#### Contributors

Vale, Frank Palmer, 1871-Augustus Long Health Sciences Library

#### **Publication/Creation**

Providence : Snow & Farnham, 1908.

#### **Persistent URL**

https://wellcomecollection.org/works/e67g3rvt

#### License and attribution

This material has been provided by This material has been provided by the Augustus C. Long Health Sciences Library at Columbia University and Columbia University Libraries/Information Services, through the Medical Heritage Library. The original may be consulted at the the Augustus C. Long Health Sciences Library at Columbia University and Columbia University. where the originals may be consulted.

This work has been identified as being free of known restrictions under copyright law, including all related and neighbouring rights and is being made available under the Creative Commons, Public Domain Mark.

You can copy, modify, distribute and perform the work, even for commercial purposes, without asking permission.

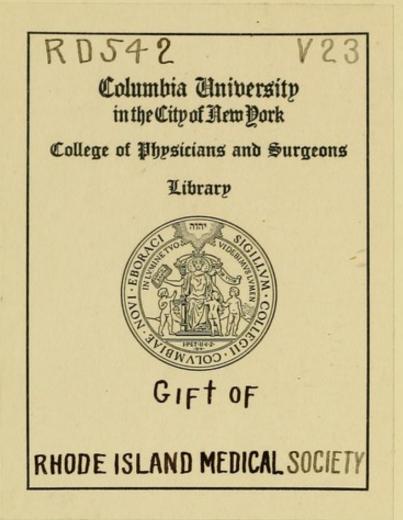


Wellcome Collection 183 Euston Road London NW1 2BE UK T +44 (0)20 7611 8722 E library@wellcomecollection.org https://wellcomecollection.org



# HAS SURGICAL TREATMENT LESSENED THE MORTALITY FROM APPENDICITIS

VALE



Digitized by the Internet Archive in 2010 with funding from Open Knowledge Commons

http://www.archive.org/details/hassurgicaltreat00vale



FISKE FUND PRIZE DISSERTATION. NO. LI.

1

# Has Surgical Treatment Lessened

Mortality from Appendicitis?

#### MOTTO:

" Calyatatantravid."

BY

FRANK P. VALE, M. D., WASHINGTON, D. C.

PROVIDENCE : SNOW & FARNHAM COMPANY, PRINTERS. 1908.

• RD 542 V23

THE Trustees of the Fiske Fund, at the annual meeting of the Rhode Island Medical Society, held at Providence, May 28, 1908, announced that they had awarded a premium of two hundred (\$200) to an essay on "Has Surgical Treatment Lessened the Mortality from Appendicitis ?" bearing the motto:

"Calyatatantravid,"

The author was found to be FRANK P. VALE, M. D., of Washington, D. C.

DR. FRANK B. FULLER, Providence, DR. EUGENE KINGMAN, " DR. A. A. MANN, Central Falls.

Trustees.

HALSEY DEWOLF, M. D., Providence,

Secretary of the Trustees.



# HAS SURGICAL TREATMENT LESSENED THE MOR-TALITY FROM APPENDICITIS?

#### INTRODUCTORY.

In discussing with Dr. . . . . his essay on . . . . , which was awarded the Fiske prize for . . . , he called my attention to the above theme propounded by the trustees of the prize for 1908. The stamp of approval given by custom is such, one is almost astonished at the question; it seemed so difficult to answer with indubitable evidence — however great one's confidence in the surgical treatment of appendicitis — I dismissed it from my mind; it recurred, nevertheless, and some of the associated ideas brought the desire for an answer, if one is now possible.

A large part of the operating seen in our surgical clinics is on the vermiform appendix; this impression is abundantly confirmed by the compilations I have made from available hospital reports, showing that in the United States, since the year 1890, of 239,986 major and minor operations performed in 23 hospitals, no less than 26,044, or 10.8%, were on account of this useless appendage of the digestive tract. It is difficult to conceive that all this work represents misdirected energy, from the standpoint of mortality; yet some believe there is much unnecessary operating in every department of surgery, that in a way the ability to operate recently acquired through anesthesia and asepsis, has conferred a license to operate; is it possible we are now on the crest of a wave of enthusiasm for operative surgery, which will in time subside to a more stable level? Reflection reminds us that the history of the advance of medicine has been over enthusiasm in first one direction and then another, followed by the inevitable reaction. We please our vanity with the expression "modern," as did our predecessors of one hundred years ago in bleeding for every disease, and those of fifty years later in transfusing almost as indiscriminately.

We need surgeons and true specialists to blaze new trails. Restriction of one's field of endeavor makes one expert, but may narrow the horizon: "La tendance à la specialisation s'est accrue, dans ces dernières années, d'une manière inquiétant pour la sécurité du public, et le titre de spécialiste, loin de consacrer une superiorité, est arrivé à n'être bien souvent qu'un brevet d'ignorance. Combien de docteurs en effect en renonçant à la médicine générale, ne cherchent autre chose dans une spécialité, qu'un champ d'études plus facile et mieux rémunerée." (Doyen [2].) Doyen and other surgeons, one a teacher of surgical pathology (3), believe that among the many and increasing requirements, every surgeon in the future will be his own pathologist: may not every physician, i. e., 'every pathologist, be in large part his own surgeon? Certainly if operative work continues to increase as it has in the past twenty-five years, and if, for example, every case of appendicitis is to be operated as soon as the diagnosis is established, with a continued increase in this disease,\* such would in time be a natural result. It is immaterial whether surgery absorbs medicine or vice versa, their divorce of past centuries is being nullified, as shown for instance in the latest sub-specialty, the "Operating neurologist" (1). The subject before us, the treatment of appendicitis in certain of its aspects, illustrates an advantage which would accrue from the more perfect union of physician and surgeon : the latter recommends immediate or early operation because of its relative simplicity and avoidance of dreaded complications with which his art is unable to cope; the physician rejects immediate and routine operation because of the many recoveries in his experience under medical care — in too long delaying early operation he may, however, evidence lack of appreciation of the surgical opportunity. It has been said that in this day every physician must think surgically, but it is equally obvious every surgeon should be first and foremost a good physician. There must be found some point of vantage from which medicine can be viewed as a whole; if specialism develops without such means

<sup>\*</sup> Toft's post-mortem findings, every third subject showing evidence of present or past inflammation in the vermiform appendix, with actual ulceration in 5%, indi cates a possible limit. Quoted by Fitz.

for its assimilation one hundred years from now a corps of specialists will hover over each patient. The literature of medicine is rapidly becoming difficult to digest in any particular branch, not to speak of its entirety. Since 1896 there are indexed in the Catalogue of the Surgeon General's Library at Washington 295 monographs, including graduating theses, and 3,616 journal articles on the subject of perityphlitis or appendicitis, as compared with 20 monographs and 200 journal articles before that date.

In 52 hospitals in this country with a total of 1,075,-860 patients from 1890 to 1907, the proportion of cases of appendicitis was 1 in 47 before 1900 and 1 in 11 since (Tables IV and V); in 5 European hospitals with a total of 776,069 patients for the same period the proportion was 1 in 147 and 1 in 68; in 7 European hospitals with a total of 1,301,878 patients from 1870 to 1890 the proportion of cases of perityphlitis was 1 in 678 (Table I). Table VII shows the increase in mortality from appendicitis and decrease in that from peritonitis in this country, England and Wales; the increase in the former in Paris; in Uruguay the increase in the mortality of appendicitis is accompanied by a slight increase in that from peritonitis, but a marked decrease from diseases of the stomach. Villaret (4) has compiled statistics from the army records of the War Department at Berlin, from which he concludes the increase in appendicitis is only apparent and due to our increased diagnostic ability which now correctly traces

various abdominal lesions and symptoms to the vermiform appendix; cases formerly described under the head of affections of the liver, peritonitis, gastralgia, ulcer of the stomach, gastric hemorrhage and chronic gastric catarrh were found to have decreased, per thousand, from 4.27 in 1873–4 to .95 in 1900–1, with a corresponding increase in cases of perityphlitis from .52 to 1.73 — that is in twenty-seven years a decrease of 79% in the first group, balancing an increase of 70% in cases of perityphlitis.

As having a possible bearing on this subject I was much interested to learn recently from Dr. . . ., who has devoted the past four years to the study of psychotherapy in various European clinics, the last year of which was in Paris at the Salpetrière with M. Déjerine, that the successors of Charcot now know the innumerable symptoms ascribed to hysteria, concerning which so many tomes have been written, were simply the result of their own, the physician's, suggestion. Is it possible there is a psychological side also to organic disease? Heppe (5) has ascertained that the physicians of Berlin regard appendicitis more and more as a "Volkskrankheit," and would no longer feed lay curiosity with medical information.\* A universal desire for knowledge of the psychological side of medicine is just being awakened; in its broadest sense it is the study of the microcosm - may here lie the van-

<sup>\*</sup>See an amusing squib by "Spectator," a Paris correspondent in the Boston Medical and Surgical Journal, March 19, 1908, p. 397.

#### 10 HAS SURGICAL TREATMENT LESSENED

tage-ground from which will spring a new era, unifying medicine and supplementing the tedious study of minutiae in anatomical and physiological investigation?

#### HISTORICAL.

NEARLY a quarter of a century has elapsed since the paper read by Dr. Reginald Fitz, of Boston, before the Association of American Physicians in 1886 (6), inaugurated the present operative era in the treatment of perityphlitis, or appendicitis as he termed it to better indicate what he regarded the actual seat of the disease — an idea which had been growing among medical men since 1882 (7), but crystalized and emphasized for the first time in this paper: It is a notable example of a physician's ability to indicate possible lines for surgical progress.

In 1867 Dr. Willard Parker (8), one of the leading surgeons of New York, in a paper entitled "An operation for abscess of the appendix vermiformis caeci," advocated timely incision, neither too early nor too late — "Not before adhesions had fully formed nor after a short period before the maximum formation of pus had been reached, that is from the fifth to the twelfth day." He noted the obscurity in which the pathology of the vermiform appendix was involved, the absence of its mention in ancient literature, and the fact that often only at autopsy is this cause of death recognized — gangrene and perforation of the appendix producing, especially in children a rapidly fatal result, with violent symptoms of peritonitis; in adults, however, "abscess of the appendix" being slower in its progress was easier to recognize — pain soon circumscribing itself in the right iliac fossa, with a small tumor in that region; if an abscess was maturing the external opening would tend to make it point in a safe direction — even in the absence of pus a free incision relieved tension without prejudicing the patient's safety; if no adhesions formed to wall off the abscess, death resulted in two to five days — obviously in these cases surgery can be of no avail."

Dr. Parker however had been in part anticipated in this recommendation as to surgical treatment about twenty years by an English surgeon. At a session of the Medical Society of London, Sept. 25, 1848, its president, Mr. Hancock, reported a case of "Disease of the appendix caeci cured by operation" which he believed was the first one of its kind : abscess of the abdomen connected with the caecum or large intestine, and attended with fluctuation had from time to time been opened, but this unequivocal sign should not be awaited, as the patient might die before the disease progressed thus far. He had simply suspected mischief about the caecum, or its appendix, and incised a cord like induration close to the spine of the ileum; at the end of three weeks a faecal concretion was discharged which from its size he imagined had been impacted in, and escaped by ulceration from, the appendix vermi-

#### 12 HAS SURGICAL TREATMENT LESSENED

formis. "In some remarks upon this case Mr. Hancock referred to the frequency of operations on the abdomen of late, particularly in case of ovarian disease, many of which had been successful. He should not argue or draw conclusions from a solitary case, but he thought it, at all events, would justify us in having recourse to such a procedure in cases of peritonitis, when all other means had failed, and without which death was inevitable." Dr. Copeland said he had written on the subject sixteen years before; and he complimented the author on the only successful case he had ever heard of (9). Mr. Dendy remarked that in doubtful cases the exploring needle should be used, a practice advocated and followed forty years later in in this country by Dr. William T. Bull.

The earliest reports of the disease,\* aside from isolated references, are from the wards of the Hôtel-Dieu, Paris, first from the medical side and afterwards from Dupuytren's service. It was probably, in part, the passive attitude of this leading spirit in the surgical world toward these "engorgemens inflammatoire dans la fosse iliaque droite" which exercised a deterrent effect on operative intervention for the next half century. Five of Dupuytren's six cases recovered through spontaneous rupture of the abscess — one emptying

<sup>\*</sup> This statement must be amended with great credit to Mellier for publication the same year (1827) of seven cases, all terminating fatally, with autopsy on each case showing a gangrenous vermiform appendix which was regarded as the starting point of the pathological changes in the abdomen.—(Jour. Gén. de Méd. 1827 xxxix de la 11e Série.)

into the bowel, which he regarded as rather a favorable circumstance (11); of the fifteen cases of Husson and Dance only ten can be accepted, and one of these is also reported by Dupuytren (their seventh case is his first) — leaving nine cases with eight recoveries, four with spontaneous rupture of an abscess, and four without external evidence of suppuration, a total of thirteen recoveries and two deaths.

One of the most important papers of this early period is by Grisolle (13), also at one time Chef de Clinique at the Hôtel Dieu; he advised, however, incision of the abscess as soon as there was fluctuation, and did not regard it as prudent "de demurer simple spectateur des efforts de la nature . . . c'est ce qu'avaient tres bien compris les chirurgiens du dernier sciècle qui, dès qu'ils avaient soupçonné la présence du pus, étaient vivement préoccupés jusqu'à ce qu'ils eussent évacuée ce produit morbide." His prognostic figures - 20 deaths in 73 cases - are quoted as late as 1883 (14). "En génerale, le prognostic n'acquiert de la gravité que lorsque le phlegnon a passé à l'état de suppuration. Il faut néanmoins se rappeler ces cas rares, il est vrai, où l'on voit la phlegmasie du tissu cellulaire s'étendre rapidement au péritoine, avant que le pus soit formé ou lorsqu'il n'est encore qu'infiltré."

Though Rokitansky (15) had studied the anatomical side of the subject Puchelt (16), professor of medicine at Heidelberg, was the first German to take up its clinical aspects, suggesting the term perityphlitis. He

#### 14 HAS SURGICAL TREATMENT LESSENED

described also a primary inflammation of the vermiform appendix, resulting in ulceration, perforation and gangrene of the appendix and of the intestines and neighboring muscles, with the formation of an extenal stercoral abscess or the escape of fecal matter into the peritoneal cavity.

The first book appeared in 1846: "Die durch Kothsteine bedingte Durchbohrung des Wurmfortsatzes, die häufig verkannte Ursache einer gefährlichen Peritonitis, und deren Behandlung mit Opium: von Adolph Volz." Herein we find a list of thirty-nine fatal cases of peritonitis, most of them treated with calomel and other laxatives, ten of them the author's observations, and the others from the literature, all of which upon post mortem examination revealed pathological changes in the vermiform appendix; and in contrast a further list of fourteen recoveries, with the exception of two, all being treated with large doses of opium; but four of them are eliminated by the author, as of doubtful origin in the appendix. Thus the monograph sets forth the value of opium in peritonitis following perforative appendicitis; only one previous case had been reported, in France, by Petrequin (17); its use originated with Graves of Dublin about 1824, who successfully treated two cases of peritonitis following paracentesis; and was later employed by his friend Stokes (18), in one of whose patients the peritonitis entirely subsided with the opium treatment, only to relapse on the administration of a mild laxative with a fatal re-

#### THE MORTALITY FROM APPENDICITIS ?

sult, post-mortem examination showing a perforated caecum with the intestines in the right iliac fossa agglutinated. The part played by opium since then, and the sentiment gradually raised against it, is well known.

In 176 fatal cases of perforating appendicitis Fitz found in 60 death had occurred in the first five days, consequently the earliest day set by Parker for incision was too late to afford the possibility of relief in more than one-fourth of all, and "if the indications for operation justified the election of a day as early as the fifth, they still more justified the choice of the third day," before the encysted or circumscribed peritonitis became general and death inevitable. His conclusions were that the early recognition of perforative appendicitis, in most cases comparatively easy, was of vital importance: urgent symptoms should be met by immediate laparotomy and extirpation of the perforated appendix after recovery from the accompanying shock. If delay was warranted, the resulting abscess should be incised when evident, usually by the third day. He made no attempt to consider in his paper the process until there was evidence perforation had taken place, because of the obscurity of the signs of the incipiency of the inflammation. By the comparison of the symtoms of 209 cases of perityphlitis with 257 cases of perforative appendicitis, he had shown them to be simply different aspects of one and the same inflammatory process, beginning in the appendix.

American surgeons soon began to record their experiences. Morten's (19) seems to have been the first; he saw the patient two days after symptoms of perforation; the unsuccessful laparotomy was recommended as offering the best hope of recovery. Sand's (20) first successful case was not an appendicectomy - neither the appendix nor the lips of the perforation at its base, from which two fecal concretions escaped, were gangrenous; the edges of the perforation were simply trimmed and brought together with three silk sutures. The first series of six cases was reported by Weir (21) -all fatal. Then followed McBurney's (22) more encouraging series of 11 cases with only one death, all operated within the first 48 hours; and two years later (23) his additional 13 cases without a death, making 24 with one death to January, 1891. In McBurney's second paper indications for early operation was clearly stated, and so well stated practically nothing essential has been added since. He would not operate on all cases on the first day to anticipate danger. In the previous year he had seen himself 13 cases so mild no one would have thought of recommending an operation; if tenderness was not increasing, temperature not over 100 and pulse but little accelerated, recovery could be anticipated; but by the end of 36 hours from the beginning of the attack - often earlier with the case progressing badly - if the symptoms were becoming worse he would operate.

. The pendulum swung to the extreme with the claim of some surgeons that the only proper treatment of appendicitis is immediate excision of the appendix; this Fitz (24) thought was going too far. In 1900 he reported (25) the cases he had seen in the previous four years, 72 with 19 deaths, the largest series recorded up to that time, about half of which had been operated with a mortality of 40%, and a mortality of 11% for those not operated. Deaver (26) was one of the first to recommend immediate operation, and has since been one of the strongest supporters of this contention. In a discussion of a paper by Richardson read before the Association of American Surgeons in 1899 (27) he urged operation on all patients except those in collapse and with active general peritonitis. The following were some of the remarks of Senn, expressing his own opinion on this point : "Any surgeon who follows such a stringent rule, with few exceptions, as advocated by Dr. Deaver to-day may be a good practitioner, but he would make a poor and dangerous teacher. . . . . I do not wish to insinuate . . . . against Dr. Deaver, who certainly stands at the head of the surgical profession of this country, and whose practice is perfectly safe in abdominal work, but I do know from personal knowledge, of men who have been guided by the rule he lays down, who have repeatedly removed the healthy appendix. . . . For my part I always feel weakest in the matter of making an early

#### 18 HAS SURGICAL TREATMENT LESSENED

diagnosis in the first attack." Deaver says however: "Better take out a healthy appendix and have the patient recover, than a diseased one and have the patient die" (27). Abroad, Riedel is the leading advocate of immediate operation in all cases (28).

