	1		Paul Gore Street	
		3	725	Stomach	1			
	Page's Court		726	Breast	1	63 96	Rectum	1
3	Stomach	1	727	Neck	1	112	Oesophagus Lungs	1
			760	Breast	1	126	Uterus	1
	Palfrey Street		781 802	Bladder Liver	1	220	otoruo	
4	Bladder	1	804	Pancreas	1			4
18	Lungs	1	814	Intestines	î		D 1 1 C.	
		_	826	Breast	î		Peabody Street	2
	D.1 D1	2	952	Stomach	ī	9	Throat	1
10	Palmer Place				—			
4	Ovary	1		1	16		rl Street-(Chasi	n.)
	Paris Street			arker Hill Ave	nue	37	General	1
0.1			43	Intestines	1	40	Intestines	1
81	Kidney	1	760	Breast	1	43	Liver	1
$100 \\ 125$	Stomach Stomach	1			2			3
140	Stomach	*			4			3

Pe	arl Street-(Dor.)			Perrin Street	
21	Breast	1	46	Lungs	1
37	Breast	1			
43	Uterus	1		Peterboro Street	
43	Uterus	1		Pancreas	1
			50	Uterus	1
		4			-
	Pelham Street		D	Desta Dest	2
	Uterus	1		eter Parley Road	
52	Ovary	1	71	Lungs	1
		_		Phillips Street	
	D I. C.	2	13		1
	Pembroke Street		15		1
1	Stomach	1		Oesophagus	i
.9	Bones	1	43	Stomach	î
15 33	Tongue	1		Peritoneum	$1 \\ 1$
33 47	Neck Stomach	1	86		î
51	Lungs	1	0.55.53		
67	Bladder	1			6
69	Stomach	1		Pierce Street	
69	Stomach	î	19	Stomach	1
98	Uterus	î	109	Stomach	1
113	Stomach	1			
115	Uterus	1			2
				Pierce Avenue	
		12	64	Ovary	1
	Penfield Street			D' 1 C.	
37	General	1		Pinckney Street	
			42		1
-	Penhallow Street		45		1
15	Breast	1	72		1
1	Penobscott Street		76 92	Stomach Tonsil	1
			92	Stomach	1
10	Liver	1	55	Stomach	1
	Percival Street				6
50	Uterus	1		Pine Street	Č
56		î		Prostate	1
00			8	Oesophagus	î
		2		o cooping do	
	Perham Street				2
60	Stomach	1		Plant Avenue	
69	Breast	î	7	Liver	1
274	Breast	î	8	Uterus	i
				010100	_
		3			2
	Perkins Place			Playstead Road	
7	Intestines	1	12	Breast	1
	Perkins Street		Pleas	ant Street-(Chas	n.)
28	General	1	5	Stomach	1
32	Stomach	1	DI.	Contract (D	1
56	Stomach	1		sant Street-(Doi	.)
			4	Breast	1
		3	7	Stomach	1

29	Rectum	$^{1}_{1}$
38	Uterus	1
38	Intestines	1
76 77	Stomach Vulva	1
85	Stomach	î
119	Neck	î
153	Stomach	î
100	Otomach	
	Dl	10
	Plymouth Street	
5	Skin	1
	Polk Street	
2	Liver	1
35		1
43	Liver	1
	Pond Street	3
9		1
14	Heart	î
47	Stomach	î
	otomatin	_
		3
	Pope Street	
34	Pancreas	1
P	Pope's Hill Street	
5	Stomach	1
	Poplar Street	
42	Breast	1
51		1
	Stomach	1
94	Stomach	1
103	Liver	1
104	Intestines Stomach	1
112	Stomach	1
		7
	Porter Street	
45	Stomach	1
59	Uterus	1
		2
P	Portsmouth Street	4
	Mouth	1
12		1
	Posen Street	
12	Pancreas	1
	Potter Street	
84	Uterus	1
	Powell Street	
60	Intestines	1
00	intestines	T

	Powellton Road		1	Princeton Street-	-		Radcliffe Street	
25	Breast	1		(Chasn.)		14		1
28	Uterus	1	26	Liver	1		Lungs	1
		-	20		1	1.4	Lungs	_
	Dames Current	2		Prospect Avenue				2
017	Power Street		14	Stomach	1		Ramsey Place	
215	General	1		Prospect Street		4	Uterus	1
	Pratt Street		18	Intestines	1		Ramsey Street	
9	Lungs	1	10	Prostate	1	10		
18	Breast	î	26	Neck	1	18 23	Stomach Prostate	1
49	Uterus	1	78	Rectum	î	25	Stomach	1
			368	Liver	î	-0	Stonaton	_
	Dealle Course	3					100	3
	Preble Street			D	5		Randall Street	
11 76	Stomach	1	00	Puritan Avenue			Intestines	1
10	Prostate	1	28	Stomach	1	45	Stomach	1
		2		Dutam DI				2
	Prentiss Street	-	0	Putnam Place		·	Randolph Street	2
33	Neck	1	2	Intestines	1		Stomach	1
45	Bladder	î		D		50	Stomach	1
		_		Putnam Street	-		Rawson Street	
		2	2	Ear	1	37	Intestines	1
	cott Street—(E.	B.)	73 133	Rectum Rectum	1		D C	
	Oesophagus	1	160	Breast	1		Ray Street	
43	Breast	1	100	DICUSE	_		Intestines	1
62	Breast	1			4	24	Kidney	1
		3	(ueensboro Street				2
Presc	ott Street-(Che	isn.)	11	Throat	1		Raymond Street	~
	Breast	1	15	Stomach	1		Oesophagus	1
		1	28	Breast	1	00	occophingus	
	scott Street-(Re	(x)	98	Pancreas	1		Reading Street	
26	Stomach	1	105	Vulva	1	97	Throat	1
	Primrose Street				5		D 1 11 C	
31	Breast	1		Quincy Street	9		Readville Street	
01		^	24	Stomach	1		Uterus	1
	Prince Street		27	Rectum	1	45	Stomach	1
32	Tongue	1	53	Kidney	î			2
Princ	eton Street-(E.	B.)	112	Intestines	1		Reed Street	
24	Uterus	1	156	Liver	1	60	Tongue	1
28	Stomach	î	208	Intestines	1	00	rongue	1
38	Intestines	î	264	Stomach	1		Reed Terrace	
106	Uterus	1	455 468	Uterus	1	5	Uterus	1
115	Liver	1	400	Rectum	1	5	Otorus	1
143	Kidney	1			9		Regent Circle	
184 233	Stomach	1		Quint Avenue		5	Stomach	1
233	Liver Liver	1	11	Bladder	1			
271	Intestines	1	16	Uterus	1		Regent Court	
285	Lip	1	57	Intestines	î	4	Face	1
316	Stomach	1	61	Breast	1			
							Regent Square	
		12			4	1	Intestines	1
		12			4	1	Intestines	1

	Regent Street			Riverview Street			Rockwell Street	
38	Ovary	1	39		1	47		
69	Ear	1			÷	54		1
124	Breast	1		Riverway Street		58		í
124	Intestines	1	204	Intestines	1	00	Diam	- 2
			394	intestines	1			3
	2	4		Roach Street			Roddy Place	
	Remington Street		01			10		
3	Breast	1	21	Intestines	1	10	Breast	,
6	Lungs	1		Robert Street				
			10				Rogers Avenue	
		2	69	Face	1	10	Skin	1
	Rena Street							
2	Stomach	1		Robeson Street			Rollins Street	
		-	45	Intestines	1	18		1
	Revere Street					27		1
12	Liver	1	1	Robin Hood Street		21	Jaw	
37	Liver	1	3	Uterus	1			9
41	Bladder	1						4
74	Peritoneum	1		Robinson Street			Romar Terrace	
86	Stomach	1	49	Neck	1			
				11001	î	8	Uterus	1
		5	I	Robinwood Avenue				
	Richards Street			Bladder	1		Romsey Street	
11	Breast	1	20	Diadact	*	15	Intestines	1
				Rochester Street				
1	Richardson Street		22	Uterus	1		Roseclair Street	
14	Rectum	1	55	Oterus	1	10	Uterus	1
62	Intestines	1	1	Rockingham Street		72		1
						12	oterus	-
		2	19	Rectum	1			2
	Richmond Street			n 11 1 1			D 11 0	-
74	Tongue	1		Rockland Avenue			Rosedale Street	
			7	Uterus	1		Intestines	1
1	Ridgewood Street					34	Ovary	1
51	Intestines	1		Rockland Street				-
		î.	18	Tongue	1			2
1	River Street (B.)		19	Stomach	î		Rosella Street	
	Breast	1	24	Gall bladder	1 .	0.4	Uterus	1
108	Cheek	î	63	Bladder	1	24	Oterus	T
		_	85	Uterus	1		D C	
		2	101	Breast	1		Rosemary Street	
Rit	ver Street-(H. P.)) -				17	Intestines	1
586	Breast	1			6			
659	Rectum	î		Rockledge Street			Rosemont Street	
714	Liver	î		Stomach		14	Rectum	1
861	Uterus	î	4	Stomach	1	15	Neck	î
873	Liver	î		2 1999 BEEN		38	Liver	ĩ
915	Bladder	1		Rockview Street		43	Rectum	ī
1017	Uterus	1	15	Intestines	1			_
1117	Uterus	1	17	Bladder	1			4
1481	Breast	1	53	Uterus	1		Roslin Street	-
1830	Liver	1				42	Throat	1
1841	Liver	1			3	00		
				Rockville Park		1	Roslindale Street	
		11	19	Liver	1		Stomach	1
				CHARLES THE STREET			A CONTRACT OF A	

		~ /	oncero	und nouses of	munucu			
	Rosseter Street			Ruthven Street			Samoset Street	
20	Breast	1	9	Rectum	1	39	Stomach	1
75		î	128	Brain	î			
164		î	120	Dram			C	
	A OHOIT	-			2		Saratoga Street	
		3		Rutland Square	2	21	Intestines	1
	Rossetin Place	5				46	General	1
0			11	Intestines	1	46	Uterus	1
8	Uterus	1	19	Rectum	1	143	Breast	1
	Rossetta Street		20	Breast	1	243	Rectum	1
01			36	Stomach	1	301	Gall bladder	1
91	Uterus	1	41	Breast	1	320	Prostate	1
	Rossmore Road		45	Uterus	1	324	Kidneys	1
10			47	Lip	1	344	Bladder	1
12	Throat	1	84	Bladder	1	404	Rectum	1
	Rowe Street					416	Intestines	1
-					8	425	Uterus	1
7	Lip	1		Rutland Street		480	Oesophagus	1
	Rowell Street		3	Liver	1	653	Stomach	1
0			7	Stomach	1	741	Uterus	1
9		1				799	Breast	1
23	Intestines	1			2	821	Stomach	1
		_		Rutledge Street		857	Stomach	1
	n 0.	2	9	Larynx	1	955	Liver	1
	Roxana Street			1 Rectum	î	1060	Stomach	1
18	Uterus	1		2 Recordin	_			_
					2			20
	Roxbury Street			S Street			Sargent Street	
54	Tongue	1	64			47	Rectum	1
87	a Uterus	1 .	64	Stomach	1		recording	-
308	Intestines	1	172	Stomach	1			
			229	Breast	1		Saunders Street	
		3			3	38	Liver	1
	Roxbury Terrace			Sachem Street	3			-
3	Peritoneum	1						
	ronoun	-	13	Tongue	1		Savin Street	
	Roys Street			Canana Ctract		3	Intestines	1
18	Stomach	1		Sagamore Street		12	Stomach	1
		·	6		1	15	Uterus	1
	Royal Street		11	Stomach	1	21	Stomach	1
22	Breast	1	28	Liver	1	21	Ovary	1
	Ruggles Street				_			
				01 1 0	3			5
50		1		Salcombe Street				
59		1	42	Stomach	1		Savin Hill Street	
259	Stomach	1		0.1 0.		22	Rectum	1
		_		Salem Street		23	Stomach	ĩ
	D 1 D 1	3	10	Stomach	1	47	Tonsils	1
	Ruskin Road		17	Bladder	1	53	Lungs	1
88	Breast	1	125	Uterus	1	59	Pancreas	1
	Russet Street		137	Liver	1	62	Stomach	1
						196	Uterus	1
66	Uterus	1		and the second	4	233	Intestines	1
	Rutherford Street			Salvation Street		337	Rectum	1
47		1	19	Intestines	1	341	Rectum	1
69		1				343	Stomach	1
09	Dicast			Salvisberg Avenue		010		-
		2		Liver	1			11
		-	0		2			

	Savoy Place			Seaverus Avenue		691	Kidney	1
13	Jaw	1	19	Liver	1	707		1
13	Stomach	1	19		î	741]
			50		î	757	Liver]
		2	00	Dicust				
	Savoy Street				3			24
11	Uterus				.0		Sheafe Street	
17		1		Sedgewick Street		6		1
11	Face	1		Rectum	1			
		2	93	Bladder	1		Shelby Street	
	· · ·	2				32	Uterus	1
	Sawyer Avenue				2		01.11.0	
4		1		Selwyn Street			Sheldon Street	
7	Rectum	1	24	Intestines	1	37	Uterus	1
60	Intestines	1		inconnes	1		CI. I. I.C.	
77	Vulva	1		Seminary Street			Shepherd Street	
			16	Lip		56	Intestines	1
		4	10	Lip	1		Slanda Const	
	Sawyer Street			0 11 0			Shepton Street	
55	Liver	1		Sewell Street		16		1
00	Laver		7	Intestines	1		Breast	1
			16	Intestines	1	76	Oesophagus	1
	Saxton Street							
32	Intestines	1			2			3
118	Stomach	1		Seymour Street			Sheridan Street	
			40	Oesophagus	1	76	Stomach	1
		2				97	Intestines	ī
	Sayward Street			Shafter Street				_
17	Rectum	1	11	Rectum	1			2
	accordina .	*			<u>^</u>		Sherwood Street	
	6.1.1.0.			Sharon Street		24	Skin	1
	School Street		38	Liver	1	10.000		-
30	Liver	1			^		Short Street	
60	Pancreas	1		Sharp Street		4	Rectum	1
69	Breast	1	2	Breast	1	1	Rectum	
167	Others	1	1.5		<u>^</u>		Sidlaw Road	
173	Neck	1	5	Shawmut Avenue		24	Intestines	1
177	Intestines	1		Liver	1	2.4	intestines	1
			208	Lungs	î		Sidney Street	
		6		Breast	î	100		
	Schuyler Street		265	Stomach	î	180	Oesophagus	1
15	Uterus		274	Stomach	î	185	Intestines	1
10	Oterus	1	301	Uterus	î			
	0 0		324	Intestines	î			2
	Seaver Street		330	Uterus	î		Sigourney Street	
20	Stomach	1	344	Rectum	î	1	Intestines	1
72	Stomach	1	411	Uterus	î		Anteonneo	^
82	Intestines	1	415	Bladder	î		Silver Street	
82	Breast	1	431	Intestines	î	45	Uterus	1
107	Lung	1	443	Jaw	1	118	Breast	1
274	Lung	1	450	Liver	1	130	Liver	1
356	Prostate	1	458	Uterus	1	164	Testes	1
391	Uterus	1	466	Stomach	1	297	Uterus	1
393	Stomach	1	599	Stomach	1	377	Liver	1
401	Breast	1	601	Uterus	1	2460	Stomach	1
			633	Rectum	1	100	Stomath	1
		10	685	Stomach	ī			7

	Smith Street			Southern Avenu	p		Staniford Place	
11	Larynx	1	17	Liver	1.	2	Stomach	
23	Oseophagus	î	57	Intestines	1	29	Stomach	1
	occopingus		104	Stomach	î	9	Stomach	1
		2	131	Vagina	î			2
	Soley Street	2	101	, agina				
43	Breast	1		2 D D D D D D D D D D D D D D D D D D D	4		Stamford Street	£
10	Dictor	*		Southwood Stree	et	8	Intestines	1
	Somerset Street		179	Liver	1	34	Neck	1
24	Rectum	1				37	Oesophagus	1
26	Larynx	î		Speedwell Stree	t	37	Uterus	1
39	Intestines	î	8	Uterus	1	47	Stomach	1
			15	Stomach	î	63	Uterus	1
		3				146	Pancreas	1
	South Street				2	160	Liver	1
9	Uterus	1		Spencer Street				8
31	Uterus	1	12	Rectum				0
72	Stomach	1	35	Liver	1		Stanley Street	
85	Uterus	1	85	Stomach	1	-		
278	Uterus	1	00	Stomacn	1	7	Uterus	1
730	Liver	1			3	37	Intestines	1
817	Kidney	1		Spinney Street	3			2
831	Uterus	1	0					2
893	Stomach	1	9	Liver	1		Stanton Street	
893	Rectum	1		<i>a a</i>		50		
1020	Rectum	1		Sprague Street		52	Intestines	1
1020	Rectum	1	14	Stomach	1	65	Kidney	1
1047	Uterus	1						2
		10		Spring Park				4
Sau	th Fairview Str	13	20	Stomach	1		Station Street	
		eet		oromaon	<u>^</u>	8	Prostate	1
48	Uterus	1		Spring Street		0	1 TOState	
55	Tonsil	1	6	Stomach	1		Stamiford Stree	
			43	Intestines	1			
Sa	th Hamadan Sta	2	CP ⁺	intestines	1	12	Stomach	1
	uth Hampden Str	eet			2	81	Uterus	1
498	Stomach	1		e - 2 - 2 - 2		81	Uterus	1
South	h Huntington Av	enue	Spi	ring Garden Str	reet	84	Eye Neck	1
37	Prostate	T	5	Intestines	1	151	NECK	1
66	Stomach	1						5
00	Stomach	-	Su	ring Park Aven	ue		Storey Street	
		2	20	Prostate	1	0.5		
Sau	th Monroe Terro		29	Breast	î	35	Intestines Stomach	1
		ace	60	Rectum	î	53 59	Stomach	1
11	Stomach	1	63	Intestines	î	39	Stomach	1
So	uth Russell Stre	et	67	Intestines	î			3
9	Intestines	1	67	Breast	ī		Stoughton Street	
47	Uterus	î						1
-11	Otorus	_			6	130	Tongue	1
		2	S	pringvale Avenu	e		0. 1. 1.0	
South	Worthington S	treet		Breast	1		Stratford Street	3 33
1	Rectum	1	210		20	33	General	1
2	Stomach	1		Stan I'r L Start		190	Prostate	1
				Standish Street				-
		2	12	Pancreas	1			2

By Streets and Houses—Continued St. James Street

	Strathcona Roa	d
7	Liver	1
11	Stomach	1
11	Intestines	1
43	Intestines	1
		4
	Strathmore Roa	
	Breast	1
	Dicust	1
	Stratton Street	
95	Testes	1
	. Alphonsus Str	
	Uterus	1
99	Intestines	1
		2
	i de la D	
	t. Andrews Rod Gall bladder	
61	General	1
82		1
02	Liver	
		3
S	t. Botolph Stre	et
	Rectum	1
67	Intestines	ĩ
94	Uterus	1
125	Uterus	1
128	Uterus Liver Stomach	1
181	Kidney	1
191	Stomach	1
	Bladder	î
198	Uterus	ĩ
		10
S	t. Charles Stree	10
	Kidney	1
-	Actually 1	1
S	t. Francis Stree	et
7	Intestines	1
	Bladder	1
36	Intestines	1
		3
e	Comein Co	
18	t. Germain Stree	
32	Breast Liver	1
42	Stomach	1
		_
		3

14	Liver	1
27	Rectum	1
68	Skin	1
101	Liver	1
103	Stomach	1
	C. I. I.C.	5
	St. Joseph Street	
15	Lungs	1
	St. Lukes Road	
	Uterus	1
17	Bones	1
20	Bladder	1
		3
S	t. Margaret Street	
8	Neck	1
	St. Rose Street	
26		1
	Stomach	1
34	Stomach	1
		3
	t. Stephens Street	
27	Stomach	1
52		1
82	Breast	1
97	Pancreas	1
	G 1 0	4
	Stockton Street	
5	Stomach	1
	Stuart Street	
39	Stomach	1
	Sudan Street	
25	Breast	1
	Sullivan Street	
57	Uterus	1
	Summer Street	
10	Uterus	1
29	Breast	1
48	Stomach	1
79	Intestines	1
100	Stomach	1
128	Uterus	1
350	Intestines	1
361	Throat	1
		8

	Summit Avenue	
51	Liver	1
296	Stomach	1
302	Prostate	1
		3
	Sumner Street	
88	Kidney	1
90	Lip	1
158	Oesophagus	1
271	Pancreas	1
		4
	Sunnyside Street	
7	Liver	1
	Surray Street	
20	Surrey Street Liver	1
90	Liver	1
2	Sutherland Street	
96	Lungs	1
	Swallow Street	
7	Uterus	1
'	Oterus	1
	Sycamore Street	
81	Cheek Stomach Breast	1
105	Stomach	1
164	Breast	1
		3
	Sydney Street	
2	Intestines	1
43	Stomach	ĩ
93	Breast	1
50	Stomach	1
51	Stomach	1
63	Kidney	1
		6
	Sylvia Street	- 22
5	Uterus	1
	Taber Street	
15	Rectum	1
37	Stomach	î
		-
	Tale Suma	2
14	Taft Street Bones	1
35	Stomach	1
		1