Since the paper of Fitz the disease has been claimed for treatment by the surgeon, not only in this country but abroad. "Sonnenburg hat den Satz ausgesprochen : Die Perityphilitiden gehoren den Chirurgen. Gut! Gehen wir darauf ein, machen wir den Versuch!" (Sahli, 1895 (29)).

#### STATISTICS.

In an effort to ascertain the effect of surgical treatment on the mortality of appendicitis there are three sources from which to gather data: reports of individuals, reports of hospitals, and reports of the Public Services — Army, Navy, and Marine Hospital Service.\* The words mortality and fatality are generally employed synonomously, but the former may be restricted to frequency of death per unit of population and the latter per unit of sick. Mortality statistics are compiled by governments from certificates of death furnished by physicians; with a given fatality, the mortality of a disease will vary with the morbidity. Fatality is an index of the success of treatment, two impor-

<sup>\*</sup>An effort to secure data abroad, through United States Consuls in the large capitals of Europe, was unsuccessful.

tant factors being the severity of the disease and the resisting powers of the patient. Morbidity is influenced by endemic, epidemic and psychological factors, concerning which we have but meagre information.

The first large series of cases of perityphlitis was compiled by Mattersock in 1880 (30), 977 attacks with 294 deaths, or 30%; since then this has been generally accepted as the fatality previous to the present operative era in the treatment of appendicitis, or perityphlitis as it is still called by most European writers.\* Mattersock's data is not given in detail; as it includes the earliest period in the history of the disease, it seemed possible this fatality was unduly high from inclusion of inflammatory processes in the iliac fossa following accouchment, as in Grisolle's 20 deaths in 75 cases of "tumeurs phlegmoneuses des fosses iliaques," the latter in fact stating their fatality was about twice that of the non-puerpereal.

I have collected from the reports of all the European hospitals accessible, seven in number, 1,916 cases of typhlitis and perityphlitis with 128 deaths, or 6.6%, for the period 1870 to 1890, previous to which the number of cases rapidly dwindles, just as appendicitis disappears from American hospital reports about 1890. There are chiefly two classes of cases of appendicitis

<sup>\*&</sup>quot;The mortality is not by any means clearly established." (Fitz, N. Y. Med. Jour., May 12, 1888, p. 505.) Noyes collected 100 cases treated by simple incision of the abscess with 15 deaths. (Trans. R. I. Med. Soc., 1882-3, p. 495.)

#### 20 HAS SURGICAL TREATMENT LESSENED

not included in reports of perityphlitis from 1870 to about 1890 - general peritonitis starting in the appendix and those described as chronic. To ascertain their relative frequence I have collected from all the reports of American hospitals accessible, in which this information is given, seven in number (Table II), 13,894 cases of appendicitis, of which 664, or 4.7%, were complicated by general peritonitis, and 5,211, or 37.5%, were chronic. Table III shows how little the fatality of 6.6% is changed by "correcting" the statistics for the twenty years preceding 1890, by means of the information just stated, in an effort to make the periods before and after 1890 comparable — the large number of mild cases with a negligible fatality offsetting the small number with a high fatality. The statistics of Sahli immediately following 1890, and those of Stricker ending in 1905, in their correspondence with the figures I have given for the period immediately preceding 1890, suggest more than a coincidence.

Sahli (29) in 1895 collected 7,213 cases with 692 deaths, or 9.7%, from reports made to him by 466 physicians — 475 attacks, or 6.5%, were subjected to operative interference. The deaths were 101 of those operated, or 21%; and 591, or 8.8%, for the 6,740 treated without operation.

Stricker (31) in 1906 collected a still larger series of cases from the records of twenty corps of the German Army:

#### THE MORTALITY FROM APPENDICITIS ?

	Cases.	ses. Died.	Operated.	Died.	TREATED WITHOUT OPERATION.		
					Cases.	Died.	
1880 to 1900.	6,296	270 (4.2%)	235 (3.7%)	66 (28%)	6,061	204 (3.3%)	
1900-05	4,498	142 (3.1%)	629~(14%)	98 (15.5%)	3,869	44 (1.1%)	
Total	10,794	412 (3.8%)	864 ( 8%)	164 (18%)	9,930	248 (2.5%)	

Combining the statistics of Sahli and Stricker, which agree significantly, we have a total of 18,007 cases with 1,104 deaths, or  $6.1^{\circ}/_{o}$ ; 1,337, or  $7.4^{\circ}/_{o}$ , subjected to operation; the deaths were 265 of those operated, or  $19^{\circ}/_{o}$ , and 839, or  $5^{\circ}/_{o}$ , for the 16,570 cases, or, better, attacks treated without operation.

From the Public Services, in this country, I have collected (Table XI) 3,347 attacks of appendicitis since 1895, with 160 deaths, or  $4.7^{\circ}/_{o}$ . It must be noted more than half were operated, as compared with  $14^{\circ}/_{o}$  operated in the German Army — and practically the same fatality.

I have collected from the reports of 52 hospitals, in this country, 43,039 attacks of appendicitis treated since 1890, with 3,152 deaths, or  $7.3^{\circ}/_{o}$ ; the fatality before 1900 was  $11.3^{\circ}/_{o}$ , and  $6.3^{\circ}/_{o}$  since. From the reports of 23 of these hospitals (Table IV), it was possible to ascertain the number subjected to operation — 28,036 attacks with 26,044 operated, or  $92^{\circ}/_{o}$ , of which

5,210 attacks were before 1900 with a fatality of 11.7% operation in 81%, and 22,826 attacks since 1900, with a fatality of  $5.9^{\circ}/_{\circ}$ , operation in  $95^{\circ}/_{\circ}$ ; the remaining 29 hospitals (Table IV) undoubtedly agree closely with this group in the percentage of cases subjected to operation. From the reports of 5 European hospitals (Table VI), unfortunately all that were accessible, I have collected an additional 7,589 attacks since 1890; for 971 of these, treated at the Charité, Berlin, with 66 deaths, or  $6.7^{\circ}/_{\circ}$ , the number operated cannot be stated, though 302, or 31%, are found in the reports of the surgical division; of the remaining 6,618 attacks with 872 deaths, or 13.1%, there was operated 3,469, or  $52^{\circ}/_{\circ}$ , making a total of 34,654 attacks with 2,832 deaths, or 8.1%, from reports of American and European hospitals in which the proportion subjected to operation can be stated, namely, 85%. In Table IV it can be noted there is a decrease in fatality for each hospital since 1900, and an increase in the percentage of cases operated, but on scrutiny of the extracts from the hospital reports, which follow, one finds in some instances this is due to an increase in the chronic, interval, subacute and less serious cases. The history of the operation in this country and England seems epitomized in the list of operations performed at Roosevelt Hospital, New York - where Dr. McBurney was the Surgeon in Chief until 1900 - and at St. Bartholomew's, London (Tables VIII and IX).

Since 1900 there have been treated in three hospitals in this country - St. Mary's, Rochester, Minn., The German, Philadelphia, and The Augustana, Chicago, representing the work of Drs. William J. Mayo, John B. Deaver and A. J. Ochsner - 10,247 cases, 97% being subjected to operation, with 351 deaths, or 3.4%,: 4,173 of these, or 40%, are described in the reports as chronic or interval cases, with only 11 deaths, or  $0.2^{\circ}/_{\circ}$ , deducting which there remains 5,141 acute and sub-acute cases with 302 deaths, or 5.8% (Table X). This agrees closely with 1,180 cases treated by Riedel (28b) in Germany, between January 1, 1903, and September 30, 1907, with 76 deaths, or 6.4%. Ridel's most fortunate series of 441 cases with 12 deaths, or 2.9%, subjected to operation between January 1, 1906, and September 30, 1907 -excluding 130 cases in children with 13%, fatality - and Mayo's 1,957 acute cases with 47 deaths, or  $2.4^{\circ}/_{o}$ , for the eight years 1,900-07, excluding 2,287 chronic cases with only 2 deaths, or 0.08%, can be regarded as the present highwater mark of surgical success in the operative treatment of acute appendicitis, all cases being subjected to operation. If Mayo's acute and chronic cases are combined they make a unique series of 4,784 cases since 1900, with a fatality of  $1.0^{\circ}/_{\circ}$ , all but 19 with 5 deaths being operated. To compare with it there is Stricker's unique series of 3,869 cases for the six years, 1900-05, treated without operation, with a fatality of  $1.1^{\circ}/_{\circ}$ . There are no medical statistics showing the fatality of

"chronic" cases. I have collected 10,798 chronic and interval cases subjected to operation, with a fatality of  $0.5^{\circ}/_{\circ}$  (Table X).

#### SUMMARY.

I HAVE collected in all 55,891 attacks of appendicitis with 4,378 deaths, or  $7.7^{\circ}/_{\circ}$ : 1,916 with a fatality of  $6.6^{\circ}/_{o}$  treated in the preoperative era, before 1890, and 53,975 since, with a fatality of  $7.8^{\circ}/_{o}$ , from  $50^{\circ}/_{o}$  to 100%, being subjected to operation in different series of attacks constituting this total. The combined statistics of Sahli and Stricker give 18,007 attacks with a fatality of  $6.1^{\circ}/_{o}$  — the number subjected to operation being only  $7.4^{\circ}/_{o}$ . It must be remembered, however, that to compare a series of cases with recurrent attacks, treated by purely medical means, with a series in which all are operated, and therefore without recurrent attacks, the fatality in the former should be increased by the percentage of recurrences; when part are operated and part treated medically this difference is lessened. Because of insufficient data it is impossible to correct the statistics for this factor, but, for example, in 13,036 of the attacks reported by Sahli and Stricker there was recurrence in  $19.8^{\circ}/_{\circ}$ , with the aid of which information the actual number of their cases, suffering 18,007 attacks, can be approximated at 14,440, increasing the fatality of  $6.1^{\circ}/_{\circ}$  for the attacks, to  $7.6^{\circ}/_{\circ}$  for the actual number of cases. There are no

#### THE MORTALITY FROM APPENDICITIS ?

statistics on a large scale showing the relative fatality of the primary attack and recurrences;  $78^{\circ}/_{\circ}$  of the recurrences, in Stricker's statistics, were within the first year and less than  $10^{\circ}/_{\circ}$  after the second year.

The surgeon assumes grave responsibilities in his efforts to aid nature, the consciousness of which must often weigh heavily upon him. Every one who desires to engage in surgical work, every one who is called upon to advise as to the necessity of surgical intervention, must determine for himself what constitutes legitimate surgery. The subject of this essay placed on trial a large amount of operating; the evidence accumulated can speak for itself. My own conclusion is that with the inauguration of the present operative era in the treatment of appendicitis, the fatality of the disease was increased before 1900, and later subsided to about its point of departure — that is when the sum totals are considered. The success of any one operator points to what all may hope to accomplish, but such final and general success in the surgical treatment of appendicitis will have to be chronicled by some future essay.

# REFERENCES.

1. Cushing: Surgery, Gynecology and Obstetrics, March, 1908.

2. Doyen: Traité de Thérapeutique Chirurgicale et de Technique Opératoire, Paris, 1908. Vol. 1.

3. Bloodgood: Journal of the American Medical Association, Nov. 3, 1906, p. 1470.

4. Villaret: Deutsch. Med. Woch., Jan. 1, 1904; p. 16.

5. Heppe: Die Appendicitis in Kenton Aargau, besonders ihr endemisches Auftreten und epidemisches Aufflacken, 1906.

Fitz: Trans. of the Assn. of American Physicians, 1886. Vol. 1;
 p. 107.

7. Hawkins: Diseases of the Vermiform Appendix, London, 1895. And see for example Lancet, Dec. 19, 1885; p, 1166; also New York Med. Jour., January, 1881; p. 1.

8. Parker: Med. Rec. N. Y. Vol. II, 1867; p. 25.

9. Copeland: Dictionary of Medicine, London, 1858. Vol. 1; p. 278.

10. Bull: Med. Rec. N. Y., March 6, 1886; p. 265.

11. Dupuytren: Leçons Oral es de Clin. Chir., 1833. Vol. III; p. 330.

12. Husson et Dance: Répertoire Générales d'Anatomie et de Physiol. et de Clin. Chir., 1827. Vol. IV; p. 74.

 Grisolle: Histoire des Tumerus Phlegmoneuse des Fosses Iliaques, Archiv. gén. de méd. 3 Ser. Vol. IV, 1839; pp. 34, 137 and 293.

14. For example see Dantel: Thèse de Paris, 1883, De la perityphlitis primitive.

15. Rokitansky: Pathologische Anatomie, Wien, 1842. Vol. 3; p. 285.

16. Puchelt: Encyclopédie des Sciences Médicales, 1843. Vol. VI.

27

17. Petrequin: Gaz. Méd., Paris, 1873. Vol. VIII; p. 438.

18. Stokes: Cyclopedia of Practical Medicine, of Forbes, Tweedie and Conolly. Vol. III; 1834.

 Morten: (a) Proceedings of the Philadelphia County Med. Soc., 1887. Vol. VIII; p. 263.

(b) Jour. of the Amer. Med. Assn., June 16, 1888.

(c) Med. Bull., Phila., 1902. Vol. XXIV; p. 212.

20. Sands: N. Y. Med. Rec., Feb. 25, 1888; p. 197.

21. Weir Med. News, April 27, 1889; 449.

22. McBurney: N. Y. Med. Jour., Dec. 21, 1889; p. 667: "Early operative interference in cases of diseases of the vermiform appendix."

23. McBurney: Ann. of Surgery, 1891. Vol. 13; p. 232.

24. Fitz: Boston Med. & Surg. Jour., July 28, 1892; discussion of Worcester's paper.

 Fitz: (a) Trans. of Assn. of Americ. Physic. Vol. V, 1890; p. 39.

(b) Bost Med. & Surg. Jour., June 19, 1890; p. 505.

26. Deaver: Treatise on Appendicitis, 1st Edt., 1896.

27. Deaver: Phila. Med. Jour., July 5, 1902; p. 18.

28. Riedel: (a) Berl. Klin. Woch., August, 1899; p. 717.
(b) Munc. Med. Wch., Nov. 26, 1907; p. 2565.

29. Sahli: Cor. Bl. f. Schweiz Aerzte, Sept. 15, 1895; p. 561.

30. Mattersock: Gerhard's Handbuch der Kinderkrankheite. Tübigen, 1880; p. 894.

31. Stricker: Die Blinddarmentzundung in der Armee von 1880-1900. Berlin, 1906.

۰.

.

# TABLE I.

# Showing Cases of Perityphlitis and Typhlitis Recognized Between 1870 and 1890 in the Seven European Hospitals Named.

NAME OF HOSPITAL.	Total Patients.	One in	Cases.	Died.	Pr. ct.
Charite, 1874–1889	241,030	(798)	302		4.6
K. K. Krankenanstelt Rudolph-Steffenig in Wien 1865–1891	207,111	(1511)	137	10	7:2
Allgemeine Kran. Wien, 1868–1890	533,813	(658)	811	57	7.
Kirkenhaus Wieden, 1868-1889	116,526	(515)	226	4	1.7
Middlesex Hospital, 1869-1889	49,994	(442)	113	12	10.6
St. Bartholomew's, 1873–1888	105,679	(620)	170	22	12.9
	1,301,878	(678)	1916	128	6.6

#### REPORTS OF

1

## CHARITE HOSPITAL.

BERLIN.

YEAR.	TOTAL NO. OF PATIENTS.	CASES OF TYPHLITIS AND PERI- TYPHLITIS.	DIED.
1874 (I)	13,792	16 Medical Report	3
1875	14,149	11 " "	0
1876	12,378	10 " "	0
(III) 1878	15,125	12 " "	0
(IV) $1879$	16,618	12 " "	2
(V) 1880	18,234	5 " "	0
(VI) 1881	18,225	17 " . "	1
(VII) 1882	18,009	18 " "	1
(VI1I) 1883 (IX)	17,463	20 " " 0 Surgical Report	$\begin{array}{c} 1 \\ 0 \end{array}$
1884 (X)	16,862	<ul><li>36 Medical Report</li><li>1 Surgical Report</li></ul>	0 0
1885 (XI)	18,335	<ul><li>39 Medical Report</li><li>1 Surgical Report</li></ul>	4 1
1886 (XII)	18,263	<ul><li>27 Medical Report</li></ul>	0 0
1887–88 (XIII)	23,269	50 Medical Report 3 Surgical Report	0 0
1888–89 (XIV)	20,358	18 Medical Report 3 Surgical Report	$\begin{array}{c} 1 \\ 0 \end{array}$
	241,030	302	14 (4.6%)

1

# REPORTS OF

## K. K. KRANKENANSTALT,

RUDOLPH-STEFFENIG IN WIEN.

YEAR.	TOTAL NUMBER OF PATIENTS.	Cases.	DIED.
1865	6,197	0	0
1866	7,821	2	0
1867	8,755	0	0
1868	8,234	1	0
1869	7,883	6	0
1870	7,328	4	2
1871	7,112	3	0
1872	7,064	3	0
1873	7,162	6	0
1874	6,254	6	2
875	6,692	5	1
876	6,540	7	0
877	6,588	4	0
.878	7,316	11	1
879	7,825	0	0
880	7,460	0	0
881	7,104	1	0
.882	7,610	4	0
883	8,954	2	0
.884	8,042	0	0
885	8,694	8	0
886	7,660	10	0
887	8,031	8	1
.888	8,509	8	1
.889	8,766	17	2
.890	8,445	6	0
.891	9,065	15	0
	207,111	137	10

(1 in 1511)

(7.2%)

### K. K. ALLGEMEINEN,

KRANKENHAUS ZU WIEN.

YEAR.	TOTAL NUMBER OF PATIENTS.	CASES OF APPENDICITIS.	DIED.	
868	20,880	12	0	
869	21,977	12	1	
870	21,657	21	1	
871	22,860	22		
872	24,007	25	23	
873	22,049	38	3	
874	20,563	32	0	
875	21,297	25	0	
876	20,659	20	5	
877	21,743	31	2	
878	22,263	27	0	
879	23,068	31	5	
880	23,249	36	2	
881	23,565	22	6	
882	23,981	35	0	
883	24,759	45	6	
884	25,689	54	2	
885	24,448	30	4	
886	24,397	32	3	
887	25,796	58	0	
888	25,138	72	2	
889	25,473	65	5	
890	24,285	66	3	
	533,813	811	57	
	(1 in 658)		(7%)	

.

#### REPORTS OF

### K. K. KRANKENHAUS,

#### WIEDEN.

YEAR.	TOTAL NUMBER OF PATIENTS.	CASES OF APPENDICITIS.	Died.
868	7,820	2	0
869	7,105	1	0
870	6,344	5	0
871	7,563	13	0
872	6,481	10	0
873	3,406	13	0
874	3,468	5	0
875	3,204	7	0
876	3,167	3	0
877	3,182	6	1
878	3,413	8	0
879	3,208	3	0
880	3,873	11	2
881	4,046	7	0
882	4,084	10	0
883	4,261	13	0
884	6,955	22	1
885	6,732	18	0
886	7,189	12	0
887	8,095	17	0
888	6,564	20	0
889	6,366	20	0
	0,500		
	116,526	226	4
	(1 in 515)		(1.7%)

#### REPORTS OF

1

3

### MIDDLESEX HOSPITAL.

YEAR.	TOTAL NUMBER OF PATIENTS,	CASES OF TYPHLITIS, PERITYPHLI- TIS AND PERICAECAL ABSCESS.	DIED.
.869	2,142	4 Medical Report	1
870	2,123	4 " "	0
.871	1,991	1 " "	0
.872	2,061	4 " "	0
873	2,596	12 " "	0
874	2,797	4 " "	0
.875	2,910	7 " "	0
.878	2,279	5 " "	0
.879	2,853	9 " "	0
880	2,763	3 " "	0
.881	3,010	10 " "	0
882	3,092	8 " "	0
883	2,901	16 " "	1
.884	1,810	8 " "	0
		1 Surgical Report	1
		(Ulceration and perforation	
		of vermiform appendix.)	
		2 Surgical Report	1
		(Pericaecal Abscess)	
.885	2,951	14 Medical Report	0
		3 Surgical Report	1
.886	3,123	8 Medical Report	0
		3 Surgical Report	0
.888	3,097	9 Medical Report	0
		1 Surgical Report	1
.889	3,226	15 Medical Report	3
		6 Surgical Report	0
	47,725	157	9

(1 in 303)

(5.7%)

.

۰.,

#### REPORTS OF

### ST. BARTHOLOMEW'S HOSPITAL,

#### LONDON, ENG.

YEAR.	TOTAL NUMBER OF PATIENTS.	CASES OF APPENDICITIS.	DIED.
			_
1873	5,902	6 Medical Report-Typhlitis	1
.874	6,342	5 Medical Report-Typhlitis and	0
075	6.057	Coleritis.	0
.875	6,057	1 Medical Report—Perityphlitis	0
.876	5,623		. 0
1877	5,225		3
878	5,653		1
1879	6,314		1
880	6,529	2 " "	0
881	6,896	16 " "	0
1882	7,383	15 " " Perityphlitis	1
1883	7,397	10 " " Typhlitis	1
1884	7,640	16 " " Perityphlitis	0
885	7,349	10 " "	2
		6 Surgical Report:	
		2 Perityphlitis	
		4 Perityphlitic Abscess	4
886	6,908	12 Medical Report—Typhlitis	0
1887	7,529	26 25 Medical Report:	
		Typhlitis (4 died)	
		1 Surgical Report :	
		Perityphlitis (1 died)	5
1888	6,932	33 29 Medical Report :	
		Typhlitis (3 died)	
		4 Surgical Report :	
		Perityphlitis (0 died)	3
			1

105,679 170 (1 in 621) 22 (12.9%)

#### REPORTS OF

### ST. THOMAS' HOSPITAL,

LONDON, ENG.

Year.	TOTAL NO. OF PATIENTS.		Cases of	Appendicitis.	DIED.	
1878	3,356				0	
1879	3,183	3		Report	0	
1880	3,351	-7	"	•• • • • • • • • • • • • • • • • • • • •	0	
1881	4,007	0			100	
1882	4,146	0				
1883	4,432	5		Report	0	
IT IS A SUB		1	"	" Perforated.	1	Acute peritonitis, pleu-
				Appendix		risy and pericarditis.
1884	4,699	16	44	Report	0	
1885	4,479	8	46	" Perforated.	3	
				Appendix		STATE IN COLOR
1886	4,458	13	""	"	0	
		2	"	" Perforated.	2	
				Appendix		
		1	Surgical	Report Typhlitis	1	
1887	4,385	12	Medical	Report	0	
1001	4,000	4	64 h	" Perforated.	4	
		Ŧ		Appendix	Ŧ	
1888	4,953	17	"	"	1	
1889	4,545	18	"	" Perityphlitis	0	
1005	4,040	3	"	" Perforated	3	
		0		Appendix.	0	
				Appendix		
	49,994	113			12	
	(1 in 442)			(	(10%)	

### TABLE II.

# Showing Proportion of Cases under head of Chronic Appendicitis and Appendicitis with General Peritonitis for Hospitals and Period Named.

NAME OF HOSPITAL AND YEARS (INCLUDED IN).	Appendicitis with General Peritonitis.	CHRONIC APPENDICITIS.	TOTAL CASES.
MassachusettsGeneral,1899-1906	255 (149 died)	965 ( 2 died)	3,035
St. Mary's, 1903–1907	38 ( 16 died)	2,351 ( 1 died)	3,955
Roosevelt, 1889–1906	112 ( 82 died)	347 ( 3 died)	1,912
St. Luke's, 1901–1907	66 ( 28 died)	562 ( 2 died)	1,348
J. Hood Wright, 1901–1907	34 ( 16 died)	25 ( 0 died)	363
Augustana, 1900–1906	82 ( 35 died)	785 ( 5 died)	2,175
RhodeIslandHospital,1897-1907	77 ( 44 died)	176 ( 2 died)	1,106
		5,211 (15 died) (37.5%)	13,894 (100%)

#### TABLE III.

#### Correcting Table I by Means of Information Furnished in Table II.

Cases recognized as peri- typhlitis and typhlitis between years 1870– 1890 in seven European hospitals as shown in table		
table 1500 01 01.070		
Estimated number cases		
General Peritonitis 156 or 4.7%		
Estimated No. Chronic		
Cases 1241 or 37.5%	Estimated propor-	
	tion of entire No.	
	in view of table.	Died 94 (5%)
		Dica 01 (070)
	Assumed fatality of	D' 1 150
	100%	Died 156
Estimated total number		
cases in view of table 3,313 100%		250 (7 5%)
Cases III view of table 5,515 10070		250 (7.5%)

#### HAS SURGICAL TREATMENT LESSENED

٠.,

FOR TIS.	Total.	$\begin{array}{c} 412\\ 632\\ 632\\ 632\\ 633\\ 716\\ 342\\ 342\\ 342\\ 342\\ 342\\ 342\\ 342\\ 342$	26,044	1
PERATIONS FO	Before 1900.	4833255558832355555533255555555555555555	4,263 2	
OPERATIONS APPENDIOI	bus 0001 After.	$\substack{324}{324}\\ 3242\\ 32422\\ 3242\\ 3242\\ 3242\\ 3242\\ 3242\\ 3242\\ 3242\\ 3242\\ 3242\\ 3242\\ 32$	21,781	
AGE PY.	Entire Period.	6.121.681.940.091.101.111.106 6.131.681.940.001.101.111.106 6.131.681.940.001.101.111.101.006 6.131.000.001.001.001.0000.0000.000000000	6.9	7.3
PEROENTAGE FATALITY.	Before 1900.	13.9 10.2 11.0 11.0 11.0 11.0 11.0 11.0 11.0	11.7	11.3
PER	1900 and After.	900 100 100 100 100 100 100 100	5.9 7.	6.3
No. HS.	Total.	40 112 112 112 112 112 112 112 112 112 11	1960	3152
OTAL N DEATHS	Before 1900.	$\substack{1000000}{200000000000000000000000000000$	612 373	985
TOTAL DEAT	1900 and After.	48824884499128846949494949494949494949494949494949494	1348 819	2167
CASES (TIS.	Total.	$\begin{array}{c} 564\\ 762\\ 763\\ 762\\ 763\\ 763\\ 763\\ 763\\ 764\\ 776\\ 774\\ 776\\ 774\\ 776\\ 774\\ 776\\ 774\\ 776\\ 774\\ 776\\ 774\\ 705\\ 716\\ 705\\ 716\\ 705\\ 716\\ 705\\ 705\\ 716\\ 705\\ 705\\ 705\\ 705\\ 705\\ 705\\ 705\\ 705$	28,036 15,003	8,702 43,039
FOTAL NO. CASES APPENDICITIS.	Before 1900.	$\begin{smallmatrix} 128\\175\\175\\192\\192\\192\\103\\103\\103\\103\\103\\103\\103\\103\\103\\103$	5,210 3,492	8,702
TOTAL	1900 and After.	$\substack{ \begin{array}{c} 435\\ 583\\ 583\\ 583\\ 316\\ 330\\ 330\\ 330\\ 330\\ 330\\ 330\\ 330\\ 33$	22,826 11,511	34,337
IBER S.	.IstoT	$\begin{array}{c} 22,082\\ 6,557\\ 6,0618\\ 6,0618\\ 2,2,259\\ 2$	611,765 464,095	1,075,860 34,337
TOTAL NUMBER PATIENTS.	Before 1900.	$\begin{array}{c} 9,889\\ 13,189\\ 1,101\\ 24,797\\ 1,709\\ 1,709\\ 1,709\\ 3,933\\ $	247,370 239,256	486,626
TOT	bns 0001 After.	$\begin{array}{c} 12,198\\ 18,408\\ 4,117\\ 35,125\\ 9,462\\ 9,462\\ 9,462\\ 11,145\\ 11,145\\ 11,145\\ 12,906\\ 11,172\\ 22,359\\ 11,679\\ 13,049\\ 13,$	364,395 224,839	589,234
NAME OF HOSFITAL.		<ol> <li>New Haven Hospital, New Haven, Conn.</li> <li>City Hospital, Worcester, Mass.</li> <li>Lawrence General Hospital, Lawrence, Mass.</li> <li>Masachusetts General Hospital, Lawrence, Mass.</li> <li>Malden Hospital, Lynn, Mass.</li> <li>Malden Hospital, Lynn, Mass.</li> <li>Malden Hospital, Lynn, Mass.</li> <li>Malden Hospital, Lynn, Mass.</li> <li>Malden Hospital, Malden, Mass.</li> <li>S. R. Smith Infirmary, New Brighton, N. Y.</li> <li>Rosevelt Hospital, N. Y.</li> <li>Rosevelt Hospital, New York City.</li> <li>St. Luke's Hospital, New York City.</li> <li>Mary's Hospital, New York City.</li> <li>Mary's Hospital, Rochester, Minn.</li> <li>Mary's Hospital, Rochester, Minn.</li> <li>St. Joseph's Hospital, Paterson, N. J.</li> <li>St. Joseph's Hospital, New York City.</li> <li>St. Luke's Home and Hospital, Concord, N. J.</li> <li>St. Luke's Home and Hospital, Orange, N. J.</li> <li>St. Luke's Home and Hospital, Orange, N. J.</li> </ol>	Totals and averages Brought forward from Table V	

TABLE IV.

ued	
0	
6.2	
-	
_	
-	
- E.S	
-	
-	
-	
-	
0	
0	
Contir	
-	
1	
1	
>	
~·	
V.	
IV	
TABLE IV	

OPERATIVE DEATHS.	1900 and After.           After.           Refore           Before           1900.           Refore           1900.           Refore           Total.           Affe.	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	-
APPEN- BER	*'0681	$\begin{array}{c} 1,200\\ 2,291\\ 2,291\\ 2,291\\ 1,200\\ 3,202\\ 3,202\\ 3,202\\ 3,202\\ 1,132\\ 3,202\\ 3,202\\ 1,132\\ 3,202\\ 3,$	_
F A	.0001	9999414602888888888888888888888888888888888888	_
o ga o	·9061	22222222222222222222222222222222222222	
PORTION OF CASES OF API DICITIS TO TOTAL NUMBER OF PATIENTS.	Entire Period.	(4.5%) (4.5%)	25 eriod.)
ION OF IS TO	Before	(i) 124 (i)	r 55 iest p
PROPORTION OF DICITIS TO T OF P.	1900 and After.	One in 28 1123 1123 1123 1123 1235 1235 1	17 55 25 (1890 carliest period.)
PERCENTAGE RELATION OF APPENDICEAL OPERATIONS TO ALL OTHERS.	Entire Period.	9.8 10.1 10.8 10.8 10.1 10.8 10.1 1	
NTAGE RELAT APPENDICEAL OPERATIONS ALL OTHERS,	Before 1900.	400004400000440404040000044 0 0000000 04044000000400 0	
DERCEN	1900 and After.	13.6 13.6 13.6 13.6 13.8 13.8 15.7 15.7 15.7 15.7 15.7 15.7 15.7 15.7	
GE OF 8 CASES UPON.	Entire Period.	5 8555282282525252222222222222222222222	
PERCENTAGE O APPENDICITIS CA OPERATED UPO	Before 1900.	858885558855585555558888338	
PER APPEN OPER	1900 and .1911A	52 [23883888888888888] S	
OF ALL NS, IINOR.	.fstoT	$\begin{array}{c c} \begin{array}{c} 4,572\\ 7,126\\ 6,407\\ 6,407\\ 6,407\\ 6,407\\ 6,407\\ 15,209\\ 15,209\\ 15,346\\ 19,345\\ 19,345\\ 19,345\\ 19,345\\ 19,345\\ 19,345\\ 19,345\\ 10,345\\$	
TOTAL NUMBER OF ALL OPERATIONS, MAJOR AND MINOR.	Before 1900.	$\left \begin{array}{c}1,927\\2,315\\2,315\\1,439\\1,448\\1,448\\1,439\\5,506\\2,476\\1,439\\5,506\\2,510\\2,055\\3,348\\2,055\\2,055\\2,055\\2,055\\2,055\\6,348\\2,055\\6,348\\2,056\\6,056\\6,05$	
TOTAL I OP MAJOI	1900 and After.	$\begin{smallmatrix} 2,445\\4,811\\1,845\\1,845\\1,845\\2,845\\8,635\\3,685\\3,685\\3,685\\3,685\\3,685\\3,685\\5,558\\3,568\\5,558\\3,568\\5,558\\3,568\\5,558\\3,568\\5,558\\3,568\\3,$	
Hospital.)	The state of the second states and the	11 12 13 13 13 13 13 13 13 13 13 13	

THE MORTALITY FROM APPENDICITIS ?

. .

• .

#### REPORTS OF

### NEW HAVEN HOSPITAL,

### NEW HAVEN, CONN.

Year.	Total No. of Patients	CASES OF APPENDICITIS. DIED.	Operations.	Total No. of All Ope- rations.
1891	983		1	178
1893		6 1	1	220
1894		13 1	2	224
1895		13	6	213
1896		21 1	13	258
1897	1,154			
		1 with Septic Peritonitis. 1 with septic perito-	~	0.00
1000	1 000	nitis	21	283
1898	1,283		24	267
		2 with Septic Peritonitis. 2 with septic perito-		
		nitis		
1899	1,204		20	284
		6 with Septic Peritonitis. 3 with septic perito-		
		nitis		
1900	1,369		39	305
		with Septic Peritonitis. 4 with septic perito-		
		nitis		
1901		43 2	31	328
1902	1,472	53 7	49	342
1903	1,721	555. 77 $5$ 8	37	342
1994	1,882		57	353
		44 simple (0 died)		
		27 suppurative (4 died)		
		3 with general peritonitis		
		(4 died)	1000	
1905	2,105	75 7	59	369
		52 simple (2 died)		
		1 gangrenous (1 died)		
		8 with general peritonitis		
		(4 died)		
		14 suppurative (0 died)		

# THE MORTALITY FROM APPENDICITIS ?

	Alexandre				
YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	DIED.	Operations.	Total No. of All Ope- rations.
1906	2,200	86 55 simple (1 died) 5 with general peritonitis (3 died) 25 suppurative (2 died) 1 with intestinal obstruc- tion (1 died)	7	52	406
1900 and after.			42	324	2,445
Before 1900.			18	88	1,927
			60	412	4,372

# NEW HAVEN HOSPITAL - Continued.

In 1891 3 cases in 983 patients in hospital, or about 1 to 330, or .003%. In previous 3 years, 1888-89-90, 0 cases in 2,787 patients.

In	1906,	86	cases	in 2,200	patients	in	hospital,	or 1 for every 25, or
								nearly 4%.
In	1900,	46	"	1,369	"	"	"	1 for every 30, or
								nearly 3%.
In	1900-06,	435	"	12,193	"	"	"	1 for every 28, or
								about 3 <u>4</u> %.
In	1890–99,	129	66	9,889	"	"		1 for every 76, or
								about 1 <del>3</del> %.
1	Fotal,	564		22,082	1			

Mortality 1900, on 9.6% (42 died in 435). Mortality up to 1900, 13.9% (18 died of 129).

Total of appendicitis patients, 564.

- Number operated 1900 on 324 operated out of 435 patients, or 74%, or about <sup>3</sup>/<sub>4</sub> " " up to 1900 88 " " 129 " or 68%.
- Percentage of number operated 1900 on 324 operations for appendicitis outof 2,445 operations, 13.2%.
- Percentage of number operated up to 1900, 88 operations for appendicitis out of 1927 operations, 4%.
- Increase in percentage cases operation of 9.2 shows reduction in mortality of 4.3%.

Total operations of all kinds, 4,372.

Total operations for Appendicitis, 412.

- Percentage of deaths from Appendicitis (42) to total patients after 1900 (12,193), equals .34%.
- Percentage of deaths from Appendicitis (18) to total patients before 1900 (9,889), equals .18%. (Percentage of deaths to total patients almost doubled.)

22,082 total patients.