By Streets and Houses-Continued

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		Talbot Avenue			Tetlow Street	onunued		Tileston Place
	147	Bladder	1	11	Stomach	1	5	
	147	General	1		oromach	1	3	INCCK
	192	Breast	1		Thane Street			Tileston Street
	210	Breast	1	28	Stomach	1	24	General
	239	Liver	1	20	Stomach	1	100	
	242	Gall bladder	1		Thatcher Street			Tiverton Road
	331	Liver	1	7.0			21	Stomach
	336 375	Breast Breast	1	13	Intestines	1		Tolman Street
	451	Prostate	1	19 31	Vulva Others	1		
	487	Uterus	1	187	Breast	1	34	
	516	Breast	i	101	Dreast	1	44	Intestines
	569	Liver	î			4		
	000	ALC 1	_		71. 1. 0.		1	Tonawanda Street
			13		Theodore Street			
		Taylor Street		33	Rectum	1	42 55	Intestines Liver
	90	Rectum	1	47	Bladder	1	143	Intestines
	116	Uterus	1				1.19	intestines
	110	oterus	1			2		
			2		Thetford Avenue			Topliff Street
	5		-	15	Ear	1	23	Lungs
		Telegraph Street		62	Stomach	1	89	Bladder
	5	Larynx	1				0,	Diuduci
		Intestines	1			2		
	73	Oesophagus	1		Thomas Park			Tower Street
			_	9	Kidney	1	81	Bones
		terrer treat	3	15	Intestines	1	100.0	
		Telford Place		45	Stomach	1		Townsend Street
	3	Throat	1				15	Stomach
						3	58	Lungs
		Temple Street		1	Chompsons Island		102	Intestines
	6	Jaw	1		Testicle	1	124	Intestines
	23	Intestines	ĩ				172	Breast
	25	Stomach	1		Thorn Street		199	Kidney
	26	Stomach	1	1	Neck	1	206	Breast
	99	Breast	1	-	ATCOL	*		
	130	Intestines	1	3	Thorndike Street			Train Street
]	134	Penis	1	12	Liver	1	47	
				52	Stomach	î	47	Uterus
			7					Treadway Road
	_					2		Prostate
		^r empleton Street			Thornley Street		24	Stomach
	23	Brain	1	14	Intestines	1	24	Stomach
		Templeton Way			Thornton Street			Tremont Street
		Tongue	1	36	Oesophagus	1		
	0.000	0-	12.83	45	Uterus	1	4 39	Neck Intestines
		Terrace Street		98	Liver	1	58	Uterus
	46	Stomach	1	112	Neck	1 1 1	72	Stomach
	90	Intestines	1	132	Intestines	1	98	Tongue
1	136	Stomach	î			-	356	Breast
	150	Lungs	1			5	434	Breast
1					Thurston Street		488	Intestines
			4	18	Oesophagus	1	567	Ovary

100	
1902	
104	

Trem	ont StContinue	ed.		Tudor Street			Unity Street	
577	Bladder	1	12	Larynx	1	1	¹ Mesentery	1
600	Uterus	1	77	Oesophagus	1	19		1
605	Stomach	1	135	Stomach	1	0.755		_
634	Intestines	1						2
641	Uterus	1			3		Upham Avenue	-
665	Prostate	1		m 1. C.	0.222	5		1
667	Stomach	1		Tufts Street		5	nectum	1
668	Rectum	1	40	Throat	1		Upton Street	
673	Stomach	1	42	Liver	1	26	Stomach	1
676	Stomach	1				29	Intestines	1
691	Uterus	1			2	32	General	î
705	Stomach	1		Turner Square		34	Intestines	1
709	Uterus	1	15	Uterus		39		1
725	Stomach	1	15	Uterus	1	39	Uterus	1
981	Liver	1				0,	otorus	
1022	Stomach	1		Turner Street				6
1026	Rectum	1	20	Ovary	1		Vale Street	
1031	Rectum	1				54		1
1081	Intestines	1		T. I.I. C.		0 ±	General	1
1081	Intestines	1		Tuttle Street			Valentine Street	
1083	Pancreas	1	52	Breast	1	22	Rectum	1
1085	Stomach	1				32	Neck	1
1086	Stomach	1		Tyler Street		33	Stomach	1
	Neck	1	94	Stomach	1	55	Stomach	1
1195	Intestines	1	11	Stomach	1			3
1309	Neck	1					Vancouver Street	3
1419	Oesophagus	1		Tyndale Street				
1422	Oesophagus	1	61	Rectum	1	11	Breast	1
1540	Stomach	1	100	Intestines	1	17	Liver	1
1564 1566	Liver	1						2
1568	Stomach	1			2	V	an Winkle Street	4
1568	General Lip	1		TIA I Comment				
1572	Liver	1		Ufford Street	1727	10	Stomach	1
1012	Liver	T	19	Neck	1	30	Rectum	1
		43				83	Ear	1
		45		Union Avenue				3
			4	Stomach	1		Variation Street	3
	Trenton Street			oronnaen			Vaughan Street	
77	Intestines	1		11 · D I		2		1
119	Stomach	1		Union Park		14	Uterus	1
145	Bladder	1		Breast	1			_
196	Kidney	î	11	Stomach	1		V C .	2
	and they		49	Pancreas	1		Vernon Court	
		4	95	Uterus	1	1	Face	1
			95	Uterus	1		Vernon Place	
			97	Uterus	1			
	Trull Street		111	Intestines	1	11	Liver	1
10	Intestines	1	113	Intestines	1		Vernon Street	
17	Uterus	1	120	Stomach	1	0.6		
					_	86	Prostate	1
		2		Union Com	9	87 175	Stomach	1
			151	Union Street	1	113	Uterus	1
				Breast Intestines	1			3
7	uckerman Street		24	intestines	1		Victory Road	3
14	Skin	1			2	0.2		2
					4	83	Stomach	1

By Streets and Houses-Continued

	Village Road			Walden Street		77	Breast	1
20		1	28		1	99	Breast	î
31	Liver	î	37		1		201 0 0 0 0	_
33	Pancreas	î	53		1			4
77	Uterus	1	33	Intestines	1		Waltham Street	7
80	Stomach	1						
		1		W2 11 / C	3	75	Uterus	1
88	Lungs	1		Waldorf Street		83	Lungs	1
88	Liver	1	7	Liver	1			
								2
		7		Wales Street			Ward Street	
	Vine Street		15	Prostate	1	2	Pancreas	1
22	Stomach	1	42		1	10	Liver	î
38	Stomach	1	85		î	176	Liver	î
00		_	.00	otomacii	1	110	Liver	1
		2			3			3
	Vinson Street	-		Walker Street	5		Warland Place	3
114								
116	Bones	1.	18	Rectum	1	1	Uterus	1
			25	Liver	1		IF2 (3	
	Vinton Street		75	Larynx	1		Warner Street	22.22
0						7	Stomach	1
9	Stomach	1			3	46	Breast	1
25	Intestines	1		Walk Hill Stree				
38	Bladder	1	55	Stomach	1			2
					1		Warren Avenue	
		3	55	Breast	1	8	Larynx	1
	Virginia Street		71	Intestines	L	37	Oesophagus	î
10	Stomach	1				51	Liver	1
10	Gronner				3	57	Tongue	1
	200 C			Wall Street				1
	Wabon Street		5	Skin	1	153	Tongue	1
1	Face	1				183	Bladder	1
14	Bone	1		Wallace Street		185	Uterus	1
15	Liver	1	1	Bone	1			_
33	Mouth	î	4		î			7
00	mourn	1	7	Vagina	î		Warren Square	
		4		, agina	1	2	Bladder	1
	Wachusett Street	.1			3	11	Rectum	1
								_
75	Stomach	1	14	allingsford Roa	<i>id</i>			2
91	Skin	1	92	Intestines	1		Warren Street	-
161	Breast	1						
				Walnut Avenue		80	Stomach	1
		3	6	Liver	1	93	Stomach	1
H	Vainwright Street		67	Uterus	1	100	Bone	1
	Lungs	1			1	101	Breast	1
20	L'ange	1	76	Stomach	1	107	Intestines	1
			80	Stomach	1	149	Kidneys	1
	Wakullah Street		115	Uterus	1	319	Liver	1
15	Breast	1	165	Bone	1	340	Stomach	1
26	Stomach	î	233	Intestines	1	343	Intestines	1
20	oronnaen		291	Jaw	1	387	Intestines	1
		2	409	Stomach	1	393	Bones	î
	Waldesh Sum	4	431	Skin	1	433	Stomach	1
	Waldeck Street							1
35	Bones	1			10	548	Stomach	1
				Walter Street	11 072 801	637	Stomach	1
	Waldemar Street		12.2		100		Neck	1
			45	Jaw	1			10
52	Larynx	1	49	Pancreas	1			15

184

	Warren Street		1020	Breast	1		Waterford Street	
	(Charleston)		1058	Intestines	1	1	Uterus	1
00		1	1107	Stomach	1			
88	Uterus	1	1130	Lungs	1		Waumbeck Street	
I	Varrenton Street		1130	Lungs	1			1
		1	1173	Rectum	1		Stomach	1
	Stomach	1	1207	Oesophagus	1	111	Liver	1
35	Bladder	1	1245	Stomach	1			
64	Rectum	1	1254	Rectum	1			2
82	Rectum	1	1290	Liver	1		Waverly Street	
111	Ovary	1	1300	Uterus	1	16	Bladder	1
			1318	Pancreas	1	37	Breast	1
		5	1413	Intestines	í.	37	Breast	1
	Warwich Street		1466	Prostate	î	64	Stomach	1
16	Stomach	1	1513	Prostate	î	73	Breast	1
26	Uterus	1	1522	Neck	î	81	Breast	1
55	Stomach	1	1522	Stomach	î	374	Intestines	1
			1595	Pancreas	î			
		3	1634	Intestines	î			7
1	Washburn Street		1658	Intestines	î		Wanterd Street	
	Bones	1	1672	Uterus	1	0.02	Waxford Street	
30	Dones	1	1697		1	48	Stomach	1
				Stomach	1			
I.	Vashington Street		1866	Rectum	1		Way Place	
15	Intestines	1	1866	Breast	1	3	Ovary	1
34	Stomach	ĩ	1942	Rectum	1	0	Ovary	1
39	Lungs	1	2161	Breast	1			
48	Stomach	ĩ	2396	Stomach	1		Wayland Street	
93	Breast	î	2436	Breast	1	69	Stomach	1
96	Mouth	î	2542	Intestines	1	84	Ovary	ĩ
105	Lung	î	2619	Prostate	1	98	Intestines	1
139	General	î	2654	Throat	1			
143	Stomach	î	2783	Uterus	1			3
150	Lungs	î	2784	Breast	1		Wayne Street	~
174	Stomach	î	2792	Stomach	1	5	Breast	1
211	Uterus	i	2893	Liver	1	5	breast	T
257	Uterus	1	2947	Bones	1		12.010 0.01	
267	Uterus	1	2952	Tongue	1		Webster Street	
276	Intestines	1	2985	Tongue	1	30	Liver	1
		1	3123	Uterus	1	100	Oesophagus	1
283	Stomach	1	3148	Rectum	1 .	205	Bones	1
285	General	1	3189	Oesophagus	1	215	Stomach	1
309	Liver	1	3298	Larynx	1	235	Breast	1
345	Liver	1	3347	Breast	1	263	Liver	1
372	Liver	1	3532	Liver	1			
414	Breast	1	3577	Uterus	1			6
419	Liver	1	2585	Stomach	1		Weld Avenue	<u> </u>
437	Neck	1	3903	Uterus	1	13	Lungs	1
493	Breast	1	3920	Pharynx	1		And Bo	÷.
572	Rectum	1	3981	Breast	1			
541	Stomach	1	4294	Intestines	1		Weld Park	
571	Stomach	1	4313	Uterus	1	23	Intestines	1
589	Stomach	1	4313	Liver	1			
668	Pharynx	1	4325	Oesophagus	1		Wald Start	
716	Bladder	1	1020	SecolumBas		20023	Weld Street	332
774	Intestines	1			87	32	Stomach	1
868	General	1		IF		555	Prostate	1
943	Breast	1		Water Street				
943	Intestines	1	34	Throat	I			2

By Streets and Houses-Continued

 $1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 6$

 $1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$

Weld Hill Street	t.	West Brookline Stre	Jonunu	
24 Nose	1		eet	West Newton Street
39 Breast	1	61 Stomach	1	72 Stomach
	1	61 General	1	76 Bones
	1	103 Breast	1	133 Intestines
67 General	1	128 Stomach	1	141 Bladder
		130 Tongue	1	153 Intestines
	4	165 Jaw	î	238 Uterus
Welles Avenue		165 Lungs	î	250 Uterus
74 Stomach	1	166 Intestines	1	
. r otomach	1	169 Bone	1	TT D I G
Wellesley Park			1	West Park Street
5 Uterus		169 Kidneys	1	567 Prostate
	1			
37 Rectum	1	IV C	10	W CLL C
		W. Canton Street		W. Selden Street
	2	33 Stomach	1	138 Prostate
Wellington Road		145 General	î	159 Oesophagus
7 Rectum	1	146 Bladder	î	206 Stomach
19 Breast	1	155 Breast	1	100 Stomach
1> Dicast	1	168 Bladder	1	
			1	
W. U	2		1	W. Springfield Street
Wellington Street		182 Uterus	1	
2a Uterus	1		-	97 Gall bladder
8 Uterus	1		7	97 Stomach
18a Pancreas	1	W. Cedar Street		99 Bladder
23 Intestines	ĩ	88 Stomach	1	133 Liver
23 Tongue	î		*	159 Intestines
23 Larynx	1	W. Concord Street		165 Liver
24 Stomach	1	84 Neck	1	200 Liver
29 Breast	1	102 Intestines	î	208 Stomach
29 breast	1	121 Breast	1	219 Breast
		121 Dicast 125 Rectum	1	ary prease
	8		1	
Wellington Hill Stre	et	177 Intestines	1	
110 Tongue	1	149 Intestines	1	W. Tremlett Street
130 Uterus	ĩ			27 Stomach
100 010145	-		6	=· oronneen
	2	W. Cottage Street		W Walnut Com
Wendall Street	4	69 Stomach	1	W. Walnut Street
		70 Intestines	î	40 Stomach
11 Intestines	1	to intestines	1	41 Stomach
			0	
Wendover Street		IV D. H Start	2	
15 Breast	1	W. Dedham Street		Westerly Street
19 Intestines	1	14 Rectum	1	Westerly Street
35 Rectum	î	17 Intestines	1	9 Stomach
55 Rectum	1	17 Bones	1	
	3	55 Intestines	1	Weston Street
IV L C	3	95 Peritoneum	î	
Wenham Street		50 Territoneum		41 Stomach
53 Breast	1		5	
		W Faula Street	3	Western Avenue
Wensley Street		W. Eagle Street		
59 Oesophagus	1	34 Appendix	1	198 Neck
		62 Rectum	1	276 Intestines
Westerley Street		66 Intestines	1	484 Prostate
3 Uterus	1			
o otorus			3	
West Broadway		Westminster Terrace		Westfield Street
29 Kidneys	1		1	
2) Kluncys	T	9 Stomach	1	5 Prostate

By Streets and Houses-Continued

Whitemore Terrace

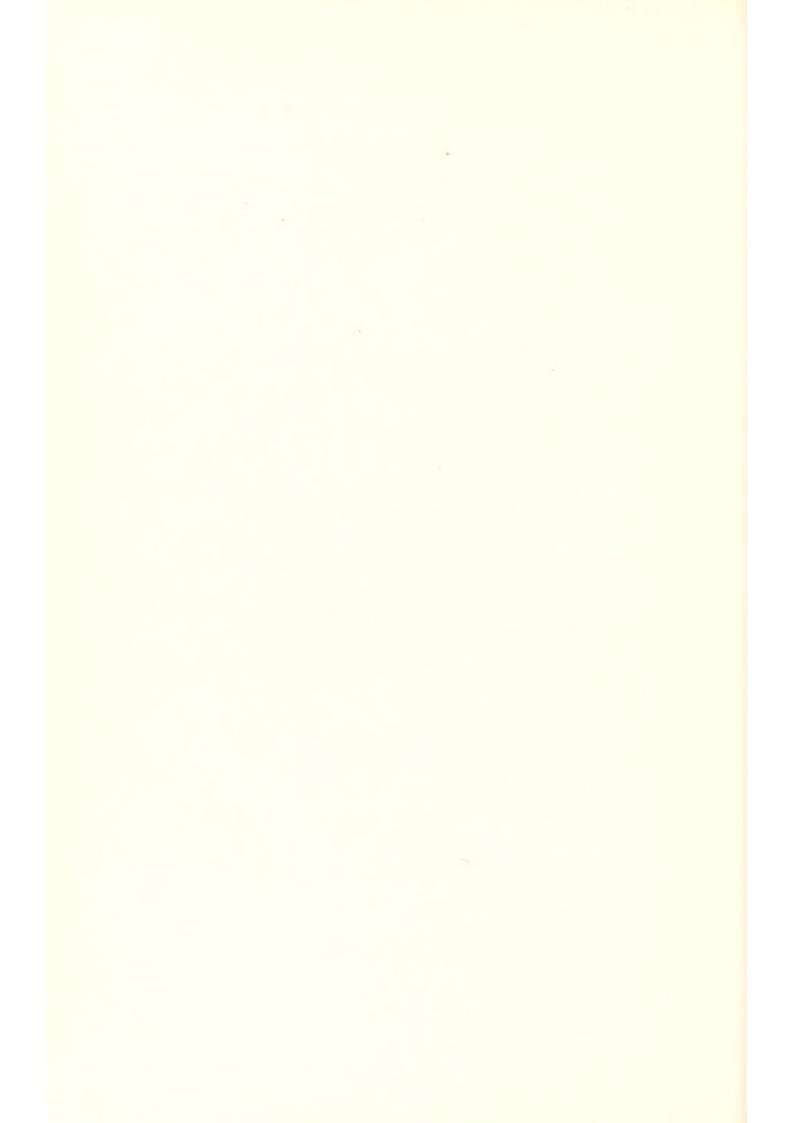
1	Westland Avenue	
14	Jaw	1
14	Lungs	1
24		1
52		1
60	Uterus	1
68		1
91	Lungs	1
r	Vestminster Street	7
6	Uterus	1
14	Stomach Intestines	1
53		i
90	Breast	î
92	Stomach	î
	Cronnen	
		6
	Westview Street	
8	Stomach	1
	Westville Street	
18	Bladder	. 1
20		1
114 148		$1 \\ 1$
208		1
208	Stomach	î
253		î
	T B	
		7
	Weyanoke Street	
5	Rectum	1
	Wharf Street	
21		1
21	Dieast	1
B	heatland Avenue	
87	Bladder	1
101	Bladder	1
115	Uterus	1
	WI I. Circuit	3
-	Wheeler Street	
29	Stomach	1
	Whitley Terrace	
16	Stomach	1
	White Street	
25		1
33		1
42	Stomach	î
81	Ovary	1
	1. 1999 (1999) - 1	
		4

15	Liver	1
	Whitfield Street	
146		1
	Whiting Street	
24	Stomach	1
41	Pancreas	1
		2
	Whitman Street	4
4	Lungs	1
17	Breast	1
17	Stomach	1
		3
	Whitney Street	
4	Stomach	1
8	Stomach	1
		2
W	hittemore Terrace	_
	Uterus	1
15	Throat	1
		2
	Whittier Street	
6		1
19 33		1
38		1
		-
	Whittier Place	4
3		1
	igglesworth Street	
7	Kidneys	1
12	Stomach	1
27	Breast	î
		-
		3
	Wilcock Street	
51	Breast	1
	Wilcox Road	
15	Brain	1
	Wildwood Street	
37	Breast	1
	Willard Street	
14	Stomach	1
	William Street	
26	Vulva	1

	Williams Street	
15	Williams Street	
15	Pancreas	1
$\frac{19}{24}$	Lungs Stomach	1
32	Uterus	1
32	Stomach	î
55	Stomach	1
59	Bladder	1
		7
	Willow Court	"
26	Prostate	1
,	W: 1 . C	
	Winchester Street	
99	Testes	1
	Windom Street	
30	Rectum	1
	Windsor Street	
37	Stomach	1
65	Stomach	i
00	Diomach	_
		2
	Winfield Street	
14	Kidneys	1
	Winship Street	
24	Intestines	1
	Winslow Street	
12	Jaw	1
34	Stomach	1
		-
		2
	Winter Street	
46	Intestines	1
	Winthrop Street	
19	Stomach	1
20	Stomach	1
20	Bladder	1
24	Breast	1
32	Liver	1
32 32	Breast Breast	1
110	Stomach	1
136	Intestines	1
137	Throat	i
148	Liver	î
173	Intestines	1
		12
	Wise Street	
10	Larynx	1