· ·

#### REPORTS OF

# CITY HOSPITAL,

#### WORCESTER, MASS.

-				
YEAR.	Total No. of Patients. Cases of Appendicitis.	Died,	Operation.	Total No. of All Ope- rations.
1890         1891         1892         1893         1893         1894         1895         1896         1897         1898         1899         1891	$\begin{array}{c} 957 & ? \\ 1,250 & 1 & (perforating) \\ 1,389 & ? \\ 1,389 & 5 \\ 1,306 & 9 \\ 1,520 & 13 \\ 1,520 & 13 \\ 1,709 & 19 \\ 1,582 & 25 \\ 1,739 & 47 \\ 1,777 & 56 \\ 2,035 & 57 \\ 2,142 & 62 \\ \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	? ? ? 13 11 18 47 46 50 48	$741 \\ 564 \\ 1,010 \\ 688 \\ 668$
1902 1903	$ \begin{array}{c} ? \\ 2,955 \\ 65 \\ \hline \\ 65 \\ \hline \\ \end{array} $	and the second se	47	953
1904	3,245       89         78 with abscess (2 died)       4 " general peritonitis (3 1 " pneumonia (0 died))         3 " pyaemia (3 died)       4 " abscess (1 died)	3 died) 	77	1,043
1905	3,891 148	9	121	1,140

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	Operation.	Total No. of All Ope- rations.
1906	4,200	79 "Appendicitis".         16 Acute.         13 " suppurative         2 " with perforation.         2 " catarrhal         8 " with abscess.	9	154	1,319
1900 and after.	18,468	583	39	497	4,811
Before 1900.	13,189	175	18	135	2,315
	31,667	632	57		7,126

## CITY HOSPITAL - Continued.

. .

#### REPORTS OF

### LAWRENCE GENERAL HOSPITAL,

#### LAWRENCE, MASS.

YEAR.	Total No. of Patients.	NUMBER OF CASES APPENDICITIS.	Died.	Operations.	Total No. of All Ope- rations.
1896 1897 1898 1899 1900 1901 1902 1903	$297 \\ 325 \\ 229 \\ 250 \\ 227 \\ 251 \\ 280 \\ 402$	$\begin{array}{c}1 \\ 6 \\ 4 \\ 13 \\ 6 \\ 5 \\ 7 \\ 22 \\ \end{array}$	$egin{array}{c} 0 \\ 1 \\ 1 \\ 0 \\ 0 \\ 0 \\ 1 \\ 1 \end{array}$	$\begin{array}{c} 0\\ 3\\ 4\\ 7\\ 4\\ 2\\ 4\\ 12 \end{array}$	$172 \\ 71 \\ 89 \\ 116 \\ 104 \\ 160 \\ 174 \\ 147 \\ 147 \\ 147 \\ 147 \\ 147 \\ 117 \\ $
1904 1905 1906	500 696 800	42 68 8 with general peritonitis, 4 died. 73	3 6 1	35 67 68	258 369 214
1900 1907	961	72 9 with general peritonitis, 4 died.	9	59	419
after. Before 1900.	4,117 1,101	295 24	21 2	251 14	1,845 448
	5,218	319	23	265	2,293

#### REPORT OF

### MASSACHUSETTS GENERAL HOSPITAL.

#### BOSTON, MASS.

Year.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	OPERATIONS.	Total Number of All Operations.
1893	3524	84 61 Acute, 10 died 4 Chronic, 0 died 16 Recurrent, 1 died 1 "After Appendici		71 13 died.	1641
1894	3406	tis," 1 died 130 103 Acute, 14 died 7 Chronic, 0 died 10 Recurrent, 0 died	14	101 12 died.	1798
1896	4304	188 121 Acute, 16 died 34 Chronic, 0 died 33 Recurrent, 0 died		157 15 died.	2294
1897	4079	191 92 not specified, 7 died 28 Acute, 11 died 3 Catarrhal, 0 died 50 Chronic, 3 died 18 Gangrenous, 3 died		176 23 died. 146 Appendicectomy 20 died. 30 Abscess 3 died.	1730
1898	4807	262 134 "Appendicitis," 7 died 103 " Acute 5 died 1 " Catarrhal 0 died 24 Appendiceal Ab- scess, 3 died		219 201 during attack 9 died. 18 Interval 2 died.	2103

### THE MORTALITY FROM APPENDICITIS ?

### MASSACHUSETTS GENERAL HOSPITAL - Continued.

1					
Year.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	OPERATIONS.	• Total Number of All Operations.
1899	4816	282 146 Acute, 9 died 19 " with general peritonitis, 15 died. 90 Chronic, 0 died 27 Catarrhal, 0 died		206 23 died. 60 Interval, 2 died.	2421
1900	4640	326 142 Acute, 10 died 37 Acute with general peritonitis, 27 died. 120 Chronic, 0 died 27 Catarrhal, 0 died		405 180 Acute, 11 died. 37 " with General Peritonitis, 27 died. 94 Interval Operation, 0 died. 94 Chronic, 0 died.	
1901	5094	333 146 Acute, 6 died 47 with general perito- nitis, 30 died. 93 Chronic, 0 died 47 Catarrhal, 0 died		330 30 died. 144 Acute Appendicitis, 5 died. 41 Acute with general peri- tonitis, 25 died. 20 Chronic, 0 died. 55 Catarrhal, 0 died.	2984 Major—1254
1902	4936	<ul> <li>361</li> <li>1 Acute with general peritonitis and intestinal obstruction, 1 died</li></ul>		<ul> <li>815</li> <li>28 died.</li> <li>136 Acute, 10 died.</li> <li>26 Acute with general peritonitis, 16 died.</li> <li>61 Chronic, 2 died.</li> <li>92 Catarrhal, 0 died.</li> </ul>	3266 Major—1328

#### HAS SURGICAL TREATMENT LESSENED

### MASSACHUSETTS GENERAL HOSPITAL-Continued.

Year.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	OPERATIONS.	Total Number of All Operations.
1903	5080	376 195 Acute, 8 died 36 Acute with General Peritonis, 16 died, 1 Acute with intestinal obstruction, 1 died. 34 Catarrhal, 0 died 110 Chronic, 0 died		421 23 died. During attack, 342—23 died. 188 Acute, 9 died. 21 " with general peritonitis, 14 died. 53 Chronic, 0 died. 70 Catarrhal, 0 died. Interval, 79, 0 died.	3109 Major—1374
1904	A CONTRACTOR OF	<ul> <li>427</li> <li>219 Acute, 6 died</li> <li>32 Acute with general peritonitis, 18 died.</li> <li>1 Acute with intestinal obstruction, 1 died.</li> <li>19 Catarrhal, 0 died</li> <li>133 Chronic, 0 died</li> </ul>		490 24 died. 356 during attack. 209 Acute, 8 died. 28 with general perito- nitis, 16 died. 55 Chronic, 0 died. 64 Catarrhal, 0 died.	3271 Major—1482
1905		439 218 Acute, 4 died 30 Acute, General Peri- tonitis, 15 died. 3 Internal obstruction, 3 died. 1 Acute with Mesen- teric Thrombosis, 0 died 58 Catarrhal, 0 died 129 Chronic, 1 died		460 24 died. 372 during attack. 212 Acute, 6 died. 29 with general perito- nitis, 15 died. 79 Chronic, 2 died. 55 Catarrhal, 0 died. 88 Interval, 0 died.	3182 Major—1439
1906		491 239 Acute, 9 died 23 Acute with General Peritonitis, 11 died. 70 Subacute, 0 died 159 Chronic, 0 died	20	537 20 died. 431 during attack. 224 Acute, 8 died. 22 Acute, with general peritonitis, 10 died. 111 Chronic, 1 died. 74 Subacute, 0 died. 62 Interval, 0 died. 44 Normal Appendix removed during other operation, 1 died.	2983 Major—1422

. .

#### REPORTS OF

### LYNN HOSPITAL,

### LYNN, MASS.

			Collection and		
YEAR.	Total No. of Patients.	No. of Cases of Appendicitis.	Died.	OPERATIONS,	Total No. of All Ope- rations.
1890	327	1	0	0	83
1891	385	2	0	1	81
1892	424	1	0	1	92
1893	435	6	1	5 ?	84
1894	465	9	5	9	116
1895	551	9	2	4	74
1896	638	22	1	14 (1 died).	274
1897	800	28	8	19 (8 died).	321
1898	772	14	5	10 (5 died).	314
1900	1,037	31	2	29 (2 died).	469
1901	1,047	38	4	35 (4 died).	498
1902	1,117	41	2	39 (2 died).	478
1903	1,263	22	0	?	389
1904	1,441	52	3	47 (3 died).	863
1905	1,721	51	9	50	972
1906	1,846	55	3	44 (3 died).	1,199
1900 and after.	9,462	290	23	244	4,968
Before 1900.	4,797	92	22	63	1,439
-	14,259	382	45	307	6,407

4

### REPORTS OF

# MALDEN HOSPITAL,

### MALDEN, MASS.

-					
YEAR.	Total No. of Patients.	Cases of Appendicitis.	DIED.	OPERATION.	Total No. of all Ope- rations.
1893 1894 1896 1897 1898 1898	$     \begin{array}{r}       100 \\       163 \\       183 \\       245 \\       248 \\       249 \\       249     \end{array} $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$     \begin{array}{c}       0 \\       1 \\       1 \\       0 \\       2 \\       0     \end{array} $	4 (0 died) 6 (0 died) 12 (2 died) 5 (0 died)	35 43 45 83 130 133
1900	307	12	1	11 (0 died)	111
1901	282		2	10 Acute (1 died)           4 Interval (0 died)           1 Abscess (0 died)	173
1902	295	16	1	7 Acute (1 died) 4 Interval (0 died) 1 Abscess (0 died)	173
1903	351	34	4	8 Interval 22 Acute (2 died) 1 Abscess 1 Septicaemia (1 died).	180
1904	389	45	3	42 (2 died)	152
1905	456		0	64 (0 died)	206
1906	542		1	69 (1 died)	264
1907	622		3	70 (3 died)	302
1900 and after.	2,937	316	14	304 (11 died)	1,429
Before 1900.	1,700	42	5	38 (3 died)	580
	4,637	358	19	842	2,009

## THE MORTALITY FROM APPENDICITIS? 51

1

. .

#### REPORTS OF

### PATERSON GENERAL HOSPITAL.

#### PATERSON, N. J.

YEAR.	Total No. of Patients,	NO. OF CASES APPENDICITIS.	DIED.	Operations.	Total No. of All Ope- rations.
1893	1,010	3	0	0	133
1894	961	3	0	0	284
1895	1,154	9	1	9	154
1896	1,510	11	2	3	391
1897	1,638	36	6	31	530
1898	1,628	19	2	12	556
1899	1,583	22	1	18	428
1900	1,562	27	3	15	465
1901	1,525	50	7	31	595
1902	1,517	31	6	29	456
1903	1,629	70	9	62	694
1904	1,553	36	4	47	527
1905	1,598	46	4	42	429
1906	1,760	60	5	59	519
1900 and after.	11,145	830	38	285	3,685
Before 1900.	9,484	103	12	73	2,476
	20,629	433	50	358	6,161

#### HAS SURGICAL TREATMENT LESSENED

#### REPORTS OF

### S. R. SMITH INFIRMARY,

NEW BRIGHTON, STATEN ISLAND, N. Y.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	OPERATION.	Total No. of All Ope- rations.
1895	571	16 10 2 died.	2	5 (2 died).	69
1896	589	16 14 2 died	2	11 (3 died).	201
1897	744	16         2 Catarrhal, 0 died         1 Chronic, 0 died         1 Gangrenous, 0 died         12 Suppurative, 4 died	4	17 (5 died).	236
1898	991	37 15 Acute Recurrent, 1 died 11 Suppurative, 3 died 1 Perforative, 0 died 2 Chronic, 0 died 3 Catarrhal, 0 died 4 Chronic Recurrent, 1 died. 1 Gangrenous, 0 died	5		307
1899	1,036	40 3 Acute Catarrhal, 0 died 16 Gangrenous, 6 died 16 Suppurative, 5 died 15 Recurrent, 0 died	11	44	294

#### THE MORTALITY FROM APPENDICITIS ?

#### Total No. of Patients. Total No. of All Ope-rations. DIED. OPERATIONS. YEAR. CASES OF APPENDICITIS. 1,125 16 80 5261900 . . . . 86 14 Acute Recurrent, 1 died... 20 Acute Catarrhal, 2 died... 28 Acute Gangrenous, 6 died. 24 Suppurative, 7 died ..... 54 323 1901.... 1,178 54 3 2 Acute Recurrent, 0 died . . 6 Chronic, 0 died..... 20 Acute Catarrhal, 1 died ... 33 Gangrenous, 2 died ..... 3 Suppurative, 0 died ..... 7 76 468 1,297 1902.... 83 28 Acute Catarrhal, 0 died ... 31 Acute Gangrenous, 6 died. 11 Acute Recurrent, 0 died ... 3 Acute Suppurative, 0 died. 9 Chronic, 1 died..... 1 Perforative, 0 died..... 1903 . . . . 1,584 7065 614 . . . . . . 19 Acute Catarrhal, 0 died... 25 Acute Gangrenous, 1 died. 1 Acute Recurrent, 0 died ... 9 Acute Suppurative, 1 died. 16 Chronic Recurrent, 0 died. 697 1,599 83 3 83 1904 . . . . 22 Acute Catarrhal, 1 died... 23 Chronic, 0 died..... 19 Gangrenous, 0 died ..... 19 Suppurative, 2 died .....

#### S. R. SMITH INFIRMARY - Continued.

#### HAS SURGICAL TREATMENT LESSENED

•

### S. R. SMITH INFIRMARY - Continued.

YEAR.	Total No. of Patients.		CASES OF APPENDICITIS.	Died.	Operations.	Total No. of All Ope- rations.
1905	1,884	20 7 36	94 Acute Catarrhal, 0 died Acute Suppurative, 1 died. Acute Gangrenous, 2 died. Chronic, 0 died	3	92	604
1906	2,418	37 3	117 Acute Catarrhal, 0 died Acute Gangrenous, 4 died. Acute Suppurative, 0 died. Chronic Recurrent, 0 died.	4	108	714
1907	2,685	38 7	109 Acute Catarrhal, ? died Acute Gangrenous, ? died. Acute Suppurative, ? died. Chronic, ? died	4	105	744
1900 and after.	13,770	696		40	663	4,690
Before 1900.	3,931	125	•••••	24	77	1,087
	17,701	821		64	730	5,777

#### REPORTS OF

#### ROOSEVELT HOSPITAL,

#### NEW YORK, N. Y.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	DIED.	Operations.	Total No. of All Ope- rations.
1889	2,754	12 8 Appendicitis, 0 died 3 Peritonitis, diffuse suppuration, 2 died 1 Sinus, 0 died	2	15 (2 died.)	1,779
1890	2,815	26 7 Acute Catarrhal, 0 died 11 Accute Suppurative, 0 died 1 " " and Recur- rent, 0 died 3 Acute Suppurative, Sinus, 0 died 2 Acute Catarrhal, Recurrent, 0 died 1 Acute with Suppuration, peri- tonitis and septic pneumo- nia, 1 died 1 Acute Gangrenous, perforation and General Peritonitis, 1 died	2	13 (1 died.)	1,231

LIST OF OPERATIONS.

1 Acute, Laparatomy, Excision. No drainage (0 died).

1 Acute with Abscess, Excision, opened and drained (0 died).

3 " Excision, opened and drained (0 died).

2 "with Abscess, Laparatomy. Appendix not found drained (0 died). 1 Recurrent, Appendix Excised (0 died).

1 Recurrent with abscess, Laparatomy, drained Appendix not found (0 died).

1 Recurrent with abscess, Lumbar incision and drainage (1 died).

2 Acute Appendicitis, Parker's drainage (0 died).

1 Perforation and Suppuration, medium Laparatomy (1 died).

### HAS SURGICAL TREATMENT LESSENED

.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	DIED.	Operations.	Total No.j of All Ope- rations.
1892	2,788	29 5 Acute Catarrhal 0 died 5 Acute Catarrhal Recurrent, 0 died 5 Acute Suppurative, 0 died 1 Acute Suppurative Recurrent, 0 died 10 Gangrenous, 5 died 2 Septic Peritonitis, 3 died.	8	32 (6 died.)	841
1893	2,720	349 Acute, 1 died.1 Shock, 1 died6 Peritonitis, 5 died.1 Intestinal Obstruction, 1 died.1 Catarrhal, 0 died.1 Suppuration, 0 died.4 Gangrenous, 1 died.1 "shock, 1 died.1 0 Recurrent, 1 died.	11	43 (10 died.)	989
1894	2,769	63 3 Catarrhal, 0 died 20 Acute, 0 died 5 General Peritonitis, 4 died 5 others, 1 died 1 Perforative, 1 died 15 Recurrent, 0 died 3 Relapsing, 0 died 1 Chronic, 0 died	6	59	1,074

## THE MORTALITY FROM APPENDICITIS ?

¥EAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	OPERATIONS.	Total No. of All Ope- rations.
1895	3,137	74 6 Catarrhal, 0 died 33 Acute, 0 died 2 Abscess, 0 died 1 Abscess with intestinal obstruc- tion, 1 died 1 Septicaemia, 1 died 7 General Peritonitis, 6 died 5 Progressive Peritonitis, 2 died. 4 others, 0 died 5 Chronic, 0 died 10 Recurrent, 0 died	10	75 (10 died.)	1,237
1896	2,987	85 2 Catarrhal, 0 died 35 Acute, 0 died 5 General Peritonitis, 2 died 3 Progressive Peritonitis, 2 died. 2 Acute with Acute Fecal Fis- tula, 0 died 5 others, 2 died 7 Chronic, 0 died 3 Recurrent, 0 died 3 Relapsing, 0 died	6	95 (6 died.)	1,196
1897	2,990	102 17 Acute Appendicitis, 0 died 28 Acute with Abscess, 4 died 11 Acute with General Peritonitis, 11 died 1 Acute with Lobar Pneumonia, 1 died 1 Acute with Chronic Nephritis, 1 died 1 Acute with Chronic Nephritis, 1 died 1 Acute with Tubercular Perito- nitis, 0 died 1 Acute with suppression of urine, 1 died 1 Subacute, 0 died 34 Recurrent, 0 died 7 Chronic, 0 died	18	108 (16 died, 7 of 7 with General Peritonitis, 4 Abscess.)	1,127

#### HAS SURGICAL TREATMENT LESSENED

1

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	Operations.	Total No. of All Ope- rations.
1898	3,443	124 22 Acute, 3 died 33 Acute, Abscess, 3 died 19 Acute with Suppuration, 14 died 38 Recurrent, 0 died 2 Subacute, 0 died 8 Chronic, 0 died 2 Chronic, Abscess, 0 died	19	107 (12 died.)	1,006
1899	8,093	137 10 Acute, 1 died 31 Acute with Abscess, 2 died 6 Acute with Septic Peritonitis, 4 died 2 Catarrhal, 0 died 4 Gangrenous, 2 died 67 Recurrent, 0 died 7 Recurrent with Abscess, 0 died. 8 Chronic, 0 died 1 Chronic Appendicitis, Abscess, 0 died 1 Chronic with Fecal Fistula, 0 died	12	129 (14 died.)	1,386
1900	3,076	141 19 Acute Appendicitis, 2 died 30 Acute with Abscess, 2 died 10 with General Peritonitis, 7 died. 12 Gangrenous, 3 died 17 Chronic, 1 died 49 Recurrent, 0 died 2 "Appendicitis," 0 died 2 Appendicular Colic, 0 died	15	137 (18 died.)	948

THE MORTALITY FROM APPENDICITIS? 59

YEAR.	Total No. of Patients.	Cases of Appendicitis.	Died.	Operations,	Total No. of All Ope- tions.
1901	3,584	116 8 Acute Catarrhal, 0 died 14 Acute Appendicitis, 1 died 35 Acute Appendicitis with Ab- scess, 5 died 13 Acute with General Peritonitis, 7 died 20 Recurrent, 0 died 21 Chronic, 0 died 5 "Appendicitis," 1 died	14	112 (13 died.)	1,250
1902	3,874	179 19 "Appendicitis," 1 died 7 Acute Catarrhal, 0 died 19 Acute Appendicitis, 0 died 7 Acute Appendicitis with Peri- tonitis, 2 died 10 Gangrenous, 3 died 5 Gangrenous, General Peritoni- tis, 2 died 44 Appendicitis with Abscess, 4 died 12 Subacute, 0 died 22 Chronic, 1 died 9 others, 0 died	13	176 (15 died.)	1,319
1903	3,856	<ul> <li>150</li> <li>27 "Appendicitis," 0 died</li> <li>2 with General Peritonitis, 2 died.</li> <li>21 Acute, 0 died</li> <li>13 Acute with General Peritonitis, 12 died</li> <li>6 Acute with General Spreading Peritonitis, 1 died</li> <li>54 with Abscess, 0 died</li> <li>27 others, 2 died</li> </ul>	17	170 (11 died.)	1,384

.

-	11				
YEAR.	Total No. of Patlents.	Cases of Appendicitis.	Died.	Operations.	Total No. of All Ope- rations.
1904	4,236	213 8 Catarrhal	12	220 (12 died.)	1,897
1905	4,034	223 45 "Appendicitis," 2 died 7 Gangrenous Appendicitis, 1 1 died 31 Acute Appendicitis 22 Acute Appendicitis with Spreading Peritonitis, 4 died. 9 with General Peritonitis, 7 died. 27 Chronic 56 Appendicitis with Abscess, 5 died 24 Catarrhal	19	220 (15 died.)	2,092
1906	4,404	201 14 Appendicitis 2 Appendicular Colic 54 Acute Appendicitis, 2 died 18 Subacute Appendicitis 48 Chronic Appendicitis 48 Appendicitis with Abscess, 2 died 7 Appendicitis with General Per- itonitis, 5 died 10 Acute with spreading Perito- nitis, 5 died	14	196 (16 died.)	1,959

YEAR.	Total No. of Patients.	Cases of Appendicitis.	Died.	Operations.	Total No. of All Ope- rations.
1900 and after.	27,064	1,223	104	1,231	8,952
Before 1900.	31,983	689	96	679	13,062
	59,047	1,912	200	1,910	22,014

### REPORTS OF GERMAN HOSPITAL,

### PHILADELPHIA, PA.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	OPERATIONS.	Total No. of All Ope- rations.
1891	1,568	Medical Report: 1 Typh- litis	0	0	151
1892	1,646	Medical Report : 3 Appen- dicitis Surgical Report : 5 Appendicitis, perfora- tive 2 Typhlitis (No operation.)	0 4	5 (4 died.) (Abdominal Section.)	425
1893		Medical Report : 2 Perityphlitis (1 died). 1 Appendicitis Surgical Report : 7 Appendicitis	1	1 (Abscess incised.) 5 (1 died.) (Abdominal Section.)	303
1894	1,885	Medical Report: 5. 3 Acute	6	13 Acute (6 died). 39 Chronic.	386
1895	1,882	Medical Report : 12. 8 Acute	7	10 Acute (5 died). 71 Chronic (2 died).	387
1896	2,026	Medical Report: 8 3 Acute 5 Chronic Surgical Report: 144 56 Acute (9 died) 88 Chronic (3 died)	12	49 Acute (7 died). 81 Chronic (3 died).	562

### THE MORTALITY FROM APPENDICITIS ?

#### GERMAN HOSPITAL-Continued.

-					
YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	OPERATIONS,	Total No. of All Ope- rations.
1899	2,404	Medical Report : 8 5 Acute 3 Chronic Surgical Report : 223 109 Acute (13 died) 114 Chronic (1 died)	14	102 Acute (13 died). 98 Chronic (1 died).	822
1900	2,714	Medical Report: 13(8 died) Surgical Report: 290 167 Acute (28 died) 123 Chronic (1 died)	37	2 (Appendicitis, Ab- scess.) (Abdominal Section.) 144 Acute (26 died).	937
1902	2,596	Medical Report: 3 1 Acute 2 Chronic Surgical Report: 447 290 Acute (38 died)		<ul><li>124 Chronic (1 died).</li><li>284 Acute (37 died).</li><li>153 Chronic (1 died),</li></ul>	1,210
1903	2,974	157 Chronic (1 died) Medical Report: 3 2 Acute 1 Chronic Surgical Report: 498 298 Acute (23 died) 200 Chronic (0 died)	23	285 Acute (22 died). 190 Chronic (0 died).	1,374
1904		Medical Report: 4 2 Acute 2 Chronic Surgical Report: 484 323 Acute (30 died) 161 Chronic (2 died)	32	304 Acute (25 died). 155 Chronic (2 died).	1,447
1905	2,973	Medical Report: 4 4 Acute (1 died) Surgical Report: 530 308 Acute (35 died) 222 Chronic (0 died)	36	302 Acute (33 died). 211 Chronic.	1,595

1\_\_\_\_\_

### GERMAN HOSPITAL - Continued.

YEAR.	Total No. of Patients.	CA	ses of A	PPENDICIT	ris.	Died.	. 0	PERATIO	DNS.	Total No. of All Ope. rations.
1906	3,376	Medic	al Repo	ort: 2						
			Acute.							
			Chroni			10	990 A	mto (1	5 3:03	1 770
			cal Repo			10		6 Chro	5 died). onic.	1,772
		275	Chroni	c						
1000 and	17 000	0.00*				105	0.74		1. 1.	0.005
1900 and after.	17,280	2,895.	•••••		•••••	185	2,74	9 (162	died).	8,635
Before 1900.	13,180	569.				44	475	(42 d	ied).	2,885
		No.		1.1.1						
	00.400	0.101			1.03	000	9 004	100.4	1: 1)	11 500
	30,460	5,404.	••••			229	5,224	(204	alea).	11,520
								4000		
	ses 1900						cute.	5 1900 Died.	AND AFT Chroni	
	cute. 1 180	Died. 28	Chronic. 123	Died.	1900.		146	26	124	1
	291	38	159	î	1902. 1903.			37 22	153 190	1
	300	23	201	2	1904.			25	155	2
	32 <b>5</b> 312	30 35	163     222	2	1905.			33	211	
	343	18	276		1906.	•••	329	. 15	266	
-		172				1	,650	158	1,099	4
								(9%)		
(0)		.8%) deaths	(40%)	(3%)	10.00			TORE 1	900.	
	(or an	ucatili	)		1892. 1893.		5 5	4	···. 1	
1891	1				1894.		13	6	39	
1892	10	4			1895.		10	5	72	2 3 1
	10 18	$\frac{1}{6}$	40	0	1896.		49	7	81	3
	22	3	85	4	1899.		102	13	98	1
	59	9	93	3			184	36(19	9%) 291	6
1	14	13	117	. 1			650	158	1,099	6 4
(41%) 2	34(15.3%	)36 (59	%) 335 (2	2,3%) 8		1	,834	194	1,390	10
1,7		172	1,144	4			(	10.5%)		(.7%)
							834	Acute,		
1,9	85 :	208	1,479	12		1	390		10	
(57	%) (1	0.4%)	(43%)	(.8%)		3,	224		204(6.3%	)

#### REPORTS OF

#### ST. LUKE'S HOSPITAL,

NEW YORK, N. Y.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.		Operations.	Total No. of All Ope- rations.
1893	2,122	16 13, 2 died, Acute 1, 0 died, Recurrent 2, 1 died, Chronic 3 died.			517
1894	2,300	38         13, 0 died, Acute         5, 0 died, Chronic         11, 3 died, Perforative         9, 0 died, Catarrhal         3 died.	13 5 11 7 36	(3 died) (3 died)	650
1895	1,870	17 10, 1 died, Acute 5, 4 died, Perforative 2, 0 died, Catarrhal 5 died.	5 1	(1 died) (4 died) (5 died)	452
1896	1,439	38         16, 2 died, Acute         5, 0 died, Chronic         1, 1 died, Perforative         6, 1 died, Catarrhal         4 died.		(2 died) (1 died) (2 died) (4 died)	481
1897	2,444	56 3, 0 died, Recurrent 15, 3 died, Acute 8, 0 died, Chronic 14, 0 died, Catarrhal 3, 3 died, Gangrenous 13, 2 died, Perforative 8 died.	$     \begin{array}{r}       3 \\       13 \\       8 \\       14 \\       3 \\       13 \\       \overline{54}     \end{array} $	(3 died) (3 died) (2 died) (8 died)	852

			-						
YEAR.	Total No. of Patients.			CASES	OF APPENDICITIS.		Operations.	•	Total No. of All Ope- rations.
1898	2,656	10,	0	died	51 Recurrent	10			1,068
		7, 2, 5, 2, 2, 25,	0 0 0 1 6	died, died, died, died,	Acute Chronic Catarrhal Gangrenous Perforative	7 2 5	(6	died) died) died)	
1899	2,474	36, 18, 7, 15, 3, 26, 1,	0 0 0 0	died, died, died, died, died,	106 Recurrent Acute Chronic Catarrhal Gangrenous Perforative urative Acute	$35 \\ 18 \\ 7 \\ 12 \\ 3 \\ 26 \\ 1$	(12	died) died)	1,056
1900	2,370		12	died.	129	102	(12	died)	1,166
		38, 1, 11, 17, 6, 10, 46,	$     \begin{array}{c}       0 \\       1 \\       0 \\       2 \\       6 \\       9     \end{array} $	died, died, died, died, died,	Recurrent Acute Chronic Catarrhal Gangrenous Perforative Suppurative	$\begin{array}{r}14\\6\\10\\46\end{array}$	(2) (6) (9)	died) died) died) died) died)	
1901	2,889	17, 66, 5, 4, 4, 27, 20, 17, 3, 3	0 0 0 0 0 2 0	died, died, died, died, died, died, died,	163 Acute Chronic Catarrhal Gangrenous Perforative Recurrent Suppurative Acute with Abscess with General Perito- nitis	$17 \\ 65 \\ 5 \\ 3 \\ 4 \\ 27 \\ 20 \\ 17 \\ 3$		died) died)	1,281
			5	died.		161		died)	