	Withington Street				continueu			
46		1	-	Worcester Square	e		York Street	
10	intestities	1	5	No. I CHILLE	1	28	General	1
	Wolcott Street		6	Jaw	1			
22							Zeigler Street	
44	Intestines	1			2	84		100
	W			Worcester Street			Breast	1
	Woodbine Street		35			93	Bone	1
33	Stomach	1	39		1			-
			42		1			2
	Woodcliffe Street		42		1		Second Street	
30	General	1	52		1	155		
34	Stomach	1	57		1	291	Ocsophagus Liver	1
46	Breast	1	01	Stomach	1	559	Prostate	1
51	Uterus	1			-	579	Face	1
102	Lungs	1		20 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -	6	656	Breast	1
			I	Vordsworth Stree	et.	030	Dieast	1
		5	9	Bones	1			5
	Woodford Street		15	Stomach	î			5
7	Bones	1	31	Stomach	î		Third Street	
30	Brain	î	50	Liver	î	11	Intestines	1
63	Intestines	î	51	Stomach	î	îî	Stomach	1
	inconnos	1	72	Uterus	î	193	Liver	1
		3				207	Intestines	1
	Woodlawn Street	0			6	207	Uterus	1
31	General		п	7		296	Intestines	1
34		1		orthington Stree	t	515	Oesophagus	1
	Bones	1	13	Uterus	1	590	Larynx	1
40	Uterus	1	13	Peritoneum	1		Breast	1
65	Uterus	1	16	Breast	1		Liver	1
		_	32	Breast	1	792	Others	1
1	Was James A	4	45	Intestines	1	829	Uterus	1
	Woodrow Avenue					027	otorus	1
7	Liver	1			5			12
112	Oesophagus	1		Wrentham Street				14
198	Liver	1	18	Liver			Fourth Street	
			31	Rectum	1	123	Lip	1
		3	36	Liver	1	314	Pleura	î
	Woodville Street		59	Stomach	1	319	Stomach	î
6	Stomach	1		Uterus	1	377	Stomach	î
37	Tongue	1	120	Oterus	1	403	Uterus	î
					5	416	Uterus	
		2		W/ C.	5	779	Nose	$\frac{1}{1}$
Wo	odward Park Stree	t		Wyman Street		853	General	1
5	Uterus	1	24	Stomach	1			_
		÷	48	Tongue	1			8
I	Voodward Street		60	Lungs	1		Fourth Avenue	
25	Liver	1	80	Liver	1	83	Intestines	1
26	Jaw	i					inconneg	1
50	Neck	î			4			
00		-		Wyoming Street			Fifth Street	
		3	30	Bladder	1	29	Oesophagus	1
	Woolson Street	0	78	Oesophagus	1	139	Liver	1
	Uterus	1		Tungua		223	Stomach	1
43	oterus	1			2	246	Neck	1
1	Worcester Place			V O	0.50		Breast	1
				Yeoman Street			Oesophagus	1
4	Tongue	1	48	Stomach	1		Stomach	1

Fifth St	reet—Continued	71) Tongue	1	267	Bone	1
	Breast	1 73	4 Stomach	1	281	Oesophagus	1
	Iterus	1			314	Breast	1
	tomach	1		8	350	Uterus	1
	tomach	1	Seventh Street		352	Breast	1
		1 1-			552	Pancreas	1
866 T	estes	1 17		1	587	Intestines	1
		- 21		1	594	Breast	1
		12 46		1	734	Tongue	î
		50		1	101	Tongac	
		52	2 Breast	1			10
	Sixth Street	63	7 Intestines	1			10
151 N	leck	1 66	7 Stomach	1		Ninth Street	
	tomach	1 71	9 Stomach	1	164	Throat	1
	arynx	î			224	Stomach	1
	Bone	î		8	274	Tongue	î
	Breast	î	Eighth Street			ronguo	_
	Stomach	1 25		1			3



SOME CANCER PROBLEMS OF TODAY

SOME CANCER PROBLEMS OF TODAY

(An address delivered before the Philadelphia Medical Society, Philadelphia, Pa., November 5, 1925, and at a sectional meeting of the College of Surgeons, New Orleans, January 26, 1926.)

INFINITE is the realm of tumor science. Infinite is the scope and complexity of every problem that concerns the diagnosis, the treatment, the cure and the control of every form of affection due to cell-proliferation and its deathly effects upon the human organism. If there is any one thing above all others that concerns the practicing physician, the surgeon and the research worker, it is the better organization of the existing information, the facts and the principles of every aspect of tumor science. Thus far but a mere beginning has been made, and almost any one who essays upon the subject must be appalled by the magnitude of the superhuman task of bringing order out of the existing state of chaos and confusion.

What is fact and what is fiction? What is truth and what is error? What is useful and what is useless?—are all questions which arise at practically every stage of an inquiry into any phase of the subject of cancer research. Yet it is a question of the very first importance to realize clearly the necessity for some plan of orderly inquiry into the more essential facts of the whole matter. One must generalize before one can hope to successfully specialize, and this applies to both treatment and research.

We have recently heard much of the discovery of a *cancer "cause"* and far-reaching suggestions have been advanced that the problem of cancer control has at last been solved. But there are the most convincing reasons for holding that the "wish is father to the thought." In course of time we shall know about the practical value of the discoveries by Gye and Barnard, but in their present form they seem barren of any really useful results as regards treatment or, what is still more important, as regards the prevention and control of the many types and forms of malignant disease. In the words of an editorial in the London *Times*, taking much the same view, "these facts must be stated emphatically lest false hopes be raised or false conclusions be drawn." Even more emphatic is the opinion of the editor of the *Journal of the American Medical Association*, who observes:

"The critical reader of the reports in the *Lancet* obtains the impression that an intricate hypothesis has been developed on a small number of facts, and that if on reinvestigation by others new facts should be discovered, the hypothesis will collapse. In view of the weighty and abundant evidence that the production of cancer does not depend on or require a specific cancer germ, and that some forms of malignant growths can scarcely possibly be produced by infection (e. g., complex malignant teratoid neoplasms arising in the fetus in utero), it will require much more proof and repeated corroboration of these observations before it will be demonstrated that all cancer is caused by a 'cancer germ,' either with or without some chemical accessory agent."

My own cancer investigations have been chiefly concerned with the *statistical aspects* of the disease collectively considered, but on a worldwide scale. The outstanding result of my earlier studies was the unquestionable evidence of a continuous increase in the cancer death rate for most of the civilized countries for which useful data could be secured for a period of years. This conclusion was at first strongly opposed by those who questioned the accuracy of the statistics, the accuracy of the diagnosis in individual cases, the effects of age changes in the population, and of changes in the methods of death classification. I need hardly say that I had fully considered each and all of these difficulties, which more or less concern every inquiry into human mortality from particular causes of death. But granting the validity of the objections, they could not possibly assume major importance, but impair the conclusions only as a matter of degree varying with different sections of the world and special conditions affecting particular populations.

The question of cancer increase has recently been reinvestigated by Dr. J. W. Schereschewsky, summarized in the statement that—

1. "There has been a pronounced increase in observed death rates from cancer in persons 40 years and over in that part of the United States known as the ten original registration states.

2. "Part of this increase, about 30 per cent., is due to greater precision and accuracy in the filling out of death returns.

3. "The remainder, however, is an actual increase in the mortality resulting in a death rate between 25 and 30 per cent. higher than it was twenty years ago. (See *Journal American Medical Association*, October 17, 1925.)

According to the *Illinois Health News* of recent date, during 1924 cancer was the second most important cause of death in that state. In 1902 cancer was the cause of 2,542 deaths in Illinois, while during 1924 the number of deaths was 6,960, the cancer rate having increased from 51 to 101 per 100,000 of population.

In my address on the "Menace of Cancer" I gave the returns for the registration area from 1900 to 1910, showing an increase in the observed rate of mortality from 63.0 to 74.3 per 100,000 of population. Since that time I have had frequent occasion to point out that the rate has continued to increase, or to be specific, from 74.4 in 1911 to 81.4 in 1915 and 83.4 in 1920. During 1921 the rate was 86.0, while during 1922 it was 86.8. At the present time the rate is probably not less than 90 per 100,000 and possibly more.

We are thus confronted by the appalling fact that while the mortality from nearly every other important disease has been decreasing during the last twenty years, the cancer death rate is rapidly increasing. Let me make this point somewhat clearer by including some additional data for a few other causes of death suitable for the purpose. What follows applies only to the United States registration area.

Between 1900-1922 pulmonary tuberculosis declined from 182 per 100,000 to 86, typhoid fever declined from 36 to 7.5, pneumonia and influenza combined declined from 182 to 88, nephritis both acute and chronic declined from 89 to 88, cirrhosis of the liver declined from 12.9 to 7.5. Most of these results are attributable to the effects of the modern public health movement, and its coördinated health promoting activities. Conversely, however, diseases of the heart have increased from 132 to 166, but a part of this increase is the result of changes in death classification, Cerebral hemorrhage has increased from 76 to 88. There has also been an increase in the mortality from appendicitis from 9.7 to 14.2. In most cases the indicated decrease or increase has continued during the last two or three years. In no case, however, do these mortality changes for the worse approach in actual magnitude and importance the observed increase in the mortality from cancer.

I will not enter upon a discussion of the precise definition of cancer nor the best form of classification of different types of malignant and benign tumor affections. Much remains to be done in this direction that falls within the province of the pathologist, the clinician and the research worker. One important distinction should be made, however, in death classification, which should add materially to a better understanding of the situation. I have reference to the required distinction between carcinomas and sarcomas, which at the present time are combined under the term "cancer," largely as a matter of statistical convenience. We do not know at the present time what the actual mortality from sarcoma is in this country, although we are sufficiently well informed that it does not fall below 5 and does not exceed 10 per cent. in particular sections of the country. Those who wish to thoroughly understand the make-up of the present classification for official purposes should consult the titles and sub-divisions of title of the international list relating to cancer and other malignant tumors as given in the special report on the "Mortality from Cancer" published by the Division of Vital Statistics and the United States Census for the year 1914, Washington, 1916.

The first fundamental fact of the cancer situation is the varying degrees of cancerous affections in their relation to sex. In 1920 the adjusted male cancer death rate for the registration area of 1900 was 72.3 per 100.000 against an adjusted female rate of 101.6. The conditions are more pronounced at particular age periods as shown in the following table.

Table 1

CANCER MORTALITY BY SEX UNITED STATES 1920 REGISTRATION STATES OF 1910

(Rates per 100,000)

Age	Males	Females
45-54	120.8	230.9
55-64	338.4	451.6
65-74	641.4	730.5
75 and over	915.9	1020.8

It is thus shown that the female rate is decidedly higher at all the important periods of adult life than is the corresponding cancer mortality of males. This statement, however, does not justify the assumption that women are more liable to all forms of cancer, for that is not the case, as will later be shown, the excess in the female mortality arises chiefly out of the special liability of women to malignant affections of the generative organs and the breast. From other forms of cancer women, with some important exceptions, suffer decidedly less than men.

The second most important fact is the varying liability to cancer age or different periods of life. For both sexes combined the mortality rate at ages under 5 is 3.6, at ages 5 to 14 it is 1.6, at ages 15 to 19 it is 3.0, at ages 20 to 24 it is 4.7, per 100,000 of population. At all these younger ages, therefore, the relative death rate is comparatively unimportant, except as an indication that malignant diseases may occur at any time of life, although necessarily only in certain forms, particularly of the sarcomatic type. • At ages 25 to 34 the rate is 15.0, at 35 to 44 it is 63.9, at 45 to 54 it is 173.8, at 55 to 64 it is 394.4, at 65 to 74 it is 687.0, and at 75 and over it is 974.1. Thus the cancer mortality rate does not become of relative significance until the forty-fifth year of age, subsequent to which it rises rapidly to the end of life. This statement requires to be qualified to the extent that there are reasons for believing that after 80 or 85 the rate in proportion to population slightly diminishes.

RACE AND NATIVITY

Next to sex and age, the cancer death rate is affected by *race and nativity*. Broadly speaking, the evidence is apparently quite conclusive that native races not living much in contact with civilized conditions are only rarely affected by malignant diseases. This question has been much in controversy and further research is required to place the conclusions upon a sound and incontrovertible basis. My own investigations among the Indians of South and Central America, the southwest of the United States and other parts of the country including Canada seem to fully support the conclusion that cancer is extremely rare among our native Indian population. It is likewise rare among the native populations of Africa not much in contact with civilization. An illuminating report upon this subject has lately been published by Dr. W. Watkins Pitchford in a contri-

bution to the Medical Journal of South Africa with reference to the "Prevalence of Cancer Among the Native Races of Natal and Zululand during the Four Years 1906-09." Dr. W. Watkins Pitchford points out in this connection that "it has been held that the apparent infrequency of cancer in negroes is mainly explained by imperfect opportunities for observation. This contention is hardly valid in the present instance, since the vigilance of every medical man and every magistrate has been officially requisitioned over the whole period of years. It is almost incredible that any natives who were subjects of such visible, agonizing and slowly destructive diseases as cutaneous, lingual, or mammary cancer would not have sought relief, sooner or later, at the hands of the white man. * * * No satisfactory evidence was obtained that would favor the supposition that close contact with Europeans increased the liability of natives to cancer. It should, however, be remarked that it could be but a very small fraction of the natives, viz., those who are in domestic service, whose diet and manner of life approach to those of the Europeans."

Summarizing the foregoing, Dr. Watkins Pitchford remarks that "bearing in mind the relative infrequency of malignant disease as a whole, it thus appears that negroes in South Africa are affected with sarcoma almost as frequently as with carcinoma, and that they exhibit a special liability to sarcoma of the subcutaneous tissue of the foot."

Previous to the Civil War medical reports from the southern sections of the country indicated a relative infrequency of cancer among the slave population. Cancer of the uterus was often stated to be practically unknown. At the present time the cancer death rate of our negro population closely approaches that of the white population in many sections of the country. For the year 1922, for illustration, the white cancer death rate of Louisiana was 80.7 while that of the colored was 68.7; for Kentucky the white rate was 55.6 and the colored 57.3; for Mississippi the white rate was 58.6 and the colored 53.0; while for North Carolina the white rate was 57.4 and the colored 57.5. Nativity, to the contrary, is a more complicated matter to deal with in view of the inadequacy of our information regarding the population of native birth but of foreign descent. Such evidence as is available seems, however, to prove conclusively that persons born in Ireland and Germany are decidedly more liable to malignant disease than persons native born of native stock. Conversely, the cancer death rate of the population born in Italy is decidedly below the general average. These results conform to the observed mortality in the home countries of the different races considered.

In view of the lower cancer death rate of Italians in this country when compared with natives, I had a table of cancer statistics for Italy prepared from official sources for the period 1887-1923. The table shows a gradual increase in the rate from 42.7 per 100,000 in 1887-89 to 71.4 in 1923, which for Italy is the highest rate on record. Even this rate is still very considerably below the average rate for the United States, which in 1922 was 86.8.

Table 2

CANCER DEATH RATE OF ITALY

Rate per 100,000 Year Rate. Year Rate 1887-89 42.7 1914 68.8 1890-92 42.8 1915 66.7 1893–95 45.2 66.3 1916 1896-98 50.2 67.5 1917 1899-01 52.3 1918 68.4 1902-04 55.0 1919 65.3 1905-07 60.7 1920 68.9 1908-10 64.8 1921 68.6 1911 66.8 1922 69.5 1912 64.7 1923 71.4 1913 1924 66.7

OCCUPATION

Another factor of considerable importance but only in specific instances is occupation. This phase of cancer mortality has not as yet received extended and thoroughly qualified consideration. The classical illustration of chimney sweeps' cancer is, of course, well known. There could be no more conclusive evidence of the causative relation of local irritation to cancer than in the case of chimney sweeps, who are troubled with a cancerous affection of the scrotum, attributed to soot irritation. Other instances are those of workers in aniline dyes, who suffer from peculiar cancerous affections of the bladder. Men employed in the making of artificial briquets suffer from cutaneous cancer of the hands and arms. In England, men employed in cotton mills as mule-spinners suffer also from a peculiar form of cancer of the groin directly attributable to occupational exposure. X-ray workers have frequently experienced disastrous results in consequence of long exposure to X-rays on the hands, developing X-ray dematitis, often ending in death. Seamen are claimed to be more liable to cancer of the skin, and the same statement has been made with reference to farmers much exposed to the sun and possibly irritating effects of strong winds. According to Prof. W. Dubreuilh of Bordeaux, "the accumulative effect of prolonged exposure to the violet and ultra-violet rays in sunlight is responsible for those changes in the skin which are often but erroneously ascribed to senility." He holds that malignancy in such cases is "no accidental supervention, but the final and inevitable stage of the process if it be continued over a long period, even if the stimulas has ceased to be active some time previously." Mere sunlight exposure cannot possibly be an important contributory cause in cancer, for it is not in countries with a large proportion of sunshine that cancer is seemingly most common, but further research in this direction is necessary before definite conclusions can be advanced.

On the extremely interesting subject of mule spinners' cancer a departmental committee of the British home office has just published a report

which includes an analysis of 539 cases of mule spinners' cancer recorded since 1876. The site of the disease was as follows: 450 affections of the scrotum; 31 of the head and neck; 23 of the upper limbs; 11 of the lower limbs; 6 of the groin; 13 of the generative organs, while the remaining five were a multiple affection of different parts of the body. An extended extract from the report with editorial comment appears in the British Medical Journal for April 24, 1926. The conclusions are summarized in the statement that, "we have thus conclusive evidence that certain mineral oils, including such refined mixtures as lubricating oil, are capable of inducing epitheliomatous formations when the subject has long been exposed to their action. Whether these oils are the direct immediate producers of the cancerous growth, or merely the principal factors that prepare the soil for some other and more general cancer-producing agent, is a scientific matter, which we are not called upon to settle. The broad fact is beyond reasonable dispute, namely, that in the absence of exposure to such mineral oils there would be no mule-spinners' cancer." The conclusions are amplified as to whether modification of the present mule machinery in cotton mills in order to prevent the oil from being sprayed on to the clothing of the workers would not be advisable. It would be extremely interesting to find out why this type of cancer has not been met with anywhere else in the world than England. Certainly among the large number of mule spinners in this country it would appear that there is not a single recorded case of this clearly differentiated type of malignant disease. Since the oil is the true cause of the affection and since without it cancers of this type do not occur, it should not be difficult to institute an exact comparison of the lubricating oils thoroughly analyzed as used in this country and in England. It would make a most valuable contribution to the study of cancer causation.

CHANGE OF RESIDENCE

One of the most perplexing aspects of cancer mortality investigations is in *changes in residence* of cancer patients, who in many cases leave the country to seek relief from their affection in the cities where institutional facilities are available. Many cities with excessively high local death rates attribute the excess to the non-resident factor, which it goes without saying in numerous cases must have a direct bearing on the local death rate. It will be possible in the near future to deal with this matter on the basis of an exhaustive investigation in a number of cities of this country made in connection with the San Francisco Cancer Survey. The investigation shows, for illustration, that the previous duration of residence on the part of those who died from cancer in San Francisco had been 33 years in the State of California and 22 years in the City of San Francisco. The proportion probably to be recorded as non-residents, or of those who have lived less than one year in the city, was not sufficient to disturb the general conclusion that the true cancer death rate of that city was unquestionably

excessive. The proportion of non-residents will, of course, vary with the extent to which hospital and other facilities for qualified treatment are available. This would be especially the case in cities like Boston, which in 1922 had a cancer death rate of 132.4 per 100,000; of Baltimore, which had a rate of 112.0; of Chicago, which had a rate of 107.9; of New York, which had a rate of 112.7; of New Orleans, which had a rate of 129.9; and of San Francisco, which had a rate of 142.0. The marked variations in the rates are clearly suggestive of local conditions not explained entirely by the non-resident factor. Memphis, for illustration, draws probably as large a non-resident element to its hospital as New Orleans, yet the cancer death rate of Memphis was only 100.6 while that of New Orleans was 129.9. The cancer death rate of the colored population of Memphis was 73.0 while that of New Orleans was 135.7. Obviously only a critical examination of the entire situation can produce results of definite value.

CANCER OF ORGANS AND PARTS

It has long been my conviction that no material progress will be made towards a practical solution of certain aspects of the cancer problem until the cancer death rate is analyzed as to its component part, or in other words, as to the differential liability of different population elements to different but thoroughly well defined forms of malignant disease. The grouping of cancers under the international classification of causes of death is, on the whole, quite inadequate to the purpose. The grouping at the present time includes: (1) cancer of the buccal cavity; (2) cancer of the stomach and liver; (3) cancer of the intestines, peritoneum and rectum; (4) cancer of the skin; and (5) other forms of cancer, or not specified. For the registration area of the United States for 1922 the cancer death rate for all forms of malignant diseases was 86.8. It was 3.0 for cancer of the buccal cavity, 33.4 for cancer of the stomach and liver, 11.7 for cancer of the peritoneum and rectum, 12.7 for cancer of the female generative organs, 7.8 for cancer of the breast, 2.8 for cancer of the skin, and 15.5 for cancer of other types or unspecified parts. The last named group covers a large number of malignant affections, some of which are of the utmost importance and should be more thoroughly studied in matters of detail.

The variations in local rates of frequency for particular organs and parts are of very considerable practical significance. Thus, for illustration, cancer of the skin in the registration states shows a rate of 2.4 per 100,000 for cities and of 3.2 for rural areas. This would seem to confirm the view that cancer of the skin bears some relation to outdoor or sunlight exposure. Cancer of the breast prevails at the rate of 7.8 in the United States registration area, but at a rate of 11.8 in California, 12.5 in Connecticut and only 3.8 in Florida, while the rate was 4.0 for the white population of Georgia and 5.5 for Louisiana. It was 9.6 for Maine and 13.4 for Massachusetts. Are these variations due to local conditions, differences in

habits, clothing, or mode of life, or are they the result of differences in the age and sex distribution of the population concerned? I shall have occasion to deal with some aspects of this phase of the problem later on, with reference to certain particular cities which I have investigated with special attention to this point.

An important question is the possible relation of *other diseases* to cancer occurrence. Of these for the present purpose I can only consider goitre. Diseases of the thyroid gland in 1922 caused a mortality rate in the registration area of 2.8 per 100,000, of which 2.1 was due to exoph-thalmic goitre and 0.7 to other diseases of the thyroid gland. Considering only the former, it appears that the disease prevails at a rate of 2.7 per 100,000 in the cities of the registration states, and at the rate of 1.4 in rural portions. The rate varies widely according to geographical distribution, being most common in the central west. For illustration, for Michigan the rate was as high as 3.4 per 100,000, while for Wisconsin the rate was 2.2 and for the State of Washington 2.8. There is apparently no correlation between excessive mortality rates from exophthalmic goitre and cancer, but the relative infrequency of the disease may preclude an accurate comparison on the basis of statistics not subjected to critical analysis.

CANCER AND GOITRE

Dr. Saleeby has called attention to the results of the investigations of medical experts connected with the Swiss Goitre Commission, which apparently indicates a well established relation between the distribution of goitre and cancer in that country. He also directs attention to a recent report by Dr. Percy Stocks, of work done under the direction of Prof. Carl Pearson, summarized in part as follows:

"(1) The distributions of goitre in recruits and school children and of cancer mortality in Switzerland show a small positive correlation which is apparently not accounted for by differences in healthiness as measured by the general death rate. (2) This correlation of general cancer mortality with goitre is found to arise from a very definite regional correlation between goitre and cancer of the stomach and oesophagus. (3) The selection rate of cancer of the stomach is generally high in other goitrous regions of Europe and America, and low in areas where goitre is infrequent, and this relation also holds good for sub-divisions of Norway and United States of America. (4) The examination of 1,000 London post-mortem records leads to the conclusion that enlargements and other anomalies of the thyroid gland are considerably more frequent in cancer cases than in non-cancer cases at death, and these anomalies are of the type usually associated with depressed thyroid function. (5) The enlarged or adenomatous thyroid gland is attacked more frequently than the normal gland both by primary and secondary cancer; the great majority of the cases in which a mormal thyroid was secondarily involved were recurrent breast cancers with widespread metastasis. (6) Graves' disease probably affects about 100,000 persons in England and Wales; its prevalence as indicated by

corrected mortality rates is higher in rural than town areas, in coast than in inland areas, and on the west coast than on the east. (7) After correcting all known factors, the mortality from Graves' disease in the counties shows a small negative correlation with cancer mortality; this, as might be expected, is not so evident in the large town. (8) The above findings seem to indicate that defective functioning of the thyroid gland is favorable to the incidence of cancer of the stomach, and possibly of other organs also. (9) This leads to the suggestion that iodine prophylaxis applied after middle age, on the same lines as it is now being successfully applied to young persons in Switzerland for prevention of goitre, or some other form of thyroid administration, might result in diminishing danger incidence. That it is at all likely to seriously influence the growth of cancer once started is not suggested, though retardation might result. (10) It is admitted that some of the above conclusions are open to criticism, and that some of the facts might be explained in other ways, but before rejecting the hypothesis in the face of such evidence as there is, I contend that further research is called for, including if possible a direct experimental test of the results of prolonged iodine or thyroid administration to a cancerous strain of animals."

I have given this extract in full, since it does not admit of abbreviation without serious impairment. It is regrettable that there should be no available statistics regarding the geographical distribution of Graves' disease for this country, but the matter is obviously one well deserving of The conclusion, however, is quite definite that Swiss consideration. investigations clearly establish a correlation of cancer mortality with goitre when special consideration is given to cancer of the stomach and liver. No corresponding investigations have thus far been made in this country. Since the causative factor in goitre is now generally accepted to be iodine deficiency, there may be something in the conclusion that mineral deficiencies such as potassium or calcium or otherwise may lie in part at the root of certain forms of malignant disease. Goitre itself has only of late received extended consideration and much requires vet to be learned. as is emphasized in a brief discussion from a Norwegian source reported in the British Medical Journal of May 23, 1925.

Some astonishing statements regarding the prevalence of goitre among girls and young women in this country were recently made before the American Chemical Society at a Los Angeles meeting, by Dr. J. W. Turentine, of the United States Department of Agriculture, according to whom "as many as one-half of the girls in a belt extending from New York to the Rocky Mountains have the affliction in an incipient form, and that the number of cases, which already must amount to many thousands, is increasing as the population increases." Like cancer, goitre obviously demands much more consideration than it has thus far received, although it is fortunately a very much less fatal form of disease than malignant tumors. It has properly been pointed out in the Nation's Health that "it would seem to be the duty of health authorities in goitre regions to study the various suggested procedures of treatment and take active steps to disseminate information in regard to their value."

NATURAL DURATION OF CANCER

However, the supreme question concerning cancer in its relation to the patient and the physician is the known duration of the disease. No phase has been more neglected as a statistical problem, although, in season and out, the earliest possible treatment has been insisted upon as a condition precedent to successful treatment. Unquestionably in many cases the patient is unaware of the development of the cancerous process until a serious condition has been reached. In many others there are months and often years of needless delay, with almost invariably fatal results to the patient concerned. It is no doubt difficult in many cases to determine with precision the seriousness of precancerous conditions or, for that matter, the actual onset of the disease when it can be diagnosed with reasonable certainty. In a large majority of cases the known duration of the disease clearly indicates unpardonable delay on the part of the patient and often negligence on the part of the attending physician. The principle is universally accepted as laid down by Dr. H. W. S. Wright, that "the chance of a cure in particular cases simply depends on the stage at which the case appears for treatment." Results of different investigations vary more or less, but it is generally assumed that the average known duration of the disease previous to qualified treatment is about two years. In my San Francisco investigation the duration was ascertained to be about eighteen months, or 1.3 years for males and 1.7 years for females. For the white population of New Orleans the corresponding average known duration was 1.4 years for males and 1.5 years for females.

In recognition of the great importance of the time factor, I have thoroughly examined into the known duration of cancer deaths with a due regard to the organs and parts of the body affected. The only fairly adequate discussion of the natural duration of cancer is by W. S. Lazarus Barlow and L. H. Leeming of the Cancer Research Laboratories of the Middlesex Hospital, reported in the *British Medical Journal* for August 16, 1924.

For the present purpose I will limit myself to a few important organs, as revealed by an analysis of the statistics for San Francisco. For 40 cases of cancer of the tongue among males, the average known previous duration was 13.4 months; for 17 cases of cancer of the jaw among males it was 10.3 months. For 288 cases of cancer of the stomach among males it was 15.2 months, while for 134 cases among females it was 15.3 months. For 91 cases of cancer of the liver among males it was 14.8 months, and for 79 cases among females 15.2 months. For 77 cases of cancer of the intestines among males it was 16.2 months, and for 103 cases among females 14.2 months. For 70 cases of cancer of the rectum among males it was 17.3 months, while for 44 cases of females it was 25.4 months. For 27 cases of

cancer of the ovaries it was 11.7 months, while for 206 cases of cancer of the uterus it was 23.5 months. This perhaps is the most suggestive result of my investigation, clearly revealing the greater hesitation on the part of women to seek early treatment even in such a readily accessible organ as the breast. Like considerations apply to cancer of the prostate, in which the previous known duration of the disease was 27.4 months. For 37 cases of cancer of the bladder among males it was 25.1 months. For 30 cases of cancer of the pancreas among males it was 8.7 months, and for 21 cases among females 10.5 months.

These illustrations will serve the present purpose of directing attention to the lamentable time lapse which is permitted to intervene previous to proper treatment. Of course, it may be argued that death certificates in this respect are not conclusive, and to a certain extent that is true. The average known duration of the disease as just given covers a period from the onset to death. But it is a safe assumption that in most of the fatal cases the duration of treatment was of comparatively short duration. More definite information on this point will be forthcoming in due course of time, when more than a thousand questionnaires concerned with living cancer patients have been examined. I may quote in this connection a statement by Dr. Wright that "the average duration of all the cases considered by me was two and one-half years before operation." Other estimates, particularly those of the Pennsylvania Cancer Commission, yield somewhat different results. At best, of course, the onset of the disease is a matter of conjecture and in probably no case can the facts be precisely established, but I feel that in a general way it is a safe assumption that the patient has suffered at least 18 months from the disease before qualified treatment was applied. Quite possibly the duration is even longer than that.

As a further illustration of the trustworthiness of the foregoing data I give some corresponding results for the white population of New Orleans. For 18 cases of cancer of the tongue in males the average previous known duration was 18.6 months. For 60 cases of cancer of the stomach in males it was 16.6 months, but in 43 cases of females the duration was only 11.5 months. In 20 cases of cancer of the liver the average known duration was 11.8 months, and in 25 cases of females 15.9 months. In 83 cases of cancer of the uterus the duration was 24.3 months, and in 49 cases of cancer of the female breast it was 26.5 months. In 16 cases of cancer of the prostate it was 25.2 months. In a general way, therefore, the New Orleans results confirm those of San Francisco. Since all the details of this investigation are given in their entirety in the second preliminary report on the San Francisco Cancer Survey, I will not further enlarge upon this aspect of the present discussion, but I may emphasize the wide range in the known duration for particular organs and parts, which, for illustration, for cancer of the stomach in San Francisco, for males varied from one month in seven cases to 132 months in one case. For females the duration varied from one month in three cases to 60 months in two cases. For cancer of the female breast the duration varied from one month in one case to 156 months in another case. Most of the deaths from cancer of the female breast had a known previous duration of twenty-four years. The variation in cancer of the uterus was from one month in three cases to 180 months in one case. Here also most of the deaths occurred with a previous known duration of twenty-four months.

Granting that these results have but a limited intrinsic degree of trustworthiness, they are nevertheless an interesting and practically useful contribution to cancer knowledge.

SOME ESSENTIALS OF THE CANCER PROBLEM

It would be a perfectly hopeless effort on my part to cover more than a few essentials of the cancer problem of today. What I have said represents many years of thoughtful consideration and an analysis of possibly the largest amount of cancer mortality material available to any one. I have been concerned primarily with the statistical facts of the cancer situation. Questions of treatment and after-results lie largely outside of the plan and scope of my investigations. No effort has been made to review many recent contributions, some of which are well deserving of extended consideration. Foremost among these I would place a work just published on "Tumors and Cancers," by Hastings Gilford, the author of a most important treatise on "Post-Natal Growth and Development." No one is better qualified than Dr. Gilford to consider questions of normal and premature development and their bearing upon matters concerned with the origin of cancer. In touching upon cure and prevention he emphasizes the removal of the material cause in its relation to the cure of cancer: the removal of the formal cause, or the circumvention of cancer; and third, the removal of the efficient cause, or the prevention of cancer. All of these are fully dealt with, but for the present I cannot enlarge upon the numerous questions raised. I will quote only the following among the general conclusions, that "cancer as a menace to society is of recent growth and must, therefore, arise out of new circumstances. We ask ourselves what are the circumstances in our present civilization which are novel and of a kind which might rise to such a degeneration as cancer? In other words, what great biological fault are we committing, that our forefathers did not commit, that we should be scourged with this horrible form of punishment? What have we done that is so heinous that only the prolonged torture and death of one in eight of those who attain middle-age is an adequate penalty for the crime?" Limitations of time do not permit of more than a reference to a single phase of the reply. The author remarks that "First, it has been shown that the increase in the liability to cancer does not affect all organs alike but is almost restricted to two groups, namely, the alimentary group and the reproductive group. These are just the two sets of organs which are most affected by the circumstances of modern civilization. Sir

Arthur Keith, in particular, has many times drawn attention to the rapid changes taking place in our jaws and other digestive apparatus owing to recent alterations in our habits with regard to food, and all these changes are of a regressive or degenerative character. In no respect do they indicate an advance, but always a retreat."

Dr. Hastings Gilford, therefore, fully supports what I frequently had occasion to point out, and that is the close relation which cancer bears to our modern civilization and the obvious changes in our dietary habits. Those who wish to follow this phase of the question more thoroughly should consult the wholly admirable presentation of an immense range of facts by Mr. J. Ellis Barker, with an introduction by Sir Arbuthnot Lane. Those who are particularly concerned with the cancer education of the public should consult a recent treatise by Dr. Charles P. Childe. Finally, some interesting aspects of the question are dealt with in a recent treatise on "New Cancer Facts," by David Masters, published in London, with an introduction by Sir James Cantlie. I wish to say, however, that I am not at all in agreement with the conclusion advanced in this work, that "cancer is a parasitical disease," while for the time being I am extremely skeptical of the second conclusion, that "the control of cancer is within our reach." A very illuminating but very brief discussion of "The Conquest of Cancer," by Dr. H. W. S. Wright, has recently been published by the Dutton Company of New York. There are certain misstatements in this work, which however do not impair its great value to the public.

While I am not qualified to deal with questions of treatment, I have not failed to give attention at least to the possibility of early diagnosis. Conversations with Dr. J. A. Shaw MacKenzie and others have fully convinced me of the great practical value of blood examinations, and I cannot do better than draw attention to a recent and extremely valuable discussion by this author on "Blood and Tissue Changes in Cancer with Reference to Diagnosis and Treatment," published in the *Journal of Tropical Medicine* for August 15, 1925. It is difficult to understand why the epoch-making work of Dr. Shaw MacKenzie has not long since attracted wider attention leading to the practical application of some of his theories. These are summed up in the statement that "there is a difference between normal and cancerous blood." If that is granted, an immense step in advance has been made with regard to the earlier diagnosis of cancer or the condition of the body affected by a cancerous growth long before such growths become obvious to the patient and the physician.

Thus progress in *treatment* is being made in practically every direction in which further advances are most urgently needed. Yet we are in need of more facts to bring home to the public the all important necessity of the earliest possible treatment. Dr. Wright has summed up the whole situation in a phrase which should become standardized in cancer education, that "it behooves us not to 'wait and see' whether we shall get it or not, but to 'look and see' that we have not got it." What the public is most in need of is encouraging and convincing evidence, revealed by postoperative results, that modern cancer treatment is effective in a large and probably an increasing number of cases. The evidence to this effect which is at present available in a useful form is much too limited. No one has better summarized the situation in this respect than Childe, but his conclusions in most cases are based on too small a number of patients. Thus, for cancer of the breast, he refers to 34 cases who show the gratifying result that 50 per cent, were alive and well and without recurrence at varying periods from 6 to 13 years. He quotes another record of 100 consecutive cases, but of these only 17 were alive and well five years or more after operation. He quotes a third record of 46 cases, of whom 13 were alive and well and without recurrence five years or more after operation. He refers to cancer of the lip, giving a record of 537 cases treated at the Mayo Clinic, of whom 21 were inoperable, leaving 516, of whom 306 were subsequently traced. Of this number 40 per cent. had died, 59 per cent. were living, and 93 per cent. of the living had been free from recurrence for an average period of 7.8 years. Hence he estimates that the probable good results of a cure are about 72 per cent. He quotes with reference to cancer of the tongue, data furnished by Dr. Bloodgood. Of the early cases 62 were alive and well and without any sign of recurrence five years or more after removal. Of the 49 hopeless and inoperable cases, all had died. In cancer of the skin he quotes the record of 141 cases that have been traced, of whom 48 per cent, were alive, and of these 82 per cent. reported good results and had been free from the disease for an average of seven years. Unhappily at the present time it is estimated that from 40 to 50 per cent, of the cases which reach the surgeon are in a condition where the outlook is practically hopeless. Hence the inoperative necessity of a more effective form of public education, including a large proportion of the medical profession as regards the importance of the earliest possible diagnosis and the earliest possible qualified treatment.

CANCER AND RADIUM

In the light of much personal investigation and a careful consideration of trustworthy records, I am convinced that one-third of the present-day mortality from cancer could be prevented if the suggestion regarding the earliest possible diagnosis and the earliest possible treatment suggestions were carried into effect. As I understand the situation, the consensus of qualified opinion today has little faith in medical treatment for cancer and favors surgical treatment amplified in an increasing number of cases by radium, X-ray or cauterization. My investigations into the effects of radium treatment are far from complete, but the evidence is increasing that such treatment under given conditions on the part of a thoroughly qualified operator may prove decidedly beneficial. Surgery plus radium, therefore, seems to offer at the present time the best outlook for a successful cure, but radium, as well as X-ray, is a power the true nature and extent of which are as yet imperfectly understood. The right dosage must be applied and can only be applied by a thoroughly trained radiologist in possession of a sufficient quantity of radium required for the purpose. An insufficient quantity of radium or X-ray may do more harm than good.

Thus, for illustration, it has been said that "it has been demonstrated that the increased duration of life following radium treatment in cases of cancer of the prostate is in direct proportion to the amount of radiation applied." With reference to cancer of the bladder it has been said that "while benign and malignant papilloma and the early papillary carcinomas disappear under the influence of radium, the infiltrating types have proven very resistant to this agent. The recurrence, however, responds to radiation in most instances, although in some it does not. Radium has certainly proved to be a valuable aid in the treatment of bladder tumors." With regard to cancer of the breast, Dr. Pfaler is on record as having said that "radium is a most useful agent in the treatment of palpable recurrent or metastatic nodules from carcinoma of the breast." At the recent International Congress of Radiology, Eintz of Erlangen urged all experienced X-ray specialists to publish their statistics, giving his own experience, having been to the effect that "in group one of his cases 95 per cent. had been clinically cured, in group two, 68 per cent. and in group three, 18 per cent." On the other hand, Sippel and Jackel, in reviewing the results of eleven years' practice at the Berlin University Clinic, are extremely skeptical, and state "in spite of improvements in technique and apparatus, recent results show no material advances," but their conclusions are based upon a relatively small experience. The investigations by Lazarus-Barlow at the Middlesex Hospital, to the contrary, seem to show that experience in treatment of cancer in irradiation is opening hopeful possibilities, but it is pointed out that "cells vary in radio sensibility," a fact which is often overlooked by those not thoroughly well informed. Without further enlarging upon this question, I may suggest that those who wish to pursue the subject further should consult an interesting discussion of "Some Principles of Treatment in the Radio Therapeutics of Cancer," by Dr. F. H. Johnson, published in the Lancet, September 27, 1924.

According to Voltz, on the "Results of Radium Treatment in Cancer of the Uterine Cervix," by Doderlein, "from 1912 to 1918, 755 patients were treated, of whom 110 were operable cases, with 43.6 per cent. cures; 130 were borderland cases, with 22 per cent. cures; 340 were inoperable, with 6.7 per cent. cures; 169 were hopeless cases, with one cure. Figures for 1918-19 for a total of 272 treated patients are essentially the same. The term "cure" means that five years have elapsed since the time of operation. In his report on cancer therapy from the surgeon's standpoint, Dr. Emil G. Beck of Chicago observes with reference to more than 200 cases that "some have stood a long test, one being 14 years, another 9 years, without a recurrence. We fully realize that a great deal can be accomplished with the Roentgen rays and radium alone without the aid of surgery, and we do not subject every case to surgical operation. But we are trying to make a comparative study as to whether surgery combined with radiotherapy will accomplish more than either of them alone." In my own investigation the subject has not as yet received extended consideration. But efforts are under way to tabulate certain results obtained at the State Institute for Malignant Diseases, Buffalo, N. Y., where a considerable amount of statistical material is available for the purpose. In my San Francisco investigation, and for other cities, attention is being given to the question of gastric ulcer and its relation to malignant diseases.

According to the *Radium Journal of Paris*, for December, 1925, "among 403 cases treated by Regaud and his co-workers at the Paris Radium Institute, 362 were under observation for from one to six years. Disappearance of all signs of cancer was noted in an average of 26.2 per cent. under the radium treatment. They conclude from their experience that surgical treatment should be applied in adeno-epithelioma of the cervix; in cancer coinciding with infection of the adnexa, and in cases rebellious to radiotherapy. Hysterectomy is preferred for malignant disease confined to the uterus, and in dubious cases. Radium alone is indicated in cancer of the cervix with the parametrium intact. Roentgen ray alone is the method of choice in inoperable cases in which the correct use of radium is not practicable, and also for recurrence after hysterectomy. Association of Roentgen ray with radium."

THE PARASITICAL AND HEREDITARY ASPECTS OF CANCER

I have touched somewhat at random upon a few of the more important problems of cancer without having been able to do justice to any one of them. As the results of my own investigation become available, it is hoped that they may aid materially in broadening the plan and scope of future cancer research, for we must first know the fundamental facts of the present situation with a due regard to the past before we can hope to specialize to real advantage. I think that it no longer admits of a question of doubt that cancer is increasing and at a rate which justifies a statement used by me at the outset of my interest in the problem, that cancer is a menace and a by-product of our modern civilization. I also feel confident that the results of my investigation with particular reference to the time factor of the disease will serve a useful purpose and emphasize concretely to the public and the medical profession the evidence of lamentable delay in a large majority of cancer cases which terminate fatally at the present time. My investigations thus far in any event neither support the theory of cancer being a parasitical affection nor of the hereditary transmission of the disease from parent to offspring. This conclusion, however, does not affect the view that parasites in many cases may induce cancer as factors of

irritation. Likewise the conclusion does not affect the view that parents may transmit their dietary or other habits to their children as predisposing causes of a cancerous condition. While my references to the rarity of cancer in active races are only fragmentary, I speak from a rather extended familiarity with the facts when I repeat what I have often said, that the rarity of malignant diseases among primitive people is a fact and not an illusion. I regret that I could not have dealt with the important question of sarcoma, which demands separate consideration. It is also doubtful if most of the conclusions concerning carcinomas apply equally to sarcomas, but the latter constitute only from five to seven per cent. of the entire mortality, while the possibility of successful treatment is very much less than in the case of carcinomas. I likewise regret that I could not have enlarged upon the occupational aspects of cancer, but I may say that the subject will receive extended and exceptionally careful consideration in connection with my present investigations. Only those who have been engaged in statistical mortality research can appreciate what is involved in an effort to thoroughly grasp all the implications, inferences and conclusions derived from an analysis of more than 25,000 death certificates and more than a thousand elaborate records of living cancer cases. In its last analysis, such efforts as mine are primarily concerned with data that will serve the purpose of promoting the better education of the public and the medical profession in the essential facts of the cancer problem of the present day.