### ST. LUKE'S HOSPITAL - Continued.

### ST. LUKE'S HOSPITAL - Continued.

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$								
1903 2,642 = 215 = 1,584 = 1,584 = 2,745 = 203 = 1,584 = 1,584 = 1,1,1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	YEAR.	Total No. of Patients.		Cases	OF APPENDICITIS.		Operations.	Total No. of All Ope- rations.
$1903 \dots 2,745 = 203 \\ 1904 \dots 2,745 = 203 \\ 2,745 = 204 \\ 2,745 = 204 \\ 2,745 = 204 \\ 2,745 = 204 \\ 2,745 = 204 \\ 2,745 = 204 \\ 2,745 = 204 \\ 2,745 = 204 \\ 2,745 = 204 \\ 2,745 = 204 \\ 2,745 = 204 \\ 2,745 = 204 \\ 2,745 = 204 \\ 2,745 = 204 \\ $	1902	2,637						1,383
$1903 \dots 2,745 = \begin{array}{c} 4, 0 \text{ died, Acute Catarrhal.} \\ 4, 0 \text{ died, Gangrenous} \\ 5, 0 \text{ died, Recurrent} \\ 11, 0 \text{ died, Recurrent} \\ 3, 0 \text{ died, General Peritonitis} \\ 5, 0 \text{ died, General Peritonitis} \\ 5, 0 \text{ died, Abscess} \\ 13, 0 \text{ died, Abscess} \\ 159 (5 \text{ died) \\ 159 (5 \text{ died}) \\ 159 (5 \text{ died}) \\ 159 (5 \text{ died}) \\ 1, 0 \text{ died, Gangrenous} \\ 1, 0 \text{ died, General Peritonitis, } \\ (2) \text{ probably Chronic } \\ 1, 0 \text{ died, Recurrent} \\ 1, 0 \text{ died, Subacute} \\ 1004 \dots \\ 2,745 \\ 22, 2 \text{ died, Subacute} \\ 2, 2 \text{ died, Acute Catarrhal} \\ 19 (2 \text{ died}) \\ 213 (11 \text{ died}) \\ 213 (11 \text{ died}) \\ 213 (2 \text{ died}) \\ 20, \text{ Recurring} \\ 213 (2 \text{ died}) \\ 20, \text{ Recurring} \\ 20, \text{ died} \\ 314 (1 \text{ died}) \\ 314 (1 \text{ died}) \\ 314 (1 \text{ died}) \\ 314 (1  $						1000	· · · /	
$1903 \dots 2,642 = 215 \\ 3, 0 \text{ died, Gangrenous} \dots 3 \\ 18, 2 \text{ died, Suppurative} \dots 18 (2 \text{ died}) \\ 5, 0 \text{ died, General Peritonitis} \dots 5 \\ 13, 0 \text{ died, Abscess} \dots 13 \\ \hline 5 \text{ died} \dots 15 \\ \hline 5 \text{ died} \dots 15 \\ \hline 5 \text{ died} \dots 15 \\ \hline 5 \text{ died} \text{ Gangrenous} \dots 18 \\ \hline 1 \text{ died} \text{ Gangrenous} \dots 18 \\ \hline 1 \text{ died} \text{ Gangrenous} \dots 18 \\ \hline 1 \text{ died} \text{ Gangrenous} \dots 18 \\ \hline 1 \text{ died} \text{ Gangrenous} \dots 15 \\ \hline 1 \text{ died} \text{ Gangrenous} \dots 15 \\ \hline 1 \text{ died} \text{ Gangrenous} \dots 5 \\ \hline 1 \text{ died} \text{ Gangrenous} \dots 5 \\ \hline 1 \text{ died} \text{ Gangrenous} \dots 5 \\ \hline 1 \text{ died} \text{ Subacute} \dots 5 \\ \hline 1 \text{ died} \text{ Subacute} \dots 5 \\ \hline 1 \text{ died} \text{ Subacute} \dots 5 \\ \hline 1 \text{ died} \text{ math abscess} \\ \hline 1 \text{ died} \text{ for formins} \\ \hline 2 \text{ for died} \text{ for died} \text{ for died} \\ \hline 2 \text{ for died} \text{ for died} \text{ for died} \\ \hline 2 \text{ for died} \text{ for died} \text{ for died} \text{ for died} \\ \hline 1 \text{ for died} $							(2 alea)	
$1903 2,642 = 215 \\ 5, 0 \text{ died, Gangrenous} \\ 13, 0 \text{ died, Recurrent} \\ 13, 0 \text{ died, Abscess} \\ 159 (5 \text{ died)} \\ 159 (0 \text{ died, Acute Catarrhal} \\ 10 \text{ died, Gangrenous} \\ 11 \text{ died, Babacute} \\ 1004 \\ 2,745 (2 \text{ died, Recurrent} \\ 1004 \\ 2,745 (2 \text{ died, Acute Catarrhal} \\ 19 (2 \text{ died}) \\ 2, with gerforation \\ 2 (11 \text{ died}) \\ 2, with gerforation \\ 2 (11 \text{ died}) \\ 2, with Gangrene, 3 \text{ died} \\ 27 (3 \text{ died}) \\ 2, with Gangrene, 3 \text{ died} \\ 17 (3 \text{ died}) \\ 20, \text{ Recurring} \\ 17 \\ 13, \text{ Subacute} \\ 9 \\ 14, 1 \text{ died, Subacute, with Abscess} \\ 14 (1 \text{ died}) \\ 0, \text{ Recurring} \\ 17 \\ 14 (1 \text{ died}) \\ 1004 \text{ died} \\ 14 (1 \text{ died}) \\ 1004 \text{ died} \\ 100 \text{ died} \\ 1$								
$1903 \dots \begin{array}{c} 3, 0 \text{ died, Recurrent} \dots \\ 18, 2 \text{ died, Suppurative} \dots \\ 5, 0 \text{ died, General Peritonitis} \dots \\ 13, 0 \text{ died, Abscess} \dots \\ 13, 0 \text{ died, Abscess} \dots \\ 13 \end{array} \\ \hline 5 \text{ died.} \end{array} \begin{array}{c} 13 \\ 159  (5 \text{ died}) \\ 1004 \dots \\ 159  (2 \text{ died}) \\ 1004 \dots \\ 1004$								
1903 2,642   18, 2 died, Suppurative 18, (2 died) 5, 0 died, General Peritonitis 13, 0 died, Abscess 13, 159 (5 died) 5, 0 died, Acute Catarrhal 53, (4 died) 46, 6 died, Acute Suppurative 46, (6 died) 5, 0 died, " " " with perforation 5, 0 died, General Peritonitis, (?) probably Chronic 95, 0 died, General Peritonitis, (?) probably Chronic 1, 0 died, Recurrent 5, 0 died, Subacute 5, (4 with abscess) 11 died. 213 (11 died) 213 (11 died) 22, with perforation 5, (4 with abscess) 11 died, Gangrene, 3 died 27 (3 died) 2, with General Periton 2 (0 died) 27, with Gangrene, 3 died 27 (3 died) 7, 5 died, with General Periton 9 14, 1 died, Subacute, with Abscess 14 (1 died) 9 14, 1 died, Subacute, with Abscess 14 (1 died) 9 14, 1 died, Subacute, with Abscess 14 (1 died) 9 14, 1 died, Subacute, with Abscess 14 (1 died) 9 14, 1 died, Subacute, with Abscess 14 (1 died) 9 14, 1 died, Subacute,								
$1903 2,642 = 215 \\ 55, 4 \text{ died, Acute Catarrhal} 5 \\ 13, 0 \text{ died, Abscess} \\ 5 \text{ died, Acute Supprative} \\ 46, 6 \text{ died, Acute Supprative} \\ 55, 4 \text{ died, Acute Supprative} \\ 55, 4 \text{ died, Acute Supprative} \\ 50 \text{ died, acute Supprative} \\ 5, 0 \text{ died, acute Supprative} \\ 5, 0 \text{ died, Gangrenous} \\ 5, 0 \text{ died, Gangrenous} \\ 8, 1 \text{ died, Gangrenous} \\ 95, 0 \text{ died, General Peritonitis,} \\ (?) \text{ probably Chronic } 95 \\ (0 \text{ died }?) \\ 1, 0 \text{ died, Recurrent} \\ 15, 0 \text{ died, Subacute} \\ 5 \\ 11 \text{ died.} \\ 213 (11 \text{ died}) \\ 22, 2 \text{ died, Acute Catarrhal} \\ 1904 \\ 2,745 \\ 22, 2 \text{ died, Acute Catarrhal} \\ 19 ( 2 \text{ died}) \\ 2, \text{ with perforation} \\ 213 (11 \text{ died}) \\ 2, \text{ with perforation} \\ 213 (2 \text{ died}) \\ 2, \text{ with general Periton its} \\ 1904 \\ 20, \text{ Recurring} \\ 17 \\ 5 \text{ died, with Gangrene, 3 died} \\ 27 \\ ( 3 \text{ died}) \\ 7, 5 \text{ died, with General Periton its} \\ 17 \\ 13, \text{ Subacute} \\ 17 \\ 14, 1 \text{ died, Subacute, with Abs} \\ 14 \\ ( 1 \text{ died}) \\ 60 \\ ( 0 \text{ died}) \\ 14 \\ ( 1 \text{ died}) \\ 14 \\ 1 \\ 1 \\ 16 \\ 60 \\ ( 0 \text{ died}) \\ 15 \\ 14 \\ 1 \\ 1 \\ 16 \\ 14 \\ 1 \\ 1 \\ 16 \\ 14 \\ 1 \\ 1 \\ 1 \\ 16 \\ 14 \\ 1 \\ 1 \\ 1 \\ 1 \\ 16 \\ 14 \\ 1 \\ 1 \\ 1 \\ 1 \\ 16 \\ 14 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 16 \\ 16$							(2 died)	
1903       2,642       215       55, 4 died, Acute Catarrhal       53 (4 died)       1,584         1903       2,642       215       53 (4 died)       46 (6 died)       1,584         1903       46, 6 died, Acute Suppurative       53 (4 died)       46 (6 died)       1,584         1903       5, 0 died, Caure Suppurative       5       53 (4 died)       1,584         1904       5, 0 died, General Peritonitis,       5       6 (0 died)       1         95, 0 died, General Peritonitis,       (?) probably Chronic       95 (0 died?)       1         1, 0 died, Recurrent       1       1       5       1         104       2,745       203       213 (11 died)       1         1904       2,745       203       213 (11 died)       1         1904       2,745       203       2 (0 died)       1       2 (0 died)       1         1904       2,745       203       2 (0 died)       2 (0 died)       1			5,					
1903       2,642       215       1,584         55, 4 died, Acute Catarrhal       53 (4 died)       46, 6 died,         46, 6 died, Acute Suppurative       46 (6 died)       5         5, 0 died, " " "       5       8 (1 died)         95, 0 died, General Peritonitis,       7       95         95, 0 died, General Peritonitis,       95       0 died, Recurrent			13,	0 died,	Abscess	13		
$1904 2,745 \begin{bmatrix} 203 \\ 22, 2 & died, & Acute Catarrhal \\ 46, 6 & died, & Acute Suppurative \\ 5, 0 & died, & " & " \\ & with perforation \\ 8, 1 & died, & Gangrenous \\ 95, 0 & died, & General Peritonitis, \\ (?) probably Chronic \\ 95, 0 & died, & Recurrent \\ 1, 0 & died, & Recurrent \\ 5, 0 & died, & Subacute \\ (4 & with abscess) \\ \hline 11 & died. \\ 22, 2 & died, & Acute Catarrhal \\ 19 & (2 & died) \\ 2, & with perforation \\ 2, & with perforation \\ 2, & with gangrene, 3 & died \\ 20, & Recurring \\ 10, & Subacute \\ 11, & 1 & died, & Subacute, & 19 \\ 11, & 1 & 10 \\ 13, & Subacute \\ 14, & 1 & died, & Subacute, & 17 \\ 13, & Subacute \\ 14, & 1 & died, & Subacute, & 14 \\ 14 & (1 & died) \\ 14, & 1 & died, & Subacute, & 14 \\ 14 & (1 & died) \\ 14, & 1 & died, & Subacute, & 14 \\ 14 & (1 & died) \\ 14, & 1 & died, & Subacute, & 14 \\ 14 & (1 & died) \\ 14, & 1 & died, & Subacute, & with & Ab \\ 14, & 1 & died, & Subacute, & with & Ab \\ 14, & 1 & died, & Subacute, & with & Ab \\ 14, & 1 & died, & Subacute, & with & Ab \\ 14, & 1 & died, & Subacute, & with & Ab \\ 14, & 1 & died, & Subacute, & with & Ab \\ 14, & 1 & died, & Subacute, & 0 \\ 14, & 1 & died, & Subacute, & 0 \\ 14, & 1 & died, & Subacute, & 0 \\ 14, & 1 & died, & Subacute, & 0 \\ 14, & 1 & died, & Subacute, & 0 \\ 14, & 1 & died, & Subacute, & 0 \\ 14, & 1 & died, & Subacute, & 0 \\ 14, & 1 & died, & Subacute, & 0 \\ 14, & 1 & died, & 0 \\ 14, & 1 &$				5 died.		159	(5 died)	
$1904 2,745 \begin{bmatrix} 46, 6 & died, Acute Suppurative & 46 & (6 & died) \\ 5, 0 & died, & & & & \\ with perforation & 5 \\ 8, 1 & died, Gangrenous & 8 & (1 & died) \\ 95, 0 & died, General Peritonitis, & (?) probably Chronic & 95 & (0 & died?) \\ 1, 0 & died, Recurrent & 1 \\ 5, 0 & died, Subacute & 5 \\ \hline 11 & died. & 213 & (11 & died) \\ 22, 2 & died, Acute Catarrhal & 19 & (2 & died) \\ 35, 2 & died, & & Suppurative & 35 & (2 & died) \\ 2, & with perforation & 27 & (3 & died) \\ 2, & with generation & 27 & (3 & died) \\ 7, 5 & died, & with General Peritonitis & 7 & (5 & died) \\ 20, & Recurring & 17 \\ 13, & Subacute & 9 \\ 14, 1 & died, & Subacute, & with Ab- \\ & & scess & 14 & (1 & died) \\ 63, & Chronic & 60 & (0 & died) \\ \hline \end{pmatrix}$	1903	2,642						1,584
$1904 2,745 = 203 \\ 2,745$								
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						46	(6 died)	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			, э,	0 died,		5		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			8	1 died			(1 diad)	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$							(1 mea)	
1, 0 died, Recurrent.       1         5, 0 died, Subacute.       5         (4 with abscess)       1         11 died.       213 (11 died)         22, 2 died, Acute Catarrhal.       19 (2 died)         35, 2 died, " Suppurative.       35 (2 died)         2, with perforation.       2 (0 died)         27, with Gangrene, 3 died.       27 (3 died)         7, 5 died, with General Peritonitis.       7 (5 died)         13, Subacute.       9         14, 1 died, Subacute, with Absscess.       14 (1 died)         63, Chronic.       60 (0 died)			,	·,			(0 died ?)	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$			1,	0 died,	Recurrent		. ,	
1904 $2,745$ $203$ 22, 2 died, Acute Catarrhal       19 (2 died)          35, 2 died, " Suppurative $35$ (2 died)          2, with perforation       2 (0 died)          2, with Gangrene, 3 died       27 (3 died)          7, 5 died, with General Peritonitis       7 (5 died)          13, Subacute			5,	0 died,		5		
1904       2,745       203          22,       2 died, Acute Catarrhal       19 (2 died)          35,       2 died, "Suppurative       35 (2 died)          2, with perforation       2 (0 died)        27 (3 died)         27, with Gangrene, 3 died       27 (3 died)        7 (5 died)         13, Subacute       9        9         14, 1 died, Subacute, with Ab- scess       14 (1 died)       60 (0 died)					(4 with abscess)			
22, 2 died, Acute Catarrhal       19 (2 died)         35, 2 died, "Suppurative       35 (2 died)         2, with perforation       2 (0 died)         27, with Gangrene, 3 died       27 (3 died)         7, 5 died, with General Peritonitis       7 (5 died)         20, Recurring       17         13, Subacute				11 died.		213	(11 died)	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1904	2,745						
2, with perforation2 ( 0 died)27, with Gangrene, 3 died27 ( 3 died)7, 5 died, with General Peritonitis7 ( 5 died)20, Recurring1713, Subacute914, 1 died, Subacute, with Absoccess14 ( 1 died)63, Chronic60 ( 0 died)								
27, with Gangrene, 3 died       27 ( 3 died)         7, 5 died, with General Peritonitis       7 ( 5 died)         20, Recurring       17         13, Subacute       9         14, 1 died, Subacute, with Absoccess       14 ( 1 died)         63, Chronic       60 ( 0 died)								
7, 5 died, with General Peritonitis								
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						100 C 100 C	( o alea)	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			.,	o areay			( 5 died)	
13, Subacute       9         14, 1 died, Subacute, with Ab-       9         63, Chronic       14 (1 died)         60 (0 died)		-	20,	Recurri				
$63, \underline{\text{Chronic}} \\ 63, \underline{\text{Chronic}} \\ 63, \underline{\text{Chronic}} \\ 60 \\ \underline{60 \\ 0 \\ \underline{60} \\ 0 \\ \underline{60} \\ \underline{60} \\ 0 \\ \underline{60} \\ $						9		
63, <u>Chronic</u> <u>60</u> ( <u>0</u> died)			14,	1 died,				
			0.0	(Ihan i			1 / ]	
14 died. 191 (13 died)		Brian	03,	Chronic	·····	60	( 0 died)	
				14 died.		191	(13 died)	

ST. LUKE'S HOSPITAL - Cor	tinued.
---------------------------	---------

YEAR.	Total No. of Patients.	Cases of Appendicitis.		Operations.	Total No. of All Ope- rations.
1905	2,809		7		1,508
		11, Acute Catarrhal 20, 4 died, Acute Suppurative	$\begin{array}{c} 7\\20 \end{array}$	(4 died)	
		2, with Perforation	2	()	
		29, 1 died, with Gangrene	29	(1 died)	
		11, 7 died, with General Perito-	11	(7 1. 1)	
		nitis	11	(7 died)	
		7, Subacute	89 7		
,		5, with Abscess	7 5		
		1, Appendiceal Adhesions	1		
		13 died.	171	(12 died)	
1906	3,170	291	-		1,650
	,	2, Appendicular Colic	0	4.4.1.1.1.1.1.1.1	
		15, Acute Catarrhal	13	( 2 died)	
		<ul><li>25, 2 died, Acute Suppurative</li><li>4, with Perforation</li></ul>	4		
		4, with Perforation 45, 3 died, Acute Gangrenous	45	( 3 died)	
		21, 11 died, with General Perito-		( s area)	
		nitis	21	(11 died)	
		35, Subacute, 1 died	34	(0  died)	
		14, 3 died, with Abscess	14	$\begin{pmatrix} 3 & \text{died} \end{pmatrix}$	
		128, <u>Chronic</u>	127	( 0 died)	
		19 died.	258	(19 died)	
1907	3,467	140			1,698
		10, 0 died, Acute Catarrhal	10		
		12, Suppurative, 1 died	12	(1 died)	
		26, 3 died, Gangrenous 1. Perforative	$     \frac{26}{1} $	(3 died)	
		1, Perforative21, with Abscess	21		
		18, 2 died, with General Perito-			
		nitis	18	(2 died)	
		15, Subacute	15		
		37, Chronic	37		
	-	6 died.	140	(6 died)	

# ST. LUKE'S HOSPITAL - Continued.

YEAR.	Total No. of Patients.		CASES OF APPENDICITIS.	Operations.	Total No. of All Ope- rations.
1900 and after	22,729	1,477	( 91 died)	1,419	10,270
Before 1900	15,305	322	( 42 died)	294	5,076
	38,034	1,799	(133 died)	1,713	15,346

#### 1900 and After.

CASES.

		Severe.		Mild.			
		Suppurative ; Gangrenous ; Perforative ; Abscess.		Acute Catarrhal; ppendicular Colic.			
1900	62	(17 died)	67	(1 died)			
1901	48	( 5 died)	115				
1902	40	(2 died)	131	(6 died)			
1903	59	(7 died)	61	(4 died)			
1904	71	(10 died)	132	(3 died)			
1905	67	(12 died)	108				
1906	109	(19 died)	130	(2 died)			
1907	78	(6 died)	52				
	534 (38	%) 78 (14%)	846	16 (68%)			
		Before 19	900.				
1893			16	(3 died)			
1894	20	( 3 died)	18				
1895	5	(4 died)	12	(1 died)			
1896	5 7	(2 died)	21	(2 died)			
1897	3	(3 died)	40	(3 died)			
1898	27	(7 died)	24				
1899	30	(12 died)	76				
	$\overline{92}$ (30	%) 31 (33%)	207	9 died (43%)			

.

# REPORTS OF

# NEW YORK HOSPITAL,

#### NEW YORK CITY.

YEAR.	Total No. of Patients.	Cases of Appendicitis.	Died.	OPERATIONS.	Total No. of All Ope- rations.
1891 1893 1894 1895 1896 1897 1898 1898 1899 1900 1901 1901 1903 1904 1905 1906 1900 and after. Before 1900.	$\begin{array}{r} 4,711\\ 4,764\\ 4,878\\ 5,320\\ 5,405\\ 5,196\\ 5,898\\ 6,060\\ 6,625\\ 6,375\\ 7,413\\ 7,257\\ 7,167\\ 8,145\\ 9,377\\ 52,359\\ 37,521\\ \end{array}$	$\begin{array}{c} 37 \\ 53 \\ 50 \\ 81 \\ 71 \\ 89 \\ 102 \\ 110 \\ 128 \\ 173 \\ 227 \\ 229 \\ 232 \\ 182 \\ 1,281 \\ \end{array}$	$2 \\ 4 \\ 5 \\ 6 \\ 11 \\ 12 \\ 9 \\ 19 \\ 16 \\ 12 \\ 9 \\ 14 \\ 21 \\ 25 \\ 8 \\ 103 \\ 68$	15 (3 died) 22 (1 died) 39 (6 died) 41 (8 died) 17 (2 died) 58 (8 died) 76 (10 died). 80 (15 died). 106 (10 died). 106 (10 died). 143 (10 died). 196 (15 died). 201 (17 died). 201 (17 died). 211 (23 died). 182 (10 died). 1,149 (101 died). 368 (53 died).	1,437
	89,880	1,776	173	1,517 (154 died).	19,345

#### REPORTS OF

# ST. FRANCIS HOSPITAL,

NEW YORK CITY.

YEAR.	Total No. of Patients.	NO. OF CASES APPENDICITIS.	Died.	OPERATIONS.	Total No. of All Ope- rations.
1894	2,488	13 10 died	10	21	330
1895	2,382	15 7 died	7	12	417
1896	2,221	19 2 died	2	11	264
1897	2,221	17 8 Suppurative, 0 died 8 Catarrhal, 0 died 1 Recurrent, 0 died	0	14 (0 died.)	310
1898	2,532	17 3 Catarrhal, 0 died 12 Suppurative, 0 died 2 Recurrent, 1 died	1	14 (0 died.)	311
1900	2,829	29 8 Catarrhal, 0 died 13 Suppurative, 4 died 6 Gangrenous, 2 died 2 Recurrent, 0 died	6	18 (3 died.)	409
1901	2,461	28 9 Catarrhal, 0 died 15 Suppurative, 2 died 4 Gangrenous, 2 died	4	27 (3 died.)	490
1902	2,394	19 9 Catarrhal, 0 died	4	?	349

# HAS SURGICAL TREATMENT LESSENED

1

YEAR.	Total No. of Patients.	NO. OF CASES APPENDICITIS.	Died.	OPERATIONS.	Total No. of All Ope- tions.
1903	2,563	46 15 Catarrhal, 1 died 23 Suppurative, 5 died 8 Gangrenous, 1 died	7	26 (2 died.)	913
1906	1,432	44 1 Adhesial 25 Catarrhal 16 Suppurative 2 Gangrenous	0	43 (0 died.)	477
1900 and after.	11,679	166	21	114	2,638
Before 1900.	11,844	81	20	72	1,632
	23,423	274	41	186	4,270

### ST. FRANCIS HOSPITAL - Continued.

#### REPORTS OF

## J. HOOD WRIGHT MEMORIAL HOSPITAL,

### NEW YORK, N. Y.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	Operations.	Total No. of All Ope- rations.
1896	975	17	9	16	313
1897	951	10	2	14.	198
1898	1,106	32	4	30	350
1899	1,081	23	2	23	484
1900	1,276	48	7	(1 died.) 39	491
1901	1,176	30 9 Acute, 0 died 12 Gangrenous 4 Abscess, 0 died 4 General Peritonitis, 1 died 1 Chronic, 0 died	1	(3 died.) 27 (1 died.)	426
1902	945	51 15 Acute 13 Acute Gangrenous 15 Acute Abscess 7 Acute with General Peritonitis 1 Chronic	0	43 (0 died.) 5 Acute 3 Interval 14 Acute Gangrenous. 16 " Abscess 4 " General Per- itonitis 1 Recurrent	552

73

# J. HOOD WRIGHT MEMORIAL HOSPITAL - Continued.

Year,	Total No. of Patients.	Cases of Appendicitis.	OPERATIONS.	Total No. of All Ope- rations.
1903	1,031	52 9 Acute Catarrhal 7 Acute Gangrenous 16 Acute Gangrenous, Ab- scess 13 Acute Gangrenous, Ab- scess 13 Acute Gangrenous, Ab- general Peritonitis, 7 died 2 Acute, Gangrenous, 7 General Peritonitis and intestinal ob- struction, 1 died 1 Acute Gangrenous, Ty- phoid Fever 1 Multiple Abscess Liver, 1 died 3 Chronic 9 died.	<ul> <li>with spreading per- itonitis</li></ul>	466
1904	1,262	42 11 Acute Catarrhal 5 Acute Gangrenous 1 Acute Gangrenous 1 Acute Gangrenous, General Peritonitis, 1 died 9 Gangrenous and Ab- scess 9 Gangrenous and Ab- scess 1 Gangrenous, Abscess and acute intestinal obstruction 7 Gangrenous and Gen- eral Peritonitis, 1 died. 1 Gangrenous, Abscess, Septicaemia, 1 died. 1 Recurrent 3 died.	<ul> <li>6 Acute Gangrenous</li> <li>2 Acute Gangrenous and spreading Peritoni- tis, 1 died</li> <li>8 Acute Gangrenous, Abscess</li> <li>1 Acute Gangrenous, Abscess and advanc- ing Peritonitis</li> <li>7 Chronic</li> </ul>	

### THE MORTALITY FROM APPENDICITIS? 75

# J. HOOD WRIGHT MEMORIAL HOSPITAL - Continued.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	OPERATIONS.	Total No. of All Ope- rations.
1905	1,608	<ul> <li>75</li> <li>31 Acute Catarrhal</li> <li>14 Acute Gangrenous, 1 died</li> <li>6 Acute Gangrenous, Abscess</li> <li>1 Acute Gangrenous, Abscess and Delirium Tremens, 1 died</li> <li>2 Acute Gangrenous and Empyema</li> <li>5 Acute Gang r e n o u s, General Peritonitis, 4 died</li> <li>1 Chronic Gangren o u s and General Peritonitis, 1 died</li></ul>	<ol> <li>Traumatic</li> <li>Acute Gangrenous, 1 died</li> <li>Acute Gangrenous and Abscess</li> <li>Acute Gangrenous and advancing peritonitis</li> <li>Acute Gangrenous, De- lirium Tremens, 1 died</li> <li>Acute Gangre n o u s , General Peritonitis, 4 died</li></ol>	396
1906	1,569	63 18 Acute Catarrhal 12 Acute Gangrenous and Abscess, 1 died 2 Acute Gangrenous, Ab- scess and advancing peritonitis, 1 died 2 Acute Gangrenous and advancing peritoni- tis 4 Acute Gangrenous a, General Peritonitis, 3 died 1 Interval 1 Recurrent 6 died.	<ol> <li>Suppurative</li> <li>Acute Gangrenous, 1 died</li> <li>Acute Gangre nous, Abscess, 1 died</li> <li>Acute Gangrenous, General Peritonitis, 2 died</li> <li>Chronic</li> <li>Interval</li> </ol>	418

.

# J. HOOD WRIGHT MEMORIAL HOSPITAL-Continued.

YEAR.	Total No. of Patients.	Cases of Appendicitis.		OPERATIONS.	Total No. of All Ope- rations.
1907	1,331	50 15 Acute Catarrhal 1 Acute Catarrhal, Tu- bercular Peritonitis. 9 Gangrenous 11 " with Ab- scess 1 Gangre n o u s w i t h Broncho Pneumonia, 1 died 4 Gangrenous with Sep- ticaemia, 1 died 2 Gangrenous with Py- osalpinx 1 Recurrent 2 Acute Suppurative		57 (2 died). 15 Acute Catarrhal 3 Acute Suppurative 15 Acute Gangrenous 5 Acute Gangrenous, Abscess 1 Acute Gangre n o u s with advancing Per- itonitis 3 Acute Gangrenous, General Peritonitis, 1 died 1 Acute Gangrenous, Septicaemia, 1 died. 5 Chronic	397
1900 and after.	10,198		ied. 35 8	332	3,569
Before 1900.	4,113	82 1	17	83	1,345
	14,311	493 5	52 4	415	4,914

#### REPORTS OF

### HARTFORD HOSPITAL,

### HARTFORD, CONN.

YEAR.	Total No. of Patients.	No. of Cases of Appendicities.	Died.	Operations.	Total No. of All Ope- rations.
1893	1,169	7	0	2	320
1894	1,151	11	1	9	398
1895	1,295	22	1	16	480
1896	1,563	47	3	44	507
1897	1,558	55	5	51	508
1898	1,622	46	6	34	588
1899	1,714	40	4	30	678
1900	2,030	55	5	44	810
1901	2,012	42 2 with General Peritonitis	3	40	772
1902	2,116	89 61 Catarrhal 28 Suppurative	12	73	741
1903	2,388	107 78 Catarrhal		95	718
1904	1,992	106	3	78	

•\_\_\_\_

# HARTFORD HOSPITAL - Continued.

YEAR.	Total No. of Patients.	NO OF CASES OF APPENDICITIS.	DIED.	Operations.	Total No. of All Ope- rations.
1905	1,887	107 103 Acute, 1 died 4 " with General Peritoni- tis, 3 died	4	103	871
1906	2,074	143 140 Acute, 2 died 3 " with General Peritoni- tis, 3 died	5	134	747
1907	2,491	174 160 Acute, 1 died 14 " with General Peritoni- tis, 10 died	18	193	939
1900 and after.	16,990	823	50	745	5,598
Before 1900.	10,072	228	20	186	3,856
	27,062	1,051	70	931	9,454

#### REPORTS OF

### AUGUSTANA HOSPITAL,

# A. J. OCHSNER,

CHICAGO, ILL.

Surgeon-in-Chief.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS. OPERATIONS.	Total No. of All Ope- rations.
1898	1,225	53 53 53 (2 died) (2 died)	735
1899		103     103       (3 died)     (5 died)	1,199
1900	1,506	142     142       50, 1 died, Acute, with Perforation or Gangrene     (5 died)       9, 4 died, Acute with General Peritonitis     (5 died)       57, Chronic and Recurrent     7, Implicating Adnexa       5 died.     5 died.	1,311
1901	1,589	2482468, 5 died, Acute, with General Peritonitis24642, 2 died, Acute, with Perfor- ation or Gangrene(8 died)38, Acute, without Perforation1 Chronic and 1 Acute with General Peri- tonitis99, 1 died, Chronic(0, 1 died, Implicating Adnexa40, 1 died, Implicating Adnexa(not operated)12, Appendicitis and Cholecystitis 8, " " Cholelithiasis 1, " " Movable Kid- ney(not operated)9 died,9 died,	1,398

YEAR	Total No. of Patients.	CASES OF APPENDICITIS.	OPERATIONS.	Total No. of All Ope- rations.
1902	1,793	<ul> <li>311</li> <li>44, Acute, with Perforation or Gangrenous</li> <li>41, 1 died, Acute, without Perforation</li> <li>18, 3 died, Acute, with General Peritonitis</li> <li>94, Chronic and Recurrent</li> <li>93, 2 died, Implicating Adnexa</li> <li>18, Appendicitis and Cholecystitis</li> <li>2, " Movable Kidney</li> </ul>	311 (6 died)	1,567
1903	1,858	348         81, 5 died, Acute, with Perforation or Gangrenous         49, 2 died, Acute, without Perforation	348 (16 died)	1,572

### AUGUSTANA HOSPITAL - Continued.

# THE MORTALITY FROM APPENDICITIS ?

# AUGUSTANA HOSPITAL - Continued.

		· · · · · · · · · · · · · · · · · · ·		
YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	OPERATIONS.	Total No. of All Ope- rations.
1904	1,739	358 54, 1 died, Acute, with Perfor- ation or Gangrenous 77, Acute, without Perforation 8, 3 died, Acute, with General Peritonitis 108, Chronic and Recurrent 5, Appendicitis, complicated by Inguinal Hernia 71, 1 died, Implicating Adnexa- Appendicitis 30, 3 died, Appendicitis and Cho- lecystitis 2, Appendicitis and Movable Kidney 8 died.	358 (8 died)	1,551
1905	2,205	302 74, 3 died, Acute, with Perfor- ation or Gangrenous 16, 4 died, Acute, with General Peritonitis 66, 3 died, Acute 166, 3 died, Chronic and Recurrent 10, Complicated with Inguinal Hernia 25, Involving Adnexa 20, Appendicitis and Cholecystitis 3, 1 died, Appendicitis, with Movable Kidney 2, Appendicitis-Tuberculosis 5, 1 died, Corcinoma of Appendix 15, Appendicitis Chronic, with Ul- ceration of Stomach. 15 died.	302	1,802

6

.

# AUGUSTANA HOSPITAL - Continued.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	OPERATIONS.	Total No. of All Ope- ations.
1906	2,353	474 168, 2 died, involving Adnexa 59, 5 died, Acute with Abscess 2, Acute Perforated 60, 1 died, Acute 158, Chronic 4, 1 died, Acute Gangrenous 15, 11 died, Acute with Diffuse Peritonitis 4, Appendicitis, complicated with Gastric Ulcer 2, Appendicitis, complicated with Intestinal Obstruction 2, Appendicitis-Tubercular 20 died.	474 (20 died)	1,902
1900 and after	13,043	2,175 (79 died)	2,173 (78 died)	11,208
Before 1900	2,596	156 ( 5 died)	156 ( 5 died)	2,510
	15,639	2,331 (84 died)	2,329 (83 died)	13,613

#### REPORTS OF

# ST. MARY'S HOSPITAL,

ROCHESTER, MINN.

Contraction of		1				
YEAR.	TOTAL NO. OF PATIENTS.	Out- Patients.	NO. CASES APPENDICITIS.	Died.	Operations.	Total No. of All Ope- rations.
1895	661 257 Medical Patients, 6 died		11 6 Suppurative 5 Chronic		$6\\5$	752 (111 Ab- dominal)
1896	870 210 Medical Patients, 2 died		Medical Report: 2 Acute Surgical Report: 21 15 Suppurative 6 Chronic Relapsing	1	$15 \\ 5$	881 (196 Ab- dominal)
1897	913 210 Medical Patients, 3 died		Medical Report: 4 Acute Surgical Report: 42 (1 died) 14 Suppurative 28 Subacute and Chronic		$\frac{14}{28}$	966 (251 Ab- dominal)
1898	978 123 Medical Patients, 10 died.		Medical Report: 2 Acute Surgical Report: 47 (1 died) 26 Acute 21 Chronic	1	$\frac{26}{21}$	1,130 (322 Ab- dominal)
1899	1,085 170 Medical Patients, 5 died 1,236 total pa- tients op- erated		Medical Report: 2 Acute 1 Chronic Surgical Report: 94 (2 died) 42 Acute 52 Chronic and Recurrent	2	$42 \\ 52$	1,619 (470 Ab- dominal)
1900	1,166 47 Medical Patients, 6 died 1,413 total pa- tients op- erated		Medical Report: 1 Acute Surgical Report: 180 (4 died) 73 Acute and Suppurative 107 Chronic and Recurrent	4	73 107	1,821 (612 Ab- dominal)

#### ST. MARY'S HOSPITAL - Continued.

YEAR.	TOTAL NO. OF PATIENTS.	Out- Patients.	No. Cases Appendicitis.	Died.	Operations.	Total No. of All Ope- rations.
1901	1,422 28 Medical Patients, 7 died 1,767 total Pa- tients op- erated		Medical Report : 1 Acute (0 died) Surgical Report : 300. 125 Acute and Suppurative 175 Chronic	4	125 172	1,974 (841 Ab- dominal)
1902	1,543 20 Medical Patients, 6 died 2,019 total Pa- tients op- erated		Medical Report : 1 Acute Surgical Report : 342. 143 Acute and Suppurative 2 Acute and General Pe- ritonitis 197 Chronic	1 3	143 197	2,420 (1074 Ab- dominal)
1903	1,777 20 Medical Patients, 9 died 2,300 total Pa- tients op- erated		Medical Report: 3. 3 with General Perito- nitis Surgical Report: 403(11 died) 151 Acute and Suppurative 252 Chronic	3 7 1	$151 \\ 252$	2,640 (1302 Ab- dominal)
1904	2,093 14 Medical Patients, 4 died 2,501 total Pa- tients op- erated	408	526 131 Acute and Suppurative 8 with General and Sep- tic Peritonitis 387 Chronic	2 3	131 8 387	3,131 (1788 Ab- dominal)
1905	2,727 20 Medical Patients, 10 died. 3,160 total Pa- tients op- erated	433	Medical Report: 2 (0 died) Surgical Report: 754(10 died) 276 Acute, with Suppur- ation 11 Acute, with General Septic Peritonitis. 467 Chronic	2 6		3,883 (2157 Ab- dominal)

# THE MORTALITY FROM APPENDICITIS ?

# ST. MARY'S HOSPITAL - Continued.

YEAR.	TOTAL NO. PATIENTS.	Out- Patients.	NO. CASES APPENDICITIS.	Died.	Operations.	Total No. of All Ope- rations.
1906	3,299 13 Medical Patients, 2 died 3,915 total Pa- tients op- erated 3,748 6 Medical Patients, not oper- ated, 6 died 4,811 total Pa- tients op- erated	1063	Medical Report : 2 (0 died) Surgical Report : 924 (8 died) 371 Acute and Suppurative 10 Acute, with Diffuse Peritonitis 543 Chronic Medical Report : 4. Surgical Report : 1,141(7 died) 433 Acute and Suppurative 6 Acute, with Diffuse Peritonitis 702 Chronic	3 1 1	371 10 543 433 6 702	4,770 (2750 Ab- dominal) 5,523 (3215 Ab- dominal)
1900 and after. Be- fore [1900	21,886 4,658		4,784 (49 died) 226 ( 5 died)		65(44died) 15( 5died)	
	26,544		5,010 (54 died) Including 25 from Medical Report with 5 deaths.	49	80(49died)	31,510

#### REPORTS OF

# ST. JOSEPH'S HOSPITAL,

#### PATERSON, N. J.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	OPERATIONS.	Total No. of All Ope- rations.
1891         1892         1893         1895         1896         1897         1898         1898         1899         1900         1901         1904         1905         1906	$\begin{array}{r} 806\\823\\846\\1,143\\1,305\\1,500\\1,559\\1,474\\1,980\\1,685\\1,357\\1,466\\1,410\\1,486\end{array}$	$\begin{array}{c} 2. \\ 5. \\ 17. \\ 13. \\ 12. \\ 25. \\ 33. \\ 42. \\ 37. \\ 59. \\ 51. \\ 29. \end{array}$	$     \begin{array}{c}       0 \\       0 \\       0 \\       5 \\       0 \\       2 \\       4 \\       10 \\       10 \\       8 \\       7 \\       7 \\       3     \end{array} $	1 (1 died) 0 2 (0 died) 9 (5 died) 10 (0 died) 7 (2 died) 24 (4 died) 21 (5 died) 37 (7 died) 34 (8 died) 46 (5 died) 28 (7 died) 23 (3 died)	$\begin{array}{r} 80\\ 124\\ 108\\ 274\\ 335\\ 289\\ 434\\ 411\\ 469\\ 457\\ 332\\ 445\\ 414\\ 287\end{array}$
1900 and after. Before 1900.	9,456	243 108 351	43 21 64	209 (35 died) 73 (17 died) 282 (52 died)	2,404 2,055 4,459

#### REPORTS OF

### MARGARET PILLSBURY GENERAL HOSPITAL,

#### CONCORD, N. H.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	DIED.	Operations.	Total No. of All Ope- rations.
1894	170	1	0	0	81
1895	223	2	1	2	36
1896	216	1	0	0	48
1897	203	2	0	2	56
1898	251	3	0	3	53
1899	213	6	0	4	73
1900	303	6	0	2	79
1901	239	7	0	5	78
1902	352	9	0	3	76
1904		13	0	9	87
1905		17	0	7	100
1906	440	29	0	16	116
1900 and after.	1,172	81	0	42	527
Before 1900.	1,290	15	1	11	347
	2,462	96	1	53	874

#### REPORTS OF

## RHODE ISLAND HOSPITAL,

#### PROVIDENCE, R. I.

YEAR,	Total No. of Patients.	No. of Cases.	Died.	OPERATIONS.	Total No. of All Ope- rations.
1891	1,061	Surgical Report: 3 Perityphilitis	0	-	243
1892	1,822	Medical Report : 2 "Appendicitis" Surgical Report : 4 3 Perityphilitis 1 " followed by Septic Peritonitis.		1	324
1893	1,476	Medical Report: 2 Surgical Report: 5 3 "Appendicitis" 1 with Abscess of Liver 1 with Erysipelas		2	363
1894	1,730	Surgical Report: 14 12 "Appendicitis" 1 with Abscess of Liver. 1 Recurrent	2	16 (2 died.)	407
1895	2,046	Medical Report: 5 Surgical Report: 28 23 "Appendicitis" 4 Recurrent 1 with Suppuration	1	19 (2 died.)	743
1896	2,283	Medical Report : 4 Surgical Report : 25	6	14	685

# THE MORTALITY FROM APPENDICITIS ? 89

YEAR.	Total No. of Patients.	NO. OF CASES.	Died.	OPERATIONS.	Total No. of All Ope- rations.
1897	2,421	Medical Report: 6 Surgical Report: 29 27 "Appendicitis" 2 " with Gen- eral Peritonitis (2 died).		22 (5 died) 4 General Peritonitis (4 died). 8 Abscess (1 died). 10 Removed Appen- dix.	760
1898	2,516	Medical Report: 5 Surgical Report: 51 4 Catarrhal 33 Suppurative (3 died) 3 Chronic 1 with Fecal Fistula 10 with General Peritoni- tis (8 died)	11	41 . (11 died) 19 Abscess incised. 12 with General Per- itonitis (10 died). 10 removal of Appen- dix (1 died).	792
1899	2,750	Medical Report: 1 Surgical Report: 49 17 Catarrhal 1 Chronic 6 Recurrent 1 " with Abscess. 18 " with Abscess, (1 died). 6 with General Peritoni- tis (6 died).		<ul> <li>35 (7 died.)</li> <li>13 Appendicectomy.</li> <li>15 Abscess incised (3 died).</li> <li>4 with General Peritonitis, Laparotomy (4 died).</li> <li>1 "Appendicitis," Explorative Laparotomy.</li> </ul>	846
1900	3,185	Medical Report: 3 Surgical Report: 65 15 Catarrhal 36 with Abscess (4 died). 7 Acute Perforative (6 died). 7 Chronic	10	61 (10 died.) 14 Appendicectomy. 4 with Abscess, Ap- pendicectomy (1 died). 29 Abscess incised (1 died). 11 Perforative (8 died). 3 Chronic.	900

#### HAS SURGICAL TREATMENT LESSENED

.