SPECIALIZED ASPECTS OF THE CANCER PROBLEM

The differential incidences of the *cancer death rate according to sex and* organs and parts of the body affected is possibly the most important, though in a measure one of the most neglected phases of the cancer problem. Taken in connection with locality, the calculations involved are exceedingly burdensome and time-consuming. Taken also in connection with the age distribution of the population, the result is a bewildering mass of statistics. To determine the precise correlation a long period of years is required to provide a satisfactory statistical basis for the minute examination of particular cancer facts in correlation to conditions that affect the particular rate of incidence. For the present purpose I shall limit myself to six cities, or, respectively, Albany, Boston, Buffalo, Chicago, New Orleans and San Francisco, for most of which data for five years have been utilized, though not for all.

For New Orleans the factor of race is also taken into consideration as regards the true effect of the race factor in its relation to sex and organs and parts of the body affected, in comparison or contrast with the white population. The following table will show the general cancer death rates according to sex for the cities above stated. The rates have been arranged in the order of the greatest frequency among the male population.

Table A

CANCER DEATH RATE ACCORDING TO SEX

	Males	Females	Excess of female cases
San Francisco, 1920-24	148.7	149.1	0.4
Albany, N. Y., 1919–1923	130.7	167.6	36.9
Boston, 1920-24	124.9	163.0	38.1
Chicago, 1924	110.1	125.9	15.8
New Orleans (white) 1919-23	106.0	119.0	13.0
New Orleans (colored) 1919–23	79.8	126.4	46.6
Buffalo, 1922	70.5	89.9	19.4

Rate per 100,000 population

According to this table the range in the *cancer death rate* for the male population for the five cities has been from 148.7 per 100,000 for San Francisco to 70.5 for the male population of Buffalo. For the female population there is a range in rates from 167.6 per 100,000 for Albany to 89.9 for the female population of Buffalo. The excess of the female over the male rate shows a rate of 0.4 per 100,000 for San Francisco to 46.6 per 100,000 for the colored population of New Orleans. These rate variations find their explanation not in the higher sex liability to cancer as such, but in the subsequently greater liability of women to particular forms of cancer, chiefly of course, cancer of the female genital organs and the breast.

CANCER OF THE STOMACH

Considering first the mortality from cancer of the stomach, it appears that for the five cities the rate shows a range for the male population from 45.1 per 100,000 to 19.4. For the female population the range is from 24.6 to 17.0. The excess in the male rate over the female rate is in almost the precise order of the frequency rate of the male population, ranging from an excess of 23.3 per 100,000 for San Francisco to 2.4 per 100,000 for Buffalo. I am not aware that a similar statement has heretofore been made available, emphasizing the decidedly greater liability of the male population to cancer of the stomach.

Table B

CANCER OF THE STOMACH

Rate per 100,000 population

	Males	Females	Excess of Males over Females
San Francisco	45.1	21.8	23.3
Albany	35.2	23.1	12.1
Chicago	33.9	23.4	10.5
Boston	31.7	24.8	6.9
New Orleans (colored)	29.0	18.9	10.1
New Orleans (white)	27.3	18.8	8.5
Buffalo	19.4	17.0	2.4

According to Vinson, "dysphagia, hiccough and regurgitation were the early symptoms noted in the 152 cases analyzed by him. Most of the patients gave a history of bolting food, meals at irregular intervals, and many used alcohol to excess. Dental sepsis was almost always present. A history of previous trauma to the oesophagus was not elicited in any case. Radium or Roentgen-ray therapy was found practically valueless."

For England and Wales in 1922 the death rate for cancer of the stomach, excluding deaths from cancer of the liver and gall-bladder, was 20.5 for males and 18.7 for females. For Holland, however, the rate was 73.4 for men and 58.0 for women, an extraordinary mortality which only of late has attracted attention. For the City of Basle, Switzerland, the male rate for cancer of the stomach was 59.3, while the female rate was 32.6. For Norway, for both sexes combined, the rate was 48.8. According to Duggan, reviewing 50 cases, 56 per cent, were adeno-carcinoma, 20 per cent, were scirrhous, 8 per cent, colloid, and 16 per cent, of a not specified type. The favorite seats of metastases were: regional lymph nodes in 52 per cent.; liver in 58 per cent.; pancreas in 26 per cent.; lungs in 22 per cent.; omentum in 18 per cent.; mesenteric nodes in 20 per cent.; retroperitoneal nodes in 16 per cent.; peritoneum in 14 per cent.; suprarenals in 12 per cent.; spleen in 10 per cent.; diaphragm in 8 per cent.; large and small intestine in 18 per cent.; and mediastinum in 12 per cent. The less common seats of metastases were: gall-bladder in 6 per cent.; oesophagus in 4 per cent.; pleura in 4 per cent.; kidney in 2 per cent., etc. Bilateral carcinoma of the ovary was found in two cases. There were associated arteriosclerosis in 16 cases and chronic nephritis in six. Mention should also be made of a report from Vienna, in the Journal of the American Medical Association, dated June 25, 1924, to the effect that "necropsy reports of the Vienna Pathological Department clearly prove that cancer of the stomach is increasing in frequency. It was 2.28 per cent. in 1918 and 3.6 per cent. in 1923. It is significant, however, that incorrect diagnoses were made in more than 18 per cent. of the cases. The operative mortality was over 10 per cent."

CANCER OF THE LIVER AND GALL-BLADDER

Cancer of the liver and gall-bladder shows some decidedly interesting variations both as to locality and as to sex incidence. The rate for males was highest in San Francisco, or 13.5 per 100,000, and lowest in Buffalo, or 4.3. For females the rate was highest in Chicago, or 23.4 per 100,000, and lowest for the colored population of New Orleans, or 5.7. For San Francisco and for the colored population of New Orleans the rate was higher for the male than for the female population, while in the remainder of the cities the female rate was more or less in excess, reaching a maximum in Chicago, where the male rate was 7.5 and the female rate 23.4 per 100,000 of population.

Table C

CANCER OF THE LIVER AND GALL-BLADDER

the feet to			Excess of	Excess of Female Rate
	Male	Female	Male Rate	remate hate
San Francisco	13.5	12.1	1.4	
New Orleans (colored)	12.7	5.7	7.0	
Boston	10.6	14.1		3.5
New Orleans (white)	9.3	11.3		2.0
Chicago	7.5	23.4		15.9
Albany	7.4	17.2		9.8
Buffalo	4.3	10.3		6.0

Rate per 100,000 of population

CANCER OF THE PERITONEUM AND INTESTINES

Cancer of the peritoneum and intestines shows a range in frequency for the male population from 14.8 for Albany to 5.3 for the colored population of New Orleans. For the female population the range is from 21.7 for Albany to 5.4 for the colored population of New Orleans. With the exception of Buffalo, in all of the cities the female death rate from cancer of the peritoneum and intestines exceeds the male rate, the excess being greatest in the City of Albany, while in the City of Buffalo the male rate exceeds the female rate by 1.2.

Table D

CANCER OF THE PERITONEUM AND INTESTINES

Rate per 100,000 population

	Male	Female	Excess of Male Rate	Excess of Female Rate
Albany	14.8	21.7		7.1
Boston	13.3	21.6		8.3
San Francisco	12.4	16.7		4.3
Chicago	10.4	11.6		1.2
Buffalo	9.1	7.9	1.2	
New Orleans (white)	5.4	8.0	-	2.6
New Orleans (colored)	5.3	5.4		0.1

Contrary to Aschoof, Finstere finds that cancer develops in gastric ulcers quite frequently. Among the 175 cancers resected by him during the last ten years, 26.6 per cent. had developed on the basis of ulcers, and which is still more important—among the 145 patients in whom he resected a supposedly pure gastric ulcer, 21.4 per cent. had cancer. It is impossible to make the diagnosis during operation without the histologic findings. A few instructive cases, in which callous ulcers of long standing developed into cancers, are given. He criticizes the statistics which seem to demonstrate the rarity of development of cancer from gastric ulcer. The observation is correct only in ulcers of the duodenum; he saw no instance of cancer in his 439 resected duodenal ulcers. He emphasizes the importance of his statistics for the indications of resection. Every hard ulcer should be resected before cancer develops. Once it penetrates into the pancreas, the patient is hardly to be considered operable.

CANCER OF THE RECTUM AND ANUS

There is a variation in the frequency of cancer of the rectum and anus from 9.6 for the male population of San Francisco to 2.0 for the white population of New Orleans, and for the female population there is a range from a maximum of 8.2 for the colored population of New Orleans to 3.5 for the white population of New Orleans. The male rate was in excess of the female rate in San Francisco, Albany and Chicago, the same in Buffalo, but the female rate exceeded the male rate for the white and colored population of New Orleans. The wide range of frequency for the male population is rather extraordinary and well deserving of further consideration.

Table E

CANCER OF THE RECTUM AND ANUS

Rate per 100,000 population

	Male	Female	Excess of Male Rate	Excess of Female Rate
San Francisco	9.6	6.4	3.2	-
Boston	7.8	7.8	-	-
Albany	6.3	5.9	0.4	-
Buffalo	4.3	4.3		-
New Orleans (colored)	4.1	8.2		4.1
New Orleans (white)	2.0	3.9	-	1.9

According to Mummery, the contributory conditions in *cancer of the rectum* include the following:

"Cancer tends to arise in the situation of old chronic ulcers of the rectum, upon the openings of chronic fistulae, and at the site of strictures previously of a non-malignant character. Further, I think there can be no doubt that simple tumors of the rectum and colon have a marked tendency to become malignant in course of time. I believe that the majority of cancers of the rectum start in the first place as simple adenomata. We are still, however, completely in the dark as to what causes the change. I have frequently seen cases in which a simple adenoma has subsequently developed into a malignant growth. Again, one not infrequently sees cases of adenoma of the rectum in which malignant growth has already commenced in some portion. So convinced am I of the danger of malignant disease supervening upon simple adenomata, however small, that I would never leave any portion of a polypus or adenoma in the rectum if it could possibly be removed. If it were only possible for the rectum to be examined periodically and any simple adenomata removed, I believe many cases of cancer of the alimentary tract would be prevented. Cancer of the large bowel appears to be commoner at those points at which any special friction in the contents is liable to take place. At least this would appear to be the explanation of some of the facts." ("Disease of the Rectum and Colon," New York, 1923.)

CANCER OF THE OESOPHAGUS

Cancer of the oesophagus shows a maximum rate of frequency of 8.8 for the City of Chicago and a minimum rate of 0.4 for the male colored population of New Orleans. For the female population, Chicago also shows a maximum rate of 2.3, while there were no deaths from cancer of the oesophagus among the colored population of New Orleans. The male rate is in excess of the female rate in all of the cities, clearly emphasizing that cancer of the oesophagus is of very rare occurrence among the female population.

Table F

CANCER OF THE OESOPHAGUS

Excess of

	Male	Female	Male Rate
Chicago	8.8	2.3	6.5
Boston	8.2	1.9	6.3
San Francisco	7.7	0.9	6.8
Albany	7.4	1.0	6.4
Buffalo	5.1	1.2	3.9
New Orleans (white)	4.2	0.5	3.7
New Orleans (colored)	0.4		0.4

William Hill, in the British Medical Journal of December 8, 1923, makes the observation that in his investigations "the number of those individuals who were found to be the victims of cancer of the oesophagus gave a clear history of excessive drinking of either ardent spirits or very hot fluids or both, but has not been such as to impress me with a correctness of the alleged association implying cause and effect." He, however, does not deny that such a causative relationship might possibly exist.

In the Journal of the American Medical Association of September 29, 1923, is a brief discussion of the results obtained by Jean Guisez. With regard to the treatment of the oesophageal cancer his opinion of surgical intervention is not very high. His own successes have resulted chiefly from the use of radium. In the space of thirteen years he has treated 170 cases of cancer by the local application of this substance. The diagnosis was verified by biopsy. In 92 of these a cure was apparently effected. In 18 of them the cure has been maintained both clinically and oesophago-scopically over a period varying from one to eleven years. In this connection a brief reference may be made to the alleged frequency of cancer of the oesophagus among the Chinese, due to the alleged eating of rice. There has never been a really authoritative statement based upon trust-worthy evidence that would support this widely accepted conclusion.

W. Fischer, in a German Clinical Weekly under date of December 9, 1924, rejects the foregoing view, pointing out that "what little is known respecting the etiology of cancer of the oesophagus, there are many facts in favor of the view that it is excited by chronic irritation. The disease occasionally develops in an old stricture due to injury by the oesophageal sound, or following the pressure of an aneurysm, or an exostosis from the body of a vertebra." He adds that cancer is most liable to develop at the three points where the oesophagus is narrowest. The disease is much more common in men than in women. The influence of alcoholic excess has been much disputed. In Argentina the disease has been regarded as the result of drinking very hot "mate"; in China the drinking of hot arrack has been regarded as an exciting cause. The author thinks that alcoholism is a possible exciting cause; and in hot arrack and hot "mate," both chemical and thermic irritation may act as exciting factors. Other factors, as regards diet and other irritation, possibly play an important part in the etiology.

Finally, there may be included here a brief observation by Blauwkuip, reported under date of August 30, 1924, to the effect that of 125 cases of cancer of the oesophagus observed in the municipal hospital of Amsterdam, 112 were males and 13 females. The distribution of the lesions was as follows: Upper third of oesophagus, 28 cases; middle third, 51 cases; lower third, 44 cases; doubtful, 1 case; upper and lower third, 1 case. In 13, metastases of various sizes were found in the wall of the oesophagus. They were usually situated beneath the mucous membrane in the neighborhood of the primary tumor, but sometimes 15 cm. distant from it. In 80 cases metastases were found in remote organs, and in 59 there were metastases in the lymphatic glands. In 49 cases, or about one-third of all the patients, the process remained localized on naked-eye examination.

CANCER OF THE LARYNX

According to St. Clair Thomson, "in intrinsic cancer of the larynx it ought to be generally recognized that hoarseness was the first symptom. Persistent hoarseness for more than three weeks should lead to the case being examined by an expert. Sir Felix Semon used to regard fixation of the cord as the characteristic common and early symptom. It was certainly characteristic, but it occurred late, and unfortunately many cases escaped treatment because, it was said, the cord was mobile. But to wait until the cord became immobile meant a deeper infiltration."

Cancer of the larynx prevailed mostly among the white male population of New Orleans, or at the rate of 5.1. The rate was lowest for the male colored population of New Orleans, or 0.8. The rates for the female population are negligible. In all of the cities the male rates materially exceed the female, while in Buffalo and New Orleans among the colored population no deaths from cancer of the larynx occurred among females.

Table G

CANCER OF THE LARYNX

Rate per 100,000 of Population

	Male	Female	Male Rate
New Orleans (white)	5.1	0.5	4.6
San Francisco	4.3	0.4	3.9
Albany	4.1	0.3	3.8
Chicago	3.1	0.4	2.7
Boston	3.0	0.4	2.6
Buffalo	2.0	-	2.0
New Orleans (colored)	0.8	_	0.8

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CANCER OF THE THROAT

Cancer of the throat is very rare among the female population, but it is of relatively high frequency among the male population. The rate was highest for the white male population of New Orleans, or 2.8 per 100,000, followed by Albany with a rate of 2.6, Boston 2.2, and San Francisco with a rate of 1.5. For Chicago the male rate was 0.8, for Buffalo 0.4, and the same for the colored male population of New Orleans.

The highest mortality from cancer of the throat among the female population occurred in Albany, or at the rate of 0.7 per 100,000.

CANCER OF THE NECK

Cancer of the neck is of rare occurrence among the female population, but among the male population the rate reported for New Orleans was 4.6 per 100,000, followed by San Francisco with a rate of 4.4, Boston with a rate of 3.6, and Albany with a rate of 3.3. For Chicago the rate was 1.5, for Buffalo 0.8, and for the colored population of New Orleans 0.4.

The rates for the female population were negligible, the maximum rate having occurred in Albany, or 1.7 per 100,000, followed by the white female population of New Orleans at the rate of 1.2.

CANCER OF THE TONGUE

Cancer of the tongue is also extremely rare in the female population, but for the male population the rate shows a range from 6.4 for the white male population of New Orleans to 5.1 for San Francisco, followed by a rate of 4.1 for Boston and of 3.7 for Albany, 2.2 for Chicago, and 1.2 for Buffalo and the colored population of New Orleans. The rate for the female population has been less than one per 100,000.

According to Dr. Charles Ryall, Surgeon at the Cancer Hospital, London, "the relation of syphilis to cancer of the tongue occurred in over 80 per cent. of the cases." Sir D'Arcy Powers is equally emphatic in the view that cancer of the tongue becomes invariably greatest in connection with syphilitic infections. Hastings Gilford quotes Cougerot to the effect that of 157 cases of syphilis of the tongue, 102 were associated with cancer of the same part. He also quotes Powers, who observes "you must be a smoker or a syphilitic; and those who combine those two conditions, especially the latter, have a much greater risk than other people. Cancer of the tongue, therefor, might be called the cancer of syphilitic smokers." There are those who claim that cancer of the tongue is primarily related to oral sepsis. But this view is in all probability incorrect if disassociated from syphilis and smoking habits.

On the early diagnosis of cancer of the tongue, Kummel emphasizes the necessity for palpating the tongue, because the tumor may be under the mucosa. Soft fibromas or lipomas are not as hard as cancer, and have definite limits. Some epitheliomas may have also sharp limits, but they are usually ulcerated. A submucous tumor in the middle line on the base of the tongue may be a goiter. Tuberculosis, syphilis and actinomycosis may simulate a cancer, especially before ulceration. A syphilitic gumma is very important for diagnosis because of its curability. Yet he warns against considering a slight amelioration after treatment as a proof of the syphilitic nature of the tumor. Great pains are typical in deep carcinomas. Carcinoma developing from leukoplakia is not very obvious, but should be easily diagnosed, if the physician would think of the possibility. Decubital ulcers must have their cause in rough teeth; they disappear with removal of the cause.

Bloodgood reviews the facts with regard to cancer of the tongue in the Journal of the American Medical Association for August 15, 1925. Referring to an earlier article of his in the Journal of July 15, 1921, in which he summarizes his experience with cancer of the tongue for thirty years. In brief he observes: "My records fail to show a single cure of a cancer of the tongue of sufficient extent to justify an operation which would render the use of a stomach-tube imperative for a long time. In the last five years, especially, I have had the opportunity to observe and treat so many early cases of cancer of the tongue that I have concluded that the routine complete excision of glands of the neck for early cases of cancer of the tongue is not justifiable by the evidence. If the glands are involved, the probability of a five-year cure is less than 10 per cent.; if they are not involved, it is unnecessary to remove them. At the present time in cancer of the lip the reverse conclusion is true, because if the glands are involved the chances of a five-year cure are 50 per cent." He also observes that he had been unable to obtain any evidence that Roentgen rays or radium alone have accomplished a cure when the glands are involved.

To the foregoing I add a statement by Truesdale, in the Annals of Surgery for October, 1923, to the effect that, with reference to cancer of the tongue, "prognosis is not hopeful in patients under forty years of age, except in the initial stages; in the absence of operative treatment the average duration of life is two years. The operative mortality is now not more than five per cent., and the proportion of cures persisting after three years is at least 30 per cent. The treatment is surgical in the operable stages; X-rays and radium are found to be disappointing." He advocates the use of the cautery for the purpose of dissection.

With reference to the mention of the possibility of a lesion at the base of the tongue being of goiterous origin, mention should be made of a case of a carcinoma in an aberrant thyroid at the base of the tongue reported by Dr. Astley P. C. Ashhurst and Dr. C. Y. White of Philadelphia, in the *Journal of the American Medical Association* for October 17, 1925.

CANCER OF THE LIPS

Cancer of the lips is a comparatively rare affliction almost entirely limited to the male population. The highest rates that are reported are for Albany, of 1.9, for Boston 1.2, and for San Francisco 1.1. For Chicago the rate was 0.4, for the white male population of New Orleans 0.5, and for the colored male population of New Orleans 0.8. There were very few deaths from this type of cancer reported for Chicago and San Francisco, and none for Buffalo.

According to Bloodgood, as quoted by Hastings Gilford, "lesions of the lower lip suggestive of epithelioma should be excised under local anaesthesia in preference to treatment by rays. His experience of some 500 cases in the course of thirty years is that 65 per cent. of the lesions excised are microscopically benign, and of the remaining 40 per cent. threefourths of the lymph nodes when removed show no evidence of metastasis."

The same author quotes Brewers' statistics of cancer of the lip, comprising 537 cases. "Cases in which the primary lesion alone was excised showed no recurrence in 66 per cent. of the cases after five years. Cases in which the primary lesion and submaxillary lymph nodes excised showed no recurrence after five years in 92 per cent. of the cases, while the third group, in which the primary lesion and lymph nodes were both affected and excised, showed no recurrence in 34 per cent. of the cases."

For some extremely interesting observations on cancer of the lip, see "Cancer and the Public," by Charles P. Childs. Referring to the use of hot clay pipes as a causative factor he observes: "Patients can nearly always tell you that the cancer appeared on the side on which they used the pipes." But another factor to be considered is the irritation caused by broken, decayed or irregular teeth. He is also of the opinion that cancer of the lip is comparatively rare among the upper classes, which he explains by the greater care the latter take of their teeth, and if they use a pipe at all, one is used which is not made of clay. In my investigations the correlation of cancer of the lip to excessive smoking of pipes is certainly striking.

CANCER OF THE JAW

This is a somewhat more common affliction, almost entirely limited to the male population. The rate was highest in Albany, or 3.0 per 100,000 for the male population, followed by a rate of 2.9 for San Francisco, and the same rate for the colored population of New Orleans. For the white male population of New Orleans the rate was 2.8, for Chicago 2.7, for Boston 2.6, and for Buffalo 2.0. Among the colored female population of New Orleans that rate was 1.8, while for the remainder of the cities the rate was less than 1 per 100,000.

A valuable discussion of the Roentgen ray in the diagnosis of tumors of the jaw, by Drs. New and Figi of Rochester, Minn., appeared in the *Journal of the American Medical Assciation* for November 15, 1924. The authors conclude that "(1) a roentgenogram is of value in the diagnosis of certain types of tumors found only in the jaws, such as loentiasis ossium, solid odontomas and the cystic odontomas, including the adamantinomas. (2) An expanding unilocular cyst-like tumor of the jaw may be a benign cyst, central carcinoma, endothelioma, giant cell tumor, fibroma, myxoma or cystic odontoma. The varying density and the presence of striae of bone may aid in differentiating these. (3) It may not be possible from the roentgenogram and clinical history to determine whether a condition is inflammatory, benign or malignant. Exploration and removal of tissue for frozen microscopic section should be made in questionable cases."

CANCER OF THE HEART

Cancer of the heart has been extremely rare, but curiously enough the only city reporting a rate as high as 0.8 per 100,000 is Buffalo, followed by San Francisco with a rate of 0.4 for the male population, while for the remainder of the cities the rate was 0.1 or less.

The rate for the female population varies likewise, the maximum having been reported for Buffalo with a rate of 0.4, followed by San Francisco with 0.3 and Chicago 0.2. These rates are based on so few deaths that they cannot be accepted as conclusive. The affliction in question is of very rare occurrence and the sex factor in question does not appear to be of special importance.

The rarity of cancer of the heart is well known. In the Medical Press of Buenos Aires, of May 30, 1925, as guoted in the Journal of the American Medical Association, eleven cases of tumors of the heart are dealt with by Drs. Cabred and Mosto. They mention that in 2,942 autopsies at the Johns Hopkins Hospital only ten cases of cancer of the heart were discovered and of these only one was primary. At the Berlin Institute, among 6,655 necropsies, only fifteen secondary carcinomas were found. They quote Aschoff to the effect that only one secondary carcinoma was found in 4,500 autopsies. In their own institute they discovered four secondary tumors in three necropsies during the last year and they have ten specimens in their museum. It is pointed out in this connection that whether primary or secondary, the tumors usually escape detection during life, as they induce no characteristic symptoms, the clinical picture blending with that of heart disease in general. Fibromas form the majority of tumors of the heart. They conclude that notwithstanding the heart is so seldom the seat of a tumor, yet single metastasis in this organ is comparatively frequent.

CANCER OF THE PANCREAS

Cancer of the pancreas is more common among the male than among the female population, but both sexes are liable to a measurable degree. The rate for the male population was highest for San Francisco, or 4.6, followed by the Chicago rate of 4.2, Boston 3.9, and Buffalo 3.2. The rate was lowest for the colored male population of New Orleans, or only 0.4.

The female rate was highest in Chicago, or 3.5, followed by Boston with a rate of 3.4, and Albany 1.7. It was lowest among the female colored

population of New Orleans, or 0.4. Throughout, the male rates are in excess of the female rates except for the colored population of New Orleans, where they are the same.

In the Swiss Medical Review, Geneva, March 10, 1925, it is said:

"Six cases of cancer in the body of the pancreas are reviewed. The first manifestations in all were attacks of pain, often with intense paroxysms, but sometimes a dull ache. Signs of compression of the abdominal aorta predominated in every case. The first to attract attention was the presence in the epigastric region of a small, firm, deep tumor, with marked pulsation. Bickel, Katzenelbogen and Mozer believe that this pancreasaorta syndrome should be added to the pancreas-biliary syndrome and the pancreas-solar plexus syndrome; alone or combined with these it testifies to cancer in the body of the pancreas. The diagnosis in their cases had been ancurysm of the abdominal aorta, and no operation had been attempted. The course was usually from four to six months after the first onset of the pain."

Hastings Gilford quotes Mayo Robson, who has examined over 100 cancers of the pancreas, that it is "quite common to find in these cases evidence of pancreatitis superadded to the growth." He also quotes Borst, who records examples of cirrhosis in the pancreas with changes in the parenchyma of a kind chiefly resembling those seen in cirrhosis carcinomatosa of the liver.

Table H

CANCER OF THE PANCREAS

Rate per 100,000 of Population

	Male	Female	Excess of Male Rate
San Francisco	4.6	3.3	3.3
Chicago	4.2	3.5	0.7
Boston	3.9	3.4	0.5
Buffalo	3.2	1.2	2.0
Albany	3.0	1.7	1.3
New Orleans (white)	1.2	0.5	0.7
New Orleans (colored)	0.4	0.4	

CANCER OF THE KIDNEYS

Cancer of the kidneys was more common among the male population, having prevailed at the rate of 3.1 for Chicago, while it was lowest among the colored population of New Orleans, or 0.4. The female rate was highest for Albany, or 2.1, while no deaths from this form of cancer occurred in Buffalo or among the colored population of New Orleans. Throughout, the rates for the male population are in excess of the rates for the female population.

Cancer of the kidney has been reviewed at some length in several contributions to the *Southern Medical Journal* of February, 1925, including an article by Hugh Cabot of the University of Michigan, Ann Arbor, Mich., and another by Dr. Hickey of the same institution. Attention is drawn to

the significance of pain as a diagnostic indication, but it is said that "a diagnosis of tumor based upon the character or location of the pain is not possible. In our series of cases pain was present in some form or other in about 78 per cent. and absent in 22 per cent. The pain was referred to the abdomen, lumbar region, back, loin, etc. In 32 cases, or 59 per cent., a palpable tumor was present; while no tumor could be felt in 39 per cent. The total number of cases in this series was 54. Secondary symptoms by frequency in 25 cases and nocturia in 20 cases. Constipation was present in 18 cases and a burning sensation in 11 cases, while urination was painful in 10 cases." The observations include some important data on blood pressure. Dr. Cabot mentioned the immediate mortality, which in the past had been high, while current statistics from the largest groups of cases show an operative mortality of something like 25 per cent. But he holds this to be probably too high. For under more favorable conditions he believes the mortality rate should not be much more than 10 per cent.

Dr. Hickey reviews the disease with reference to X-ray treatment, concluding, first, that changes suggestive of malignancy in the size and contour of the kidney can be usually satisfactorily shown by the X-ray; second, changes in the size, shape and contour of the pelvis and calices can be decisively shown in the usual pyelogram; third, metastic growths in the lungs and long bones are most easily found by the X-ray; and fourth, all these examinations can best be carried out by active and harmonious coöperation between the urologist and the roentgenologist.

The subject is also dealt with in an article in a review of a treatise on malignant disease of the kidneys, published in the *Cancer Library*, under the direction of Professors Hartman and Berard, who call attention to the relative frequency to which this affection is met with in early life, forming from 38 to 50 per cent. of all the tumors of infancy. The review concludes with the statement that "cancer of the kidney records after a nephrectomy in a proportion of 80 per cent; in 100 cases 22 died from the operation and of the 78 survivors there was rapid recurrence in 61, while in 16 only was there prolonged survival." With regard to carcinoma of the pelvis it is said that in 54 cases, in which 30 were operated upon, there was a rapid recurrence in the majority.

Table I

CANCER OF THE KIDNEYS

Rate per 100,000 Population

	Male	Female	Male Rate
Chicago	3.1	1.6	1.5
Albany	2.6	2.1	0.5
Boston	2.3	1.9	0.4
San Francisco	1.8	1.1	0.7
New Orleans (white)	1.4	1.2	0.2
Buffalo	0.4	-	0.4
New Orleans (colored)	0.4	-	0.4

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CANCER OF THE BLADDER

Cancer of the bladder was most common in Chicago, prevailing among the male population at the rate of 7.7 per 100,000, followed by Boston with a rate of 7.2, the white population of New Orleans 6.5, and Albany with a rate of 4.8. The rate was lowest for the colored male population of New Orleans, or 3.3. For the female population the rate was highest for Albany, or 4.5, followed by Chicago with a rate of 4.0, and Buffalo with a rate of 3.6. The male rate for cancer of the bladder was in excess of the female rate in all the cities except Buffalo, where it was the same for both sexes.

Tumors involving the dome of the bladder have been reviewed by Dr. Albert J. Scholl of Los Angeles in the *Journal of the American Medical Association*, October 11, 1924. Regarding post-operative results, Dr. Scholl points out that tumors of the dome of the bladder are usually highly malignant and extensive. On the other hand they are readily resected, occur earlier in life than tumors of the base, and obstruction to the ureteral or bladder outlets is rare. Consequently, infection and destruction of renal function, which is so commonly the cause of death following resection of tumors of the base, is rare. Since the tumors occur in a comparatively symptomless area of the bladder, they grow large before operation is attempted. Nine of the twenty-eight patients for whom complete operative data were obtainable died. Dr. Corbus, in discussing the paper, declared himself absolutely opposed to the excision of any tumor whether benign or malignant, holding that diathermy was the greatest force that had been added to medicine and surgery in recent years.

Dr. Dakin takes occasion to say that in treating tumors of the bladder he was inclined to try the cautery, just as in surgery. Dr. Gardner was of the opinion that diathermy would be a great improvement over fulgeration. Dr. Bumpus of Rochester concluded by saying that the first objective of the paper had been "to emphasize the necessity for an improved classification; and the second, to obtain basic statistics that would serve as a yardstick with which we could measure the results accomplished by any specific methods of treatment. I do not think that surgery, which had an operative mortality in this series of 240 cases, or 11.2 per cent., should be abandoned when we find that of 196 patients traced, 105, or 53 per cent., are living, three over six years, nine over five years, fourteen over four years, and sixteen over three years. Until the final results of treatment by diathermy are shown to be superior to those of surgery, the latter surely should not be abandoned." The paper was apparently a joint contribution by Dr. Scholl and Dr. Bumpus. The latter, in the Journal of the American Medical Association for October 11, 1924, in discussion of modern methods and results in treating malignancy of the bladder, enlarges upon the discussion to great advantage. He deals separately with every important method of treatment, pointing out that in fulgeration employed in 84 of the 527 cases the following results had been observed:

"Recurrence was common even in low degrees of malignancy. It occurred once in sixteen cases, twice in four cases, three times in five cases, four times in three cases, six times in one case and seven times in one case, a total of 35 per cent. recurrence, agreeing with the earlier series reported by Braasch, of 27 per cent. With reference to the use of radium alone, or in conjunction with some other form of treatment which was employed in 212 cases, it is said that the average duration of life from the onset of the disease to the death of the patient was 2.85 years, or approximately the same as though no form of treatment had been used. With reference to the use of radium with cystostomy it is said that there was a mortality of 10.86, or approximately one-third higher than when cystostomy alone was employed; but the mortality following the latter procedure had been 7.69 per cent. The average length of life following the operation in six cases was but a few months longer than in those in which exploratory cystostomy was performed. Of the 29 patients who died, only four lived more than a year, and of the four living none had lived a year." He concluded by saying that if the tumor was too extensive to be removed surgically, it is evidently better not to employ radium, since the mortality was greater than the operative mortality, and the life of the patient is not lengthened.

I will pass over the use of the cautery and of the cautery and radium, and briefly refer only to surgery and radium. Seventy-eight patients were given radium besides having resection or excision. There were five operative deaths, a mortality of 6.41 per cent. In ten instances, the radium was applied with a cystoscope one or two weeks before operation. Two of the patients died shortly after operation. Radium was given to 25 patients during the operation or immediately following. There were three operative deaths. Twenty of the remaining 22 patients had been traced and thirteen had been dead on an average of one year after operation, seven were alive, and three of these had received radium emanations at the time of operation and in none had the malignancy recurred. The other four living patients had received radium immediately following operation. One has now lived five years since operation. The three other patients had lived approximately four years each.

Summarizing the foregoing he points out that of the 78 patients who had received radium, either before, during or after operation, 62 had been traced, of these 22, or 35.5 per cent., were alive, four having lived five years; seven, four years; four, more than three years; three, more than two years; and four, more than one year; the average being 3.42 years since operation. The total duration of life of the patients since the first symptoms averages 5.2 years, or more than twice that of the 75 patients who received no form of treatment.

Discussing the treatment by excision or resection he observes that "the most important factor with regard to prognosis is the degree of malignancy. 166 of the 196 patients treated surgically who were traced had tumors graded according to Broders as follows: 12 were of Grade 1 malignancy; 2 of these patients died in the hospital; 9 are living, and 1 is dead. 56 were of Grade 2 malignancy; 9 patients died following operation; 31 were alive, and 14 are dead. 73 were of Grade 3 malignancy; 10 patients died following operation; 27 are alive, and 37 are dead. 25 were of Grade 4 malignancy; 1 patient died at operation; 11 are living, and 13 are dead. If the patients are placed in two groups, there are 68 with a low grade of malignancy having a ratio of 40 living to 15 dead, or about 3 to 1, and there are 98 patients with high degrees of malignancy having a ratio of 38 living to 50 dead, or one to one and one third." Such ratios, he maintained, are irrefutable evidence that the degree of malignancy, as graded by Broders, mainly determines the results of any modern method of treating malignancy of the bladder.

Of special interest are papillomas of the bladder, some of which at least are directly related to certain occupations. I regret that on this occasion I cannot touch upon this interesting phase of the cancer question. As far as it is possible to judge, such forms of cancer are not as common in this country as in certain European countries. An interesting discussion on this question occurs in the London Lancet of September 12, 1925. In the Periodical for Urology, Leipsic, 1924, there is a discussion by Posner on Cancer of the Bladder in Aniline Workers, in which he mentioned the fact that workers who deal with aniline are more than others affected with cancer of the bladder, and that the first symptoms do not appear until many years after abandoning the occupation. He believes that aniline not only causes hematolysis but acts in some way directly on the bladder. Experimental research has been constantly negative, and metastasis of the bladder has never been reported as cancers. The subject is very briefly referred to in the Annual Report of the British Empire Cancer Campaign, published in 1925, according to which epithelioma of the urinary bladder is known to occur in workers in the dye factories in Germany. No cases have been reported up to date in England, though undoubtedly some must have occurred. The particular product which is active is not known. In an attempt to determine this we have applied various aniline products weekly to the skin of mice. Subcutaneous injection repeatedly in 127 mice has furnished a certain amount of evidence that there is a certain reaction to some of the vesicular epithelioma. An exhaustive study of the whole question was published by the International Labor Office in 1921, under the title "Cancer of the Bladder Among Workers in Aniline Factories," including a valuable bibliography. It concludes with the statement that "there is a close connection between a manipulation of certain amino compound products and the existence of tumor of the bladder. The number of cases of tumor of the bladder proved to have occurred among workers in contact with amino compounds is certainly small. It must, therefore, be concluded from this that the individual factor plays a great part in the pathology of the disease, as the patient constitutes a small minority. Action of long duration is necessary to produce tumors of the bladder. There is

no relation, however, between the occurrence and the duration of employment."

Of interest in this connection are the observations by Young and Scott, in the New York Medical Record of September 5, 1923, who reported on the basis of a review of 380 cases the results obtained by various methods of treating tumors of the bladder. Their observations show that about 80 per cent. of bladder tumors occur between ages 40 and 69. Both papilloma and carcinoma are much more frequent in the regions of the trigone, ureteral orifices, adjacent lateral walls of the bladder, and the internal urinary meatus. They consider that the prognosis of bladder tumors is now better than it was, for they think that now about 95 per cent. of benign and 75 per cent. of malignant pillomata, about 50 per cent. of popillary carcinomata, and almost 25 per cent. of infiltrating carcinomata, can be cured by one or more of the methods mentioned by them.

Table J

CANCER OF THE BLADDER

Rate per 100,000 Population

Excess of

	Male	Female	Male Rate
Chicago	7.7	4.0	3.7
Boston	7.2	3.4	3.8
New Orleans (white)	6.5	2.1	4.4
Albany	4.8	4.5	0.3
San Francisco	4.6	2.3	2.3
Buffalo	3.6	3.6	-
New Orleans (colored)	3.3	1.4	1.9

CANCER OF THE LUNGS AND PLEURA

The rate for this form of cancer was highest for the male population of San Francisco, or 4.9, followed by Boston and the white male population of New Orleans with 3.8, and Chicago with 3.7. The rate for males was lowest for the colored population of New Orleans, or 0.4. For the female population the rate was highest in San Francisco, or 4.5, and lowest for the female colored population of New Orleans, 0.7. The rate for males was in excess of females for all the cities except for the colored population of New Orleans. The disparity in sex rates is not as pronounced as is generally assumed to be the case.

Table K

CANCER OF THE LUNGS AND PLEURA

Rate per 100,000 population

	Male	Female	Excess of Male Rate	Excess of Female Rate
San Francisco	4.9	4.5	0.4	-
Boston	3.8	3.9	-	0.1
New Orleans (white)	3.8	1.7	2.1	-
Chicago	3.7	1.9	1.8	-
Albany	3.3	1.7	1.6	-
Buffalo	2.4	1.6	0.8	-
New Orleans (colored)	0.4	0.7	-	0.3

CANCER OF THE SKIN

Cancer of the skin is comparatively rare in this country, but curiously enough the highest rate of frequency was for the male colored population of New Orleans, or 1.2, followed by San Francisco with a rate of 1.0. The rate for the white population of New Orleans was 0.9, Chicago 0.6, and Boston 0.4. There were no deaths from cancer of the skin reported for Albany and Buffalo.

For the female population the rate was highest for Boston 1.0 followed by Albany with 0.7, Chicago and San Francisco with a rate of 0.5, and the white population of New Orleans with a rate of 0.4. There were no deaths from cancer reported for the female population of Buffalo nor for the colored female population of New Orleans.

The wide variations in local incidence of cancer of the skin are suggestive. I hope to be able to consider this matter in detail in connection with the San Francisco investigation. No form of cancer is more easily subject to early operation, and yet the evidence is conclusive that there is frequently a long lamentable delay. It may also be said that probably no form of cancer is more subject to malpractice on the part of alleged cancer specialists using methods which have not the approval of qualified authorities. One of the best of recent contributions on external cancer is by Dr. Martin F. Engman of St. Louis (see Journal American Medical Association, January 10, 1925). Engman points out that the environmental conditions that influence the cycle of the cells to produce cancer occur in that decade of life when marked physical, nutritional and chemical changes begin in the skin. These first occur in the elastic and connective tissue elements and extend to the lymph and blood supply. Again, a potent change affecting the epithelial cells, usually in middle life, is brought about by various traumas of actinic, mechanical, chemical, and inflammatory origin. Chemical and histologic investigation has demonstrated a suggestive fact that changed physicochemical conditions surrounding the cell may induce that abnormal potentiality of growth called malignancy, and that these physicochemical conditions may in turn be induced by "life's wear or by various forms of trauma." Engman differentiates four types of epithereal cancer of the skin: (1) basal cell cancer or rodent ulcer; (2) prickle or squamous cell cancer; (3) nevo-carcinoma or melanoma; and (4) Paget's disease or dyskeratosis of Darier. Unfortunately the death classification of skin cancers does not take these details into account. In my own investigations I have been somewhat concerned with the influence of sunlight on skin cancer, particularly so after reading the elaborate treatise on the "Influence of Sunlight in the Production of Cancer of the Skin," by C. Norman Powell, published in London, 1918. It is suggestive in this connection that San Diego, which has probably the largest amount of sunshine throughout the year, has also the highest cancer death rate of any city in the United States, now exceeding 200 per 100,000. But my tropical investigations have failed to furnish the evidence that sunlight

exposure is particularly conducive to skin cancer, and I have made similar observations among the Indians of the southwest, who were almost constantly out in the open air and exposed to sunlight without hindrance. Before one can draw definite conclusions regarding skin cancer a thoroughly detailed study must be made of individual cases, particularly as regards rodent ulcers. The skin is subject to a large amount of irritation as well as traumas of more or less degree of severity. Yet, broadly speaking, skin cancers are not common excepting possibly in certain localities and certain occupations. According to Childer, the latest returns from the Mayo Clinic embracing the traceable results of 256 cases of cancer of the skin after operation, gives the following results. 16 of these were inoperable, but 250 were operated upon. Of these 141 had been traced, the remaining 109 had been lost sight of. Of the 141 that had been traced 68, or 48 per cent., are living, and of these, 56, that is 82 per cent., report a good result and have been free from the disease for an average of 7.44 years; 73 of these 141 cases, that is 52 per cent., are dead. Of these the cause of death was determined in 58, and of this number 38, or 66 per cent., died from a recurrence of the disease. By combining the good results of the patients who lived a considerable number of years without recurrence for an average period of 7.44 years, a total good result, or probable cure of 60 per cent., has been achieved. Childer also quotes Berlin statistics for cancer of the skin, according to which 76 per cent. had had no recurrence, or had meanwhile died of other diseases.

Morton has recently made an interesting report upon 29 cases of cancer of the skin concerning which there is a brief account in the *Journal* of the American Medical Association as follows:

"It is certain that a combination of surgery and radiotherapy is desirable in every case. The primary growth should be disposed of rapidly by electrocoagulation or cautery removal, thus eliminating one dangerous zone as a focus from which metastasis may occur. Squamous cell cancers of the scalp and forehead do not require removal of the regional glands; cancers of the face, cheek, eyelid, chin and nose, however, should have the glands removed also. Growths on the extremities and scrotum are prone to metastasize, and the regional glands are frequently involved. The squamous cell growths on the ear may metastasize to the parotid, preauricular or poseauricular glands or to glands of the neck. Whenever possible, cooperation between surgeon and radiotherapist will offer the best chance of bettering results."

CANCER OF THE BONES

Cancer of the bones, chiefly is not exclusively sarcomas, has not as yet been dealt with in matters of detail, but special consideration of sarcomata is in contemplation later. Reexamination of all the death certificates reporting deaths from cancer of the bone will be necessary to make sure as to what is strictly to be considered sarcoma and what may be classified otherwise. Cancer of the bone occurs at the rate of 4.4 among the male population of Albany, followed by a rate of 3.9 for San Francisco, reaching a minimum rate of 0.8 for Buffalo. For the female population the rate was highest for the colored population of New Orleans, or 3.6, followed by a rate of 3.4 for Albany and Boston, and 3.2 for San Francisco. Sex differences in this form of affliction are not very pronounced.

No aspect of the cancer problem presents a more interesting aspect, at least statistically, than that of sarcoma. This form of cancer should always be clearly differentiated from carcinomas, both in death returns and institutional statistics. Thus far it has not been possible, however, to do so in my own investigations, but the matter will not be lost sight of in the future. I think it is generally held that the outcome of sarcoma cases is more likely to be fatal than in other forms of cancer. According to an analysis by Christiansen of 1000 cases of bone tumors collected from various sources. it is shown that of osteogenic sarcoma 58.7 per cent. occurred in the male and 41.3 occurred in the female. The highest age incidence for osteogenic sarcoma for both sexes was in the second decade of life, although more than 33 per cent. occurred after the thirtieth year. The epiphyses are not involved in at least 33 per cent. of osteogenic sarcomas at the diaphyseal ends of long bones. Both sexes are about equally affected with giant-cell tumors, namely, female 53 per cent., male 47 per cent. Giant-cell tumors are most common in the third decade of life, but 32 per cent. occurred after the thirtieth year. Myeloma is not a disease limited to adult life, for 39 per cent. of the cases occur before the twenty-first year. Benign angiomas must be considered in every diagnosis of a vascular tumor of the bone. Solitary diffuse endothelioma is not an uncommon tumor, especially in younger people. Predisposing sites for osteogenic tumors, benign and malignant, and giant-cell tumors, are at the ends of long bones, where there is an epiphyseal disk of maximum growth, where the growth is longest, and where the natural growth momentum is greatest.

Blumm has recently described two cases of sarcoma in children, age respectively four and one-half and eight years. In these cases radium treatment appeared to be checking the advance of the growth, at least for six months after operation. On the general subject of Roentgen ray treatment of sarcoma, Carvina reports the unusual findings in a lymphosarcoma in the mediastinum and neck of an elderly woman, two weeks after deep roentgen irradiation. The tumor showed numerous patches of necrosis of varying intensity, evidently proportional to the penetration of the rays. He compares this to similar cases on record, remarking that none seems to have been examined at such a brief interval after the exposure. A case of primary sarcoma of the stomach in a woman aged 38 had been reported by Kapel in a Danish medical journal. In this case "resection resulted in apparent recovery, until recurrence proved fatal the tenth moth." It is also said in this connection that "up to 1917 resection had been made in sixty cases of sarcoma of the stomach with an operative mortality of 18

per cent.; in one case recovery is known for fifteen years, in another, nine years. Finally mention may be made of a case reported by Moise in 1924 of the occurrence of a sarcoma and carcinoma in the uterus of a patient aged 60. In his opinion the majority of authors appear to believe that a sarcoma is an older growth and that the sarcoma develops as the result of epithelial proliferation over the sarcoma." Finally on the general subject of Roentgen therapy of sarcoma of the orbit, Dr. Fowler of Philadelphia summarizes his conclusions as follows: "(1) Irradiation has shown improvement, but has been an ultimate failure in nearly all recurrent cases of sarcoma of the orbit. (2) Roentgenotherapy has been successful in the majority of primary sarcomas of the orbit. (3) Roentgenotherapy should be the method of choice in all primary sarcomas of the orbit. (4) When used early, roentgenotherapy has shown prompt results, and has done no harm to normal tissues. (5) A biopsy for diagnostic purposes does not seem justified. (6) Skill and general medical knowledge is of as much importance in radiotherapy as in surgery.

Table L

CANCER OF THE BONES

Rate per 100,000 Population

	Male	Female	Excess of Male Rate	Excess of Female Rate
Albany	4.4	3.4	1.0	-
San Francisco	3.9	3.2	0.7	-
Boston	3.3	3.4	_	0.1
New Orleans (colored)	3.3	3.6	-	0.3
Chicago	2.6	2.6	-	-
New Orleans (white)	1.9	2.9	-	1.0
Buffalo	0.8	-	0.8	_

All of the foregoing considerations have dealt with malignant tumors to which both sexes are liable. It now remains for me to discuss briefly the tumors peculiar to each sex. This however hardly applies to cancer of the breast, to which men are liable to a very slight degree, but it seems best to deal with this matter in the present discussion.

CANCER OF THE BREAST

No deaths from cancer of the breast among men, for illustration, were reported for Albany, Buffalo, Chicago or the colored population of New Orleans. For the white population of New Orleans the male mortality from cancer of the breast was only 0.1 per 100,000, while it was 0.2 for San Francisco. For the female population the rates have been as follows:

Table M

	Rate per 100,000 Population
Albany	29.7
San Francisco	26.3
Boston	26.4
Chicago	19.9
New Orleans (colored)	18.8
New Orleans (white)	16.8
Buffalo	15.0

CANCER OF THE BREAST—FEMALE

It is shown by the preceding table that the mortality from cancer of the breast was highest in Albany, or 29.7 per 100,000 of the female population, followed by San Francisco with a rate of 26.3, reaching a minimum of 15.0 in Buffalo. The rates for the white and colored female population of New Orleans are almost the same.

No phase of the cancer problem has probably received more extended consideration than cancer of the breast. The British Ministry of Health in 1924 published a special report on cancer of the breast and its surgical treatment, by Dr. Jane E. Lane Claypon, which contains a wealth of useful information which cannot unfortunately be conveniently summarized for the present purpose. It deals with every aspect of the problem and should be consulted by all who wish to secure a correct retrospect of the present and past situation. The facts are summed up as follows:

"1. After the older or incomplete operation, out of a net total of 7,029 patients, 2,956, or 42.1 per cent., were alive at the end of three years after operation.

"2. After the modern or complete operation, out of a net total of 8,921 patients, 3,857, or 43.2 per cent., were alive at the end of three years after operation.

"3. With the complete operation, the prognosis is intensively affected by the stage of the disease at which the patient is operated on. Thus: (a) If the disease is still local and no secondary growth has occurred, the percentage of survivors at three or more years after operation is from 65 to 80. (b) If secondary growths have already occurred, the percentage of survivors at three years after operation falls to 30 or less. (c) If the disease is very advanced, from 8 to 9 per cent. survive only as long as three years after operation.

"4. The expectation of life after the onset of cancer of the breast when the disease runs its own course, may be taken as being, on an average, not more than three and one-half years.

"5. In the aggregate, *i. e.*, without reference to the stage of the disease at operation—the effect of complete operation is to prolong life, increasing the expectation of life from the onset of the disease by from two to three years.

"6. In patients operated on by the complete operation, while the disease is still local, the expectation of life from the onset of the disease may be, on the average, as much as ten years more than in the case of persons not operated on."

With reference to the actual periods alleged to have lapsed between noticing the growth and application of treatment, it appears that out of 1,817 cases 50 had a duration of more than five years, and 43 per cent. of all the patients had noticed the growth for a longer period than one year. It is pointed out in this connection that "where every day is of importance. the loss of so long a period as one year is deplorable." Cancer of the breast, like cancer of the skin, is one of the organs or parts of the body most amenable to early treatment. Yet it has been the experience, in this country at least, that there is more delay in cancer of the breast than in many other forms of cancer. The British report considers such questions as the age of the patient coming for treatment, age and results, occupations pursued by patients suffering from cancer of the breast, the relation of child-bearing to breast, the relation to breast-feeding to its incidence, and many other matters which, as I have said before, cannot be summarized for the present purpose. An exceedingly valuable discussion of every phase of the subject is contained in Duncan C. L. Fitzwilliam's treatise on the "Breast," published in St. Louis, 1924. On the question of prognosis and operative mortality, Fitzwilliams remarks that "one would expect, with the recent extensions of this operation, immense extent of the wound surface, and the nearness to the trunk, that the mortality might well be considerable. It is surprising to find, therefore, that it is almost negligible. Rodman gives it as one per cent. in 2,133 cases operated upon by twenty-one different surgeons. In Judd's series of 609 cases the mortality was five per cent., and in no case was shock the cause of the death." In his own records there was only one fatal case.

With particular reference to prognosis he observes: "Carcinoma of the breast, if left untreated, generally causes death within three years of the time it is first diagnosed." He points out that "in the majority of cases it could, might, and should have been diagnosed at least a year earlier, and if operated upon at that time the disease could have been eradicated totally in about 75 per cent. of the cases." In a general way, he states that "the operation has become more and more thorough and at the same time more extensive, until now it has reached its limits and has even receded in extent from the operation at one time advocated by Halstead, namely, clearing out the supraclavicular glands in all cases, a procedure which is now recognized as unnecessary in every case. With each advance there has been a slightly better outlook for the patient, until matters have come to a standstill, and it is probable that no very great advance can be made by means of operation, and we return again to what has already been stated-that a better prognosis can now only be brought about by earlier diagnosis."

An excellent report on tumors of the breast was presented to the New York Surgical Society in 1922 by Peck and White, who considered 331 cases of tumor of the breast, of which 136 were benign and 195 malignant. Of the malignant cases follow-up reports were obtained for 118 patients. Of these 59 were dead or alive at recurrence, 53 were alive at the present time, while 27 of the latter had passed the five-year mark. There were six post-operative deaths while the patients were still in the hospital. The authors point out that the history of the length of time the tumor had been observed has been found to be of little help and that the same has been said of the lack of retracted nipples, adhesions to the superficial or deeper tissues, palpable axillary lymph-nodes, pain and tenderness or history of trauma. Presence of retracted nipples and adhesions to the superficial tissue, as shown by the orange-peel appearance, on the contrary, are of great help. Axillary nodes are often palpable in benign tumors and often not palpable in malignant tumors. The sense of hardness is often of some help, while multiple primary nodules rather point toward a benign condition, but not absolutely so. They had found no case of malignant tumor in a patient under 25 years of age, but say that in the presence of absolute signs they would not hesitate to do a radical operation in a young woman under that age. Of the 195 cases, 57 had retracted nipples, 16 had ulcerated skin areas, 94 cases showed adhesion to the skin, 31 cases showed adhesion to deep muscles. 9 cases showed multiple nodules. 77 cases showed palpable axillary nodes, 109 cases showed axillary nodes involved at the time of operation, 70 cases had lactated previously, 68 cases had not lactated previously, 15 cases gave a history of previous trauma, and 15 cases complained of pain and tenderness. There was only one male in the series under review.

Regarding the type of disease it is said that 78 cases were classed adenocarcinoma, 53 cases as scirrhous carcinoma, 58 cases as medullary carcinoma, two cases as Paget's disease, and four cases as sarcoma. Of the 59 cases traced which died or had recurrence 48 cases had axillary glands involved at the time of operation while 11 cases had no axillary gland involvement. Of the 53 cases now alive and well, 17 cases had axillary glands involved, but 10 of these had been well more than five years; 36 cases had no axillary involvement, and of these 17 were well more than five years. They add definite information concerning 69 cases operated upon more than five years ago. Of these 42 were dead and 27 alive. They, therefore, conclude with the statement that a study of this group shows that their percentages correspond closely with those by Sistrunk and McCarty in the Annals of Surgery for January, 1922. Of their 69 cases 39 per cent. were alive and well more than five years, of cases of metastases 23 per cent. were alive and well more than five years, but of cases without metastases 65 per cent. were alive and well more than five years.

To the foregoing add some recent statements by Haggard and Douglas of Nashville, Tenn., reported in the *Journal of the American Medical Asso-* ciation for February, 1923, representing 255 histories of breast lesions covering a period of 11 years. Their findings are summarized in the following statement.

"(1) No malignant tumor of the breast occurred in a woman under 27.

"(2) The average age of patients with cancer of the breast was 49.2 years.

"(3) In cases of recurrent carcinoma, the patients were five years younger than in the primary cases.

"(4) All sarcomas occurred in males, and constituted 2.4 per cent of the malignant cases.

"(5) In only one-third of the malignant cases was there a family history of the cancer.

"(6) In two-thirds of the cases in which the lesions were benign the patients gave a positive family history for cancer which probably caused them to apply for examination even though their lesions were benign.

"(7) The average duration of cancer before operation was $26\frac{1}{2}$ months.

"(8) One case in five was inoperable.

"(9) Patients with benign lesions had an average age of 36.1 years, which was thirteen years younger than in the malignant cases.

(10) The average duration was fourteen months, as against 26.8 months for carcinoma cases.

"(11) From five to ten year cures in 111 traced cases of operations for cancer of the breast occurred in 45.7 per cent.

"(12) The preventable surgical mortality was 0.8 per cent."

Regarding the rarity of cancer in men, a statement may be quoted from the Polyclinic of Rome, to the effect that five cases of male breast cancer had been observed in 320 cases of mammary cancer in the public hospital at Venice. The age of these cases range from 56 to 80 years.

For this country the most useful summary of the results on cancer operations have been presented by Dr. Robert B. Greenough of Boston, in the Section of Surgery published in the *Southern Medical Journal*, March, 1925. The general conclusions by Dr. Greenough are summarized in the following statement:

"The results are not so favorable as could be desired, but they appear to show that X-ray as it was then given at that hospital in prophylaxis against recurrence after radical operation was of relatively little value; and that the earlier the disease is discovered and the more extensive the operation for radical cure the better the results. A certain small proportion of cases of breast cancer are probably from the beginning of so malignant a type that our present methods of treatment are quite inadequate to cope with them; but the majority of cases are more favorable and can be cured if only they can be discovered and given radical surgical treatment in the early and favorable stages of the disease." I may also point out that the average duration of the disease as far as . known was 7.5 months, 39 cases with a duration of over 7.5 months and 26 per cent. cures, while 52 cases with a duration of less than 7.5 months yielded only 23 per cent. cures. The difference, however, is not sufficiently striking to justify far-reaching conclusions.

CANCER OF THE UTERUS

Cancer of the uterus shows the highest incidence among the colored population of New Orleans, where the rate reached 52.9 per 100,000. This rate, however, is not in strict conformity to the known facts regarding the present-day exceptional liability of colored women to uterine fibroids as well as uterine malignant diseases.

The next highest rate prevails in Albany, or 33.8 per 100,000, followed by San Francisco with a rate of 33.7 and the white population of New Orleans with a rate of 32.0. For Boston the rate was 30.7, for Chicago 26.0, and for Buffalo 20.6.

It is regrettable that the mortality returns for cancer of the uterus should not differentiate cancer of the cervix and cancer of the fundus, for the two affections are unquestionably due to different causative conditions demanding special consideration. Scholten and Voltz report the results of radium and Roentgen treatment of patients with gynecologic cancer as follows:

"Doderlein has not been operating for uterine cancer since 1912. Of the 313 carcinomas of the cervix admitted to the clinic in 1918 and 1919, forty-two were absolutely hopeless. The rest were irradiated. Of the total, 12.4 per cent. are healthy after five years of observation—that is, 14.3 per cent. of those who were treated. Of the 37 patients who were operable, 16 are cured. Of the other cancers, the best results were obtained in cancer of the body of the uterus; 7 have survived out of 13 patients. They are confident that these results will be still further improved by certain changes in the technic introduced lately. They irradiate the pituitary region, and observed a lower mortality and marked increase in weight. The production of rays has been also improved, and the irradiation is done in a closed chamber so that the patient breathes pure air."

Heusinkveld has reported a case of a young unmarried woman of 20 who had a typical carcinoma of the glandular portion of the cervix. She died five years after operation. An important contribution to statistical uterine operation was contributed to the *Journal of the American Medical Association* under date of August, 1925, having reference to results presented to the Vienna Medical Society in regard to 1,500 cases of cancer, in which the Wertheim operation had been employed. Of 87 incipient cases 98 per cent. survived the operation, of 53 mild cases 61 per cent., of 28 severe cases 34 per cent., and of 14 very severe cases 19 per cent. Only 51 per cent. of all the cases were operable. The primary operative mortality was steadily reduced from 16 per cent. in the first 1,000 cases to 8 per cent. in the next 500 cases, or at present in the incipient cases it is only 3 per cent. It is pointed out that statistics show that cancer of the cervix in young married women has no worse prognosis than formerly. The conclusion is to the effect that the value of the abdominal radical operation for carcinoma of the cervix is now definitely established. No marked improvement in the percentage of cures can be expected. The primary operative mortality, however, may be further reduced. It is to be assumed that the term "cure" means a period of five years, although this is not stated in the account referred to.

One of the most important of the recent contributions to cancer of the cervix is by Sidney Forsbach, published in the British Medical Journal of July 19, 1924. He observes that "it is a curious fact that cancer of the womb is very largely a disease of the hospital class of patient, who have large families and are more prone to suffer from neglected infections than the well-to-do class. In addition to which, environment, malnutrition, and alcoholism play no small part in depriving the organism of the natural power of resistance." In 200 cases of cancer of the cervix there was no evidence of hereditary influence. The incidence of nulliparous women was 12 per cent. Twenty-seven of these cases had undergone some form of operation. Reference is made to early cases, it being stated that "if surgery were limited to them the operative mortality would be as low as 6 to 7 per cent., and a curability rate of 70 to 75 per cent. of operated cases would probably be obtained." Borderline cases, where one or both broad ligaments are infiltrated and there is some fixation of the uterus, and where the growth may involve the vaginal wall or the patient may have a persistent frequency of micturition, are reviewed at some length as follows:

"Baum: Of 81 borderline cases 29 per cent., and of 127 advanced cases 7 per cent., were free five years later.

"Doderlein: Of borderline cases 36 per cent., and of advanced cases 11 per cent., were free five years later.

"Kelly, who classifies these two groups as inoperable, had 69 cases (21 per cent.) free from disease, 7 of which were for five years and over.

"Heyman: Of 26 inoperable cases, 7 (27 per cent.) were free five years later.

"Adler: Of 52 inoperable cases, 13 (25 per cent.) were free five years later.

"Van Seuffert: Of 62 inoperable cases, 14 (22.6 per cent.) were free five years later.

"Burrows: Of 100 inoperable cases, 6 (6 per cent.) were free from three and a half to four years later."

There is extended discussion of treatment by radiation and postoperative radiation which cannot be reviewed to advantage with the required brevity. It is said however that, clinically, radium is suitable for 90 per cent. of the advanced cases. With particular reference to 50 cases of cancer of the cervix treated by radium and colloidal copper, it is said that out of 50 cases 38 were dead and 12 are living. All the 12 living are well and free from symptoms of recurrence. The duration of observed post-radiation results have been from about three years to nine months. The entire discussion is summarized in the following statement:

"1. That for cases of carcinoma clinically limited to the cervix the only treatment is operative;

"2. That for cases which have clinically invaded the pericervical tissues the treatment is by radium to the cervix and X-rays to the pelvic tissues;

"3. That salts of copper play an important though subsidiary part in treatment by radium;

"4. That pre- and post-operative irradiation is of considerable value."

Another important contribution to the subject is a paper on "End Results of the Treatment of Cervical Carcinoma with Radium and Roentgen Rays," by Dr. Henry Schmitz, Chicago. Regarding an experience, during 1914-1923, of 450 patients with carcimona of the uterine cervix, 345 of these had primary carcinoma and 104 had a recurrence. Of 450 cases 41.5 per cent. occurred between 46 and 55 years of age. The number of women who had been sterile was 14.8 per cent. in cases of cancer of the cervix, against 18.3 per cent. for the general population. Cases of primiparas formed 19.5 per cent. in cancer of the cervix against 14 per cent. in the general population. It is, therefore, said that "the incidence of the number of pregnancies has been of especial interest. The generally accepted fact that women with many children have cervical carcinoma more frequently than women with few or no children is not borne out by our observations." There is also the following interesting observation regarding cancer of the uterus among Jews, but they are not based on recent observations of the Jewish population in this country:

"Considering the significance of the most prominent symptoms of cancer of the cervix it was found that in 61.5 per cent. there has been hemorrhage and in 14.7 per cent. discharge, while pain was present in 20.1 per cent. of the cases and loss of weight had been observed in two per cent. End results are reported as follows: The percentage of cures for the threeyear period are 21 per cent. for the 175 primary cases and nine per cent. for the 75 recurrent cases. Collective statistics for the surgical treatment of cervical carcinomas based on the same method of procedure as that employed in those for radiation treatment show permanent cures of about 25 per cent." To test this conclusion the authors present some collective statistics of five-year cures for cervical carcinoma treated with radium or with radium and X-ray representing 1,480 cases, of whom 14.2 per cent. were living after five years. A larger proportion was reported by Kehrer, or 27.8 per cent., using radium alone. The percentage operability and relative and absolute curability of cervical carcinomas for different methods of treatment are summarized in another table as follows: Radium only, Clark 8.6 per cent., Bailey and Healy 9.2 per cent., Kehrer 27.8 per cent., radium and Roentgen rays, Doderlein 13.2 per cent., Baisch 14.1 per cent., and Schmitz 14.6 per cent; surgery only, Johns Hopkins 26.6 per cent., Stoeckel 26.6 per cent., and Graves 18.5 per cent. The general observations are summarized in the statement that, "radium and X-ray are very efficient agents when judiciously applied either alone or in a very selected group in combination with surgery; (2) the first examining physician must realize his responsibility in immediately restoring these patients to health. All irregular menstrual phenomena and vaginal discharge, regardless of its character and the age of the patient, demand a most careful examination in order to determine the cause. In the early cases we have a definite procedure to offer both patient and surgeon."

An extremely valuable discussion of carcinoma of the cervical uterus including a review of 100 cases with a special reference to predominating type of cell by Pomeroy and Strauss, reported in the *Journal of the American Medical Association* for October 4, 1924. The address is suggestive of a great practical value of determining accurately the degree of malignancy with reference to results of different methods of treatment.

The relative proportion of cancer of the uterus, or, respectively, of the fundus and of the cervix, is indicated in a paper by Frankl, reported in the *British Medical Journal* of August 29, 1925. The results are based on experience in Gynaecology between 1908 and 1923. There were 1,878 cases of myoma and 45 of sarcoma. Out of 1,036 cases of carcinoma, 919 were of the cervix and 117 of the body of the uterus. In 72 cases myoma and carcinoma existed concurrently, 62 being cervical cancers and 10 cases of cancer of the body.

The foregoing is amplified by an expression by Davis in the Annals of Surgery for July, 1925. With particular reference to carcinoma of the body of the uterus, David points out, "the growth usually appears as papillary or polypoid outgrowths into the cavity, causing some enlargement of the uterus; it tends to invade the body of the uterus and serosa, with secondary involvement of the ovaries and tubes. The average age of the patients was 54, and nearly 70 per cent. had passed the menopause over a year. The chief symptoms were hemorrhage and discharge, frequently accompanied by colicky pains; he states that these symptoms occurring after the menopause are pathognomonic of the condition." A collective review of the recent literature on the treatment of cancer of the cervix and the question of radium operation was published in the American Medical Journal on "Obstetrics and Gynaecology," for July, 1925.

In this country it is pointed out that primary operative mortality ranges from 8 to 20 per cent. against 5 to 11 per cent. for Europe. Pollock considers 10 per cent. a fair average in the hands of competent surgeons. Thirty per cent. of cures after each five-year period is about all that can be claimed for the radical operation, even by the best American surgeons. He considers it unfair to superficially compare operable results.

For example, he states that "of 100 cases of cancer of the cervix applying for operative treatment, at most only 50 can be accepted as operable and five will die of the operation, so that out of 45 survivors after operation about 14 can be expected to survive the five-year period. Consequently only 14 are alive at the end of the five years. With radium, however, all of the 100 cases will be accepted for treatment, and of this number you can expect at least 95 to be alive at the end of five years with practically no mortality. He quotes from an address by Ward before the American Association, 1925, reporting upon all cases of cancer in stages which have received radium treatment at the Women's Hospital, including both the operable and inoperable cases, showing 25.9 per cent. to be living at the end of the five years, while out of the operable 52 per cent. were alive after five years. He therefore admits that radium alone or in conjunction with X-ray therapy is a measure which is now expected for the complete and permanent cure of cervical cancer, and that there is sufficient accumulative evidence to show that this treatment has been entirely satisfactory.

Table N

CANCER OF THE UTERUS-FEMALE

	Rate per 100,000 Population
New Orleans (colored)	52.9
Albany	33.8
San Francisco	33.7
New Orleans (white)	32.0
Boston	30.7
Chicago	26.0
Buffalo	20.6

CANCER OF THE OVARIES

Cancer of the ovaries exists to the extent of 5.5 per 100,000 for Albany, followed by a rate of 5.0 for Boston, 3.6 for San Francisco, and 3.5 for Chicago. The rate for the colored population of New Orleans was 2.9, Buffalo 2.8, and for the white population of New Orleans 2.4.

Ovarian cancers on the basis of British statistics are stated to be much more common among the unmarried than among the married. The facts revealed in this respect by my investigation on the basis of living cancer patients are not yet available for discussion. Hastings Gilford, referring to this subject, points out that "according to official returns for England and Wales, up to the age of 45 cancer of the breast is as common among the married as it is among the single, but after that age the single suffer more than the married by as much as 45 per cent. So also deaths from cancer of the ovaries are twice as frequent among the unmarried. On the other hand, deaths from cancer of the uterus among the married are 73 per cent. more than among the single. But in this case too it is the mortality of the single which increases relatively to that of the married with the advance of age. The usual and most likely explanation is that cancer of the uterus is much more common among the married because of the greater exposure of the neck of the uterus to injury during child-birth, and afterwards to septic infection. But apart from this increased incidental liability of the married, all the statistics point to a greater total liability of the unmarried. Stevenson has pointed out that, owing in part to the falling birth-rate, the mortality from cancer of the breast is rapidly increasing, while that from cancer of the uterus is diminishing, for "it would appear that child-bearing increases the risk of uterine, and diminishes that of the mammary cancer, and it is therefore only to be expected that the present decrease in fertility should be accompanied by an increase in mammary but not in uterine cancer."

Hastings Gilford quotes Deelman, who has given particular attention to this subject in Holland, to the effect that "among 601 women with uterine cancer, 571 were married and 30 unmarried. Of 48 cases of cancer of the body of the uterus 31 per cent. were mulliparae, and the others averaged only 2.8 children each. Of 553 women with cervical cancer, only 5.2 were mulliparae, and the rest averaged five children each. Hence there were six times more nulliparous women among those with fundal cancer than among those with cervical cancer." There is possibly no more important phase of the cancer problem as it concerns women than in these discussions of cancer of the female generative organs in their possible relation to childbearing and birth control. Unfortunately most of the evidence is as yet fragmentary, while much of it is contradictory and inconclusive. The subject is complicated by non-malignant ovarian tumors, which may vary from 0.5 to 30 cm. in diameter. In these, of course, malignant degeneration may occur.

Cameron, in a paper on malignant disease of the ovaries and fallopian tubes, reported in the *British Medical Journal*, August 29, 1925, gives the youngest case of carcinoma of the ovaries as having been 19 years of age. But Potter has reported a patient as young as 18 years of age. In this case a tentative diagnosis of appendix abscess had been made. When operated on a solid tumor was found, growing from the left ovary, extending to and enveloping the right. On microscopical examination the tumor proved to be sphereoidal-celled carcinoma. On the other hand, cases of malignant ovarian tumors have been reported in the aged.

In my series of San Francisco cases I find that the youngest death from cancer of the ovaries was 24 while the oldest was 71, and for all of the 37 cases the average age at death was 51 years. In 16 cases for Albany, N. Y., the youngest age was 42 and the oldest 73, while the average age was 57.9. In 18 deaths from cancer of the ovaries for the white population of New Orleans the youngest age was 24 and the oldest 75, while the average age was only 44.8 years. In eight deaths of cancer of the ovaries in the colored population of New Orleans the youngest was 30 years of age, the oldest 52, while the average age at death was 40.5 years.

According to Hastings Gilford, "of the results of surgical operations on ovarian cancers, the newest figures are those of Schafer of Berlin. Among 99 women operated upon from five to ten years before his paper was written, 13.3 per cent. have had no recurrence; 64 per cent. of these cancers were bilateral, seven were metastatic to stomach cancers, and nine to uterine."

Table O

CANCER OF THE OVARIES—FEMALE

	Rate per 100,000 Population
Albany	5.5
Boston	5.0
San Francisco	
Chicago	3.5
New Orleans (colored)	2.9
Buffalo	
New Orleans (white)	2.4

CANCER OF THE VULVA AND VAGINA

Cancer of the vulva and vagina prevailed at the rate of 1.4 per 100,000 among the female population of Boston, 1.1 among the colored female population of New Orleans, 0.9 among the white population of New Orleans, 0.8 in Buffalo and Chicago, and 0.6 in San Francisco, while no deaths from this affliction were reported for Albany.

For the male population the one form of cancer above all others peculiar to the sex is cancer of the prostate. The rate was highest for Albany, or 13.0 per 100,000, followed by San Francisco with a rate of 9.1, Boston 7.8, Chicago 6.3, the white population of New Orleans 6.1, Buffalo 5.9, and the colored population of New Orleans 1.6.

Cancers of the vagina and vulva are relatively rare. In my San Francisco series of cases I find that there were seven deaths during the four years ending with 1923, ranging in age from 37 to 74 years with an average age of 58.9 years. There were no cases of this type in my Albany investigation, representing 398 deaths from cancer among women during the five years ending with 1923. In my New Orleans investigation among the white population there were seven deaths of cancer of the vagina and vulva ranging from 30 to 71 years of age and having an average age of 54.3 years. There were only three deaths among colored women dying at an average age of 48.7 years. Referring to the results of Bunn's experience with 400 cancers of the reproductive organs treated by operation or by mesothorium or radium between 1913-1915, Hastings Gilford states with reference to cancer of the vagina that 22 per cent. were cured, quoting Bunn to the effect that "he advises operation in cancer of the breast, vulva, ovary and fundus uteri, followed by radiation, and radiation only in cancers of the vagina and urethra, and also in cancers of the cervix, if early and the patient is in good condition."

He also refers to the precancerous condition of the vulva, but it being chiefly complicated by leukoplakia. Radium in such cases, he observes, is sometimes effective.

CANCER OF THE PROSTATE

In a discussion of the blocking of the lymphatics in the control of carconoma of the prostate gland, Dr. Robert H. Herbst, in the *Journal of the American Medical Association* for May 7, 1924, takes occasion to remark that "we do not know any more about the cause of cancer of the prostate than we do about cancer occurring in other organs. We do know, however, that at least 20 per cent. of all neoplasms of this gland are malignant." He refers to results obtained by Thomas and Pfahler, who handled bladder and prostatic cancer by a combination of surgical care, electro-coagulation, radium exposure and Roentgen-ray treatments. Following a review of literature supplemented by his own, Dr. Herbst concludes that the treatment of carcinoma of the prostate resolves itself into a consideration of the following problems:

(1) The control of cancer; (2) the relief of urinary retention; and (3) the obtaining of the best possible function after the cancer has been controlled. Herbst also observes "that the failure to control the disease in the past has been due, at least in some instances, to the haphazard introduction or application of radium to the malignant prostate. A knowledge of the lymphatic circulation, together with the establishment of good drainage of the urinary tract is essential to success in the control of the disease. Accuracy, coupled with attention to detail, is as important in the control of cancer of the prostate as in any other surgical procedure.

An important discussion on the incidence of malignant disease in the apparently benign and enlargement of the prostate, by Dr. R. H. Joslin Swan, reported in the *Lancet* of November 3, 1923, includes the tabulation of prostates removed by operation during the last ten years and submitted for pathological examination. Out of 678 cases 25.7 per cent. were definitely malignant, 8.6 per cent. borderline cases, apparently precancerous, 65.3 per cent. were innocent adenomas, and 0.4 per cent. were tuberculosis. He also quotes Dr. H. Wade of Edinborough, who in 1914, had found in 134 specimens of enlarged prostates that 14 were carcinomatas. He implies that malignant conditions are more common than generally observed. Combining results from different sources aggregating 262 cases, malignant disease was found present in apparent enlargement in 34 cases, of 12.9 per cent.

Hastings Gilford observes in this connection that the organ peculiarly liable to senile hyperplasia which occasionally undergoes further change into cancer is a prostate gland. He quotes Hertzler to the effect that "the

appearance of the senile enlarged prostate and its change into malignancy 'closely resemble those of parenchymatous hypertrophy of the female breast. and the same precautions are necessary in arriving at a conclusion' as to the occurrence of cancer." He also quotes Ewing, who, after referring to the myomas and adenoma-like formations which may grow in the degenerated tissue of enlarged prostates, writes that "the alveoli sometimes becomes filled with typical large or small hyperchromatic cells and in this way carcinomas are found. Such adenocarcinomas occur in socalled hypertrophied prostates of elderly men to an extent which is variously estimated at from 5 per cent. to 14 per cent." The average age at death in cancer of the prostate in my San Francisco cases was 64.2 years, ranging however from 32 to 82 years. This average is based on 107 deaths. In my Albany cases of 35 deaths from cancer of the prostate the average age at death was 68.6 years, ranging from 46.8. The disease was relatively much less common among the white population of New Orleans, where there occurred 45 deaths during the period under observation, at an average age of 66.8 years, ranging from 37 to 79 years. The disease was decidedly increasing among the colored population of New Orleans, there having been four deaths, at an average age of 68.2 years.

MALE GENERATIVE ORGANS

Cancer of the male generative organs has been very rare in all of the cities under review. For Boston the rate was 1.2 and for San Francisco the same, for Albany the rate was 1.1, for Buffalo 0.4, for Chicago 0.9, for the white population of New Orleans 0.6, for the colored population of New Orleans 2.8. A new significant fact brought out is the much greater liability of the colored male population to cancer of the generative organs than the white population. It is quite probable that further investigations will reveal a similar increased liability on the part of Orientals. The number of deaths involved at the present time do not justify definite conclusions.

RACIAL FACTOR IN NEW ORLEANS

The foregoing rather extended considerations clearly emphasize the differential liability of the two sexes, proving conclusively that for most forms of cancer not peculiar to the sex the rate is higher for the male than for the female population, while for most important forms of cancer the rate is highest for San Francisco.

Since the race factor is somewhat obscured in the preceding statements, essential facts of the situation may be briefly reviewed.

For New Orleans the male rate for the white population for all forms of cancer is 106.0 per 100,000, while the colored rate is 79.8. For females, however, the rate for the white population was 119.0, while for the colored population it was 126.4.

For cancer of the stomach the white male rate was 27.3 and the colored rate 29.0. The white female rate was 18.8 and the colored rate 18.9. In

other words, cancer of the stomach prevailed at almost precisely the same rate among each sex irrespective of race.

Cancer of the liver and gall-bladder prevailed at the rate of 9.3 among the white population, against a rate of 12.7 for the colored. The white female rate was 11.3 and the colored rate only 5.7.

Cancer of the mesentery and peritoneum prevailed at the rate of 0.9 among the white male population while the colored rate was 1.2. For the female population the rate was 1.9 for the whites and 1.1 for the colored.

Cancer of the intestines prevailed at the rate of 5.4 among the white population and 5.3 among the colored, while among the female population the rate was as high as 8.0 among the whites, against 5.4 among the colored.

Cancer of the rectum and anus prevailed at the rate of 2.0 among the white male population and 4.0 among the colored. There was likewise a marked excess among the females for this form of cancer, the rate having been 3.9 for whites and 8.2 for the colored.

Cancer of the oesophagus prevailed at the rate of 3.2 for the white male population and only 0.4 for the colored. The rate for the white female population was 0.5, and there have seen no deaths from this cause among the colored.

Cancer of the skin prevailed at the rate of 0.9 among the white male population and 1.2 among the colored. The rate among the white female population was 0.4, and there have been no deaths from this cause among the colored.

Cancer of the lungs and pleura prevailed at the rate of 3.8 among the white male population and 0.4 among the colored. The rate for the white female population was 1.7 and 0.7 for the colored. Cancer of the lungs and pleura was decidedly more common among the whites than among the colored.

Cancer of the pancreas prevailed at a rate of 1.2 among the white males and 0.4 among the colored. The rate for the white females is 0.5 and for the colored females 0.4.

Cancer of the kidneys prevailed at the rate of 1.4 among the white male population and 0.4 for the colored population. The white female rate was 1.2, while there were no deaths from this affliction among the colored.

Cancer of the bladder prevailed at the rate of 6.5 among the white male population and 6.3 among the colored. The rate for the white female population was 2.1 and 1.4 among the colored.

It is thus shown that cancer of the pancreas, kidneys and the bladder was decidedly more common among the white population than among the colored.

Cancer of the bones prevailed at the rate of 1.9 among the white population while the rate was 3.3 for the colored population. For females the rate was 2.9 for the white population and 3.6 for the colored. This type

of disease therefore prevails decidedly more among the colored than among the whites.

Cancer of the uterus prevailed at a rate of 32.0 among the white population against 52.9 for the colored. This is unquestionably the most pronounced racial difference among the various forms of cancerous afflictions.

Cancer of the ovaries occurred at the rate of 2.4 among whites and 2.9 among the colored population.

Cancer of the vulva and vagina occurred at the rate of 0.9 among the white and 1.1 among the colored population.

Cancer of the female breast occurred at the rate of 16.8 among the white and 18.8 among the colored population.

Cancer of the prostate prevailed at the rate of 6.1 among the white male population, against a rate of 1.6 for colored males. These rates show that this form of cancer is decidedly more common among the white population.

Cancer of the male generative organs prevailed at the rate of 0.6 among the white population and 2.8 among the colored. This form of disease is also more common among the colored at the present time than among the whites. It should perhaps have been pointed out in this connection that the foregoing contrasts of sexual and racial differences in cancer liability are based on the following number of actual deaths thus far concerned in the investigation. The total number of certificates was 9,592. Of this number 840 were from Albany, N. Y.; 405 from Buffalo; 3,163 from Chicago; 681 for the white population of New Orleans; 549 for the colored population of New Orleans; and 3,294 for San Francisco.

It has been my intention to review some further aspects on the cancer problem as revealed by the San Francisco cancer survey, but it is reserved for some future occasion. The survey at the present time includes nearly 20,000 death certificates, and the outlook is that by the end of 1926 nearly 30,000 certificates will have been dealt with. Nor have I been able at the present time to review the material collected by means of questionnaires, of which approximately 2,000 have now been returned to me. I have found this method of exceptional value, though much depends upon the continuity of my efforts to enlarge the plan and scope of the investigation to make it representative for both this country and Canada.

In conclusion I may add that I purpose in the near future to consider with reasonable thoroughness the cancer problem in the Republic of Mexico, with particular reference to occurrence of malignant diseases among different racial elements in different parts of the republic. It is possible that this investigation may be extended to Guatemala and British Honduras. For the time being I am merely presenting the statistical results of my investigations which aim at the collective impartial presentation of available cancer facts. Only those who have for many years been concerned with investigations of this kind can realize its burdensome and time-taking effort in doing justice to every aspect of the problems under consideration. We are not at the end of our cancer investigations, but only at the beginning. Irrespective of whether a cancer cause or a cancer cure should be discovered, the problem of cancer occurrence will remain with us for generations to come. I firmly believe in the light of my own investigations that the cause of cancer control is served best by those who in season and out draw attention to the lamentable delay which intervenes between the earliest known onset of the disease and its qualified treatment with the hope of a cure.

Summary of general conclusions: The foregoing discussion represents some of the general results of my San Francisco Cancer Survey and of cities and sections assisting in the investigation. They are all, for the time being, tentative and are subject to amplification and modification in the light of future results, which will be forthcoming in due course of time. I would fail if on this occasion I did not express my profound appreciation of the extraordinary courtesies extended to me by the health officers, medical practitioners, surgeons and others who have aided me in this investigation. It aims at the presentation of collective results which will facilitate the development of fundamental principles of cancer frequency throughout the United States and later on possibly of Canada and Mexico. For the time being the results chiefly emphasize the supreme importance of the time factor in the treatment of malignant diseases, which is often a lamentable failure because of the long delay intervening between the onset and the gualified consideration of cancerous affections. Irrespective of whether a cancer cause is discovered or is specific for the treatment of malignant disease, the problem will remain with us for many years to come, and in all probability increase in importance in proportion to other affections unless present-day tendencies are in this direction materially modified. The only hope for such a modification rests upon the better instruction of the laity and the medical profession as regards the imperative necessity for the earliest possible diagnosis and the earliest qualified treatment for all tumor formations, whether benign or malignant. The delay in this respect which is now characteristic of most of the cancer deaths is a lamentable indication of our failure to bring the truth of the cancer situation home to all concerned.