## RHODE ISLAND HOSPITAL - Continued.

YEAR.	Total No. of Patients.	NO. OF CASES.	Died.	OPERATIONS.	Total No. of All Ope- rations.
1901	3,465	Medical Report: 3 Surgical Report: 94 15 Catarrhal 20 Chronic (1 died) 4 with Fecal Fistula (1 died) 13 with General Peritonitis (9 died) 35 Suppurative (5 died) 6 Ulcerative (2 died) 1 with double Salpingo- oophoritis		<ul> <li>77 (12 died.)</li> <li>19 with Abscess, drained (4 died).</li> <li>50 Appendicect o m y (7 died).</li> <li>6 with General Per- itonitis (1 died).</li> <li>1 with Fecal Fistula.</li> <li>1 with Salpingitis.</li> </ul>	999
1902	3,282	Medical Report: 1 Surgical Report: 105 25 Catarrhal (1 died) 10 Chronic 2 with Fecal Fistula 68 Suppurative (20 died).	21	108 (22 died.) 27 Abscess drained without Appendi- cectomy (3 died). 65 with Abscess drained and ap- pendicectomy (11 died). 8 with General Per- itonitis (5 died). 8 with Second Ex- ploration (3 died)	1,182
1904	3,973	Surgical Report: 143 29 Acute Catarrhal (1 died) 29 Chronic	16	134 (19 died.) 23 Abscess incised and drained (7 died). 110 Appendicectomy (12 died). 1 Appendicectomy with Salpingo- oophorotomy.	1,726

90

YEAR.	Total No. of Patients.	NO. OF CASES.	Died.	OPERATIONS.	Total No. of All Ope- rations.
1905	4,261	Surgical Report: 177 1 with Fecal Fistula 2 with Inguinal Hernia 12 Acute 25 Acute Catarrhal 1 Acute with Pelvic Ab- scess 1 Acute with Perinephritic Abscess 37 Chronic 1 Chronic with AxillaryOde- nitis 2 Chronic with Fecal Fis- tula (1 died) 1 with General Peritonitis, Chronic (1 died) 4 Gangrenous (1 died) 4 Gangrenous with General Peritonitis (4 died) 3 Sub-acute 3 Suppurative with Gen- eral Peritonitis 51 Ulcerative (9 died) 4 Ulcerative with General Peritonitis 1 Ulcerative with Multiple Abscess 1 Sinus Recurrent		131 (25 died.) 110 Appendicectomy (22 died). 21 Abscess incised and drainage (3 died).	2,475
1906	4,487	Medical Report: 2 (2 died) Surgical Report: 169 9 Acute (1 died) 5 Acute with Abscess(1 died) 1 Acute with Abscess and Fecal Fistula 14 Acute Catarrhal 1 Acute Catarrhal with Pel- vic Cellulitis		168 (19 died).) 24 Abscess incised and drainage (6 died). 61 Appendicectomy (2 died). 77 Appendicectomy with drainage (11 died).	2,130

#### HAS SURGICAL TREATMENT LESSENED

.

YEAR.	Total No. of Patlents.	No. of Cases.	Died.	OPERATIONS.	Total No. of All Ope- rations.
1906	4,487	<ul> <li>6 Acute Gangrenous</li> <li>1 Acute with General Peritonitis</li></ul>		<ol> <li>Appendicectomy with cholecysto- tomy.</li> <li>Appendicectomy with double sal- pingo-oophorec- tomy.</li> <li>Appendicectomy with drainage mesenteric cyst.</li> <li>Appendicectomy with oophorec- tomy.</li> <li>Appendicectomy with removal of mesenteric lymph glands.</li> </ol>	2,130

## THE MORTALITY FROM APPENDICITIS? 93

YEAR.	Total No. of Patients.	NO. OF CASES.	Died.	OPERATIONS.	Total No. of All Ope- rations.
1907	4,771	Medical Report: 1 Surgical Report: 205 5 Acute (0 died) 37 Acute with Abscess (3 died) 37 Acute Catarrhal (0 died). 17 Gangrenous 1 Acute Gangrenous with	14	194 (15 died.) 27 Appendicitis, in- cision and drain- age (5 died). 96 Appendicectomy	2,197
		Abscess 4 Acute with General Peri- tonitis (3 died) 20 Acute Perforative (4 died) 4 Acute Perforative with Abscess		(1 died). 2 Appendicectomy with curettage. 68 Appendicectomy with drainage (9 died).	
		<ul> <li>4 Acute Perforative with General Peritonitis (2 died)</li> <li>26 Acute Ulcerative</li> <li>6 Acute Ulcerative with Ab- scess (1 died)</li> </ul>		1 Appendicectomy with DoubleSal- pingo-oophorec- tomy.	
		<ul> <li>30 Chronic (1 died)</li> <li>5 Chronic Catarrhal</li> <li>5 Chronic Catarrhal with Chronic Salpingitis</li> <li>2 Chronic with Cystic Ovary</li> <li>1 Chronic with Retroversion of Uterus</li> </ul>			
		<ol> <li>Chronic with Tubercular Peritonitis</li> <li>1 Gangrenous with Perfora- tion and General Perito- nitus and Subchronic</li> </ol>			
1900 and	29,424	Abscess 2 Subacute 1 Empyema of Appendix 965	113	873 (122 died).	11 600
after. Before 1900.	17,605		30		11,609 5,167
	45,029	1,198	143	1,023 (149 died).	16,776

## REPORTS OF

# ST. MICHAEL'S HOSPITAL,

#### NEWARK, N. J.

#### REPORTS OF

## ST. LUKE'S HOME AND HOSPITAL,

#### UTICA, N. Y.

YEAR.	Total No. of Patients,	CASES OF APPENDICITIS.	Died.	Operations.	Total No. of all Ope- rations.
1895	353	3	1	3	163
1896	443	4	0	3	214
1897	377	5	0	3	189
1898	387	5	0	4	205
1899	457	10	0	10	183
1900	521	13	0	11	245
1901	513	9	0	8	245
1902	544	10	1	10	258
1903	604	22	1	22	297
1904	594	14	1	13	264
1905	579	22	1	20	297
1906	814	30	4	31	415
1907	1,108	66	7	63	624
1900 and after.	5,277	186	15	178	2,645
Before 1900.	2,417	27	1	23	954
	7,694	213	16	201	3,599

#### REPORTS OF

### ORANGE MEMORIAL HOSPITAL,

#### ORANGE, N. J.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Total No. of All Ope- tions.
1893 1894 1895 1896 1897 1898 1899 1900 1902 1905 1906	$795\\800\\784\\785\\751\\824\\729\\798\\1,210\\1,063\\1,121$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$135 \\ 136 \\ 134 \\ 138 \\ 138 \\ 146 \\ 123 \\ 129 \\ 172 \\ 303 \\ 285$
1900 and after. Before 1900.	4,192 5,468	156       20       159 (21 died)         82       20       46 (13 died)	889 950
	9,660	238	1,839

# THE MORTALITY FROM APPENDICITIS ?

4	h	274 274 273 273 273 273 273 273 273 273 273 273	
OF CASES OF TO TOTAL NUM PATIENTS,	*'0681	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	.0001	10: ee: 11111111111111111111111111111111	
	'906I		8
N OF S TO	Fatire Period.	4895644956555555555555555555555555555555	
CUTIS CUTIS	Before 1900,	232 232 232 232 232 232 232 232 232 232	8
PROPORTION PPENDICITIS BER OF	after.	10 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	19
PRC	bns 0001	One	3
÷ ż	Entire Period.	55555555555555555555555555555555555555	7.9
PERCENT- AGE	Before Before	6.3 8.45 1.51 1	10.6
PEI L	after.	84+ 00808-10- 00000 + 00000000 + 0000000000000000	
· .	LETOT bas 0001	81424993173757832842882989911 81999991133557832828283899911	1192
OTAL NO. DEATHS.	Before 1900.	41608 2 40 12 12 12 12 12 12 12 12 12 12 12 12 12	373 1
TOTAL DEAT	1900 and after.	$\begin{smallmatrix} 56\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 55\\ 53\\ 55\\ 53\\ 55\\ 53\\ 55\\ 53\\ 55\\ 53\\ 55\\ 53\\ 55\\ 53\\ 55\\ 53\\ 55\\ 53\\ 55\\ 53\\ 55\\ 53\\ 55\\ 55$	819
ASES TIS.	.IstoT	$\begin{smallmatrix} 1,319\\1,1946\\77\\1,1956\\75\\75\\8322\\1,248\\1,248\\1,248\\1,248\\75\\75\\8322\\136\\2,14\\136\\2,136\\2,136\\2,128\\2,256\\2,26\\2,2719\\2,2719\\2,2,7$	15,003
DTAL NO. CAS APPENDICITIS	Before 1900.	$\begin{smallmatrix} 203 \\ 236 \\ 728 \\ 728 \\ 728 \\ 728 \\ 73$	3,492 15
TOTAL NO. CASES APPENDICITIS.	1900 and after.	$\begin{array}{c} 1,116\\940\\958\\406\\58\\51\\54\\15\\54\\165\\165\\165\\117\\117\\117\\117\\121\\122\\166\\117\\121\\2216\\86\\2216\\86\\2216\\86\\2216\\86\\2216\\86\\22,161\\128\\22,161\\22,$	11,511
BER .	Total.	$\begin{array}{c} 18,495\\ 19,7025\\ 19,7025\\ 19,7025\\ 19,7025\\ 10,705\\ 23,481\\ 23,481\\ 23,481\\ 23,481\\ 22,487\\ 10,199\\ 10,199\\ 10,199\\ 11,736\\ 11,819\\ 11,736\\ 11,736\\ 11,736\\ 11,736\\ 11,736\\ 11,736\\ 11,736\\ 11,736\\ 11,736\\ 11,736\\ 12,201\\ 12,201\\ 12,$	464,095
OTAL NUMBER PATIENTS.	Before 1900.	$\begin{array}{c} 7,947\\ 2,566\\ 6,731\\ 2,224\\ 1,896\\ 1,045\\ 2,985\\ 1,045\\ 2,985\\ 2,985\\ 1,045\\ 2,3985\\ 1,045\\ 1,026\\ 1$	239,256
Tor	1900 and after.	$\begin{array}{c} 10,548\\ 6,459\\ 6,459\\ 6,459\\ 6,2809\\ 6,2809\\ 10,069\\ 12,436\\ 6,2703\\ 26,703\\ 26,703\\ 26,703\\ 26,703\\ 1,748\\ 2,312\\ 8,330\\ 10,239\\ 3,168\\ 3,168\\ 3,168\\ 3,168\\ 1,733\\ 1,738\\ 1,738\\ 1,738\\ 1,738\\ 1,738\\ 26,640\\ 26,640\\ \end{array}$	224,839
NAME OF HOSPITAL.		<ul> <li>Maine General, Portland, Maine.</li> <li>Central Maine General, Lewiston, Maine.</li> <li>Mercy, Chicago, III.</li> <li>House of Mercy, Pittsfield, Mass.</li> <li>House of Mercy, Pittsfield, Mass.</li> <li>Lowell Hospital Association, Lowell, Mass.</li> <li>Lowell Hospital Association, Lowell, Mass.</li> <li>Lowell Hospital, Boston, Mass.</li> <li>Stoney Hospital, Boston, Mass.</li> <li>Johns Hopkins, Baltimore, Md</li> <li>Marsachusetts Homorylaul, Bridgeport, Conn</li> <li>St. Luke's Hospital, Bridgeport, Conn</li> <li>St. Luke's Hospital, New Orleans, La</li> <li>Bridgeport Hospital, Ohio, N. Y</li> <li>Bridgeport Hospital, Ohio, N. Y</li> <li>Bridgeport Hospital, Buffalo, N. Y</li> <li>Bridgeport Hospital, Brocklyn, N. Y</li> <li>Brocklyn Hospital, Brocklyn, N. Y</li> <li>Brockton Hospital, Brocklyn, N. Y</li> <td>Total and averages</td></ul>	Total and averages
7			

TABLE V.

97

\* Average.

.

#### REPORTS OF

## MAINE GENERAL HOSPITAL,

#### PORTLAND, MAINE.

	-		
YEAR.	Total No. of Patients.	No. of Cases of Appendicitis AND NATURE OF OPERATIONS.	Total No. of All Ope- rations.
1891	617	1	
1892	647	5 1 5	577
1893	873	4 0 4	834
1894	921	11	828
1895	887	24	734
1896	953	22 1 22	758
1897	971	39 2 39	768
1898	1,075	43 5 43	848
1899	1,003	54 1 54	854
1900	1,050	36 Appendicectomy         2          2           7 Abscess drained         0         0	918
1901	1,305	69 Appendicectomy 2	935
		and drained 3	
1902	1,267	87 Appendicectomy122 Appendiceal Abscess opened and drained2	963
1903	1,040	134 Appendicectomy1122 Appendiceal Abscess opened and drained4	1,307

### THE MORTALITY FROM APPENDICITIS ?

## MAINE GENERAL HOSPITAL - Continued.

YEAR.	Total No. of Patients.	No. of Cases of Appendicitis and nature of Operations.	Died.	Operations.	Total No. of All Ope- rations.
1904	1,469	129 Appendicectomy23 Appendiceal Abscess openedand drained	2 6		1,103
1905	1,311	137 Appendicectomy 35 Appendiceal Abscess opened and drained			1,049
1906	1,447	154 Appendicectomy 36 Appendiceal Abscess opened and drained and Appen- dicectomy	0 4		1,086
1907	1,559	161 Appendicectomy 45 Appendicectomy, Abscess opened and drained	2 8		1,139
1900 and after.	10,548	1,116	56	· · · · · ·	8,500
Before 1900.	7,947	203	14		6,201
	18,495	1,819	70		14,701

.

### REPORTS OF

# CENTRAL MAINE GENERAL HOSPITAL,

### LEWISTON, MAINE.

YEAR.	Total No. of Patients.		CASES OF APPENDICITIS.			Died.	Operations.	Total No. of All Ope- rations.
1892 1893	$\frac{135}{228}$	0	cases 4	Appendici	itis		1.	
1894	363	1	case	"		0		
1895	292	1 200 1	cases	66.		0		
		3		Recurren	nt.)			
1896	339	1			tis	0		
1897	302		cases	"		0		
1898	420	12	"	"		1		
1899	487	34	"	"		1		
1900	563	35	66	""		3		
1901	751	70	"	"		4		
1902	900	88	**	"		1		
1903	880	159	"	"		8		
1904	850	165	"	**		9	148	562
1906	1,238	212	"	"		7	230	752
1907	1,277	211	**	"		5	220	615
1900 and after.	6,459	940	"	"		37		
Before 1900.	2,566	56	"	"		2		
	9,025	996	"	"		39		

# REPORTS OF MERCY HOSPITAL,

### CHICAGO, ILL.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	OPERATIONS.	Total No. of All Ope- rations.
1895	1,470	27 Acute 3 Chronic			
1896	1,786	44 Acute 15 Chronic	$5\\1$	Not given.	
1897	1,610	49 Acute 23 Chronic	7	41	457
1898	1,865	40 Acute 35 Chronic	4 3	23 35	463
1900	2,275	64 Acute	7	59 7	655
1901	2,419	52 Acute 96 Recurrent	9 7	43 87	756
1903	2,557	67 Acute	6 3	157	813
1904	2,978	107 Chronic	$     \begin{array}{c}       1 \\       1 \\       2 \\       5 \\       2     \end{array} $	106 (Chronic.) 3 Acute, with Gen- eral Peritonitis. 71 (Catarrhal.) 58 (Suppurative.) 14 (Gangrenous.)	1,570

# 102 HAS SURGICAL TREATMENT LESSENED

.

-									
YEAR.	Total No. of Patients.	Cases of Appendicitis.	Died.	OPERATIONS.	Total No. of All Ope- rations.				
1906	2,810	64 Acute Catarrhal 45 Acute Suppurative 23 Gangrenous 17 General Peritonitis 121 Chronic	0 0 3 7 0	64 (Acute Catarr- hal.) 45 (Acute Suppur- ative.) 20 (Acute Gan- grenous.) 15 (with General Peritonitis.) 121 (Chronic.)	1,649				
1900 and after.	13,039	958	53	869	5,213				
Before 1900.	6,731	236	20	117	920				
	19,770	1,194	73	986	6,133				

### MERCY HOSPITAL-Continued.

#### REPORTS OF

# HOME OF MERCY,

### PITTSFIELD, MASS.

YEAR.	Total No. of Patients.	No. Cases of Appendicitis.	Died.	Operations.	Total No. of All Ope- rations.
1893 1894	$\frac{245}{265}$	2 6	0 1		•••••
1895	203	<u> </u>	1		• • • • • • •
1896	321	9	0		
1897	327	13	3		
1898	357	21	3		
1899	416	17	0		
1900	433	23	1		
1901	$508 \\ 581$	34 31	$\frac{2}{6}$	• • • • • •	•••••
1902 1903	743	$\begin{array}{c} 31 \dots \dots \\ 42 \dots \dots \end{array}$	9		••• ••
1904	802	45	2		•••••
1905	825	71	$\frac{2}{3}$		
1906	1,039	76	7		
1907	1,249	84	4		
1900 and after.	6,280	406	34		
Before 1900.	2,224	72	8		
	8,504	478	42		

# REPORTS OF

# LOWELL HOSPITAL ASSOCIATION,

LOWELL, MASS.

YEAR.	TOTAL NUMBER OF PATIENTS.			CASES OF AI	PPENDICITIS.	DIED.
		-				
1895	316	2		Appendicit	is	 . 1
1896	316	1	"	61		
1897	320	1	"	"		 . 0
1898	426	4	"	66		 . 0
1899	518	5	**	"		 . 2
1900	653	4	"	44		1 1
1901	655	5	. 16	44		 . 0
1902	680	6	"	"		 . 1
1903	713	15	"	" "		 . 3
1906	879	23	"	""		 . 3
1907	1,072	25	"	"		 . 3
1900 and after.	4,652	58	"			 . 13
Before 1900.	1,896	13	"			 . 4
	6,548	71	"	"		 . 17

#### REPORTS OF

# MASSACHUSETTS HOMEOPATHIC HOSPITAL,

BOSTON, MASS.

YEAR.	TOTAL NUMBER OF PATIENTS.	CASES OF APPENDICITIS.	DIED
1890	683	3	0
1891	730	4	0
1892	789	3	0
1893	1,097	5	1
1894	1,181	19	4
895	1,329	33	1
.896	1,491	51	4
.897	1,566	74	8
.898	1,645	117	6
1899	1,963	132	7
	12.874	441	31

### THE MORTALITY FROM APPENDICITIS? 105

#### REPORTS OF

# MASSACHUSETTS HOMEOPATHIC HOSPITAL,

### Boston, Mass.

YEAR.	Total No. of Patients.	NO. OF CASES APPENDICITIS.	Died.
1900	2,284	187         104 Acute	9
1901	2,607	180         84 Acute	13
1902	3,074	236         141 Acute	9
1903	3,467	215         132 Acute       (2 died)         43 Intercurrent       (1 died)         3 Recurrent       (0 died)         37 Suppurative       (9 died)	12
1904	3,720	217         152 Acute	5
1905	3,917	260 190 Acute (3 died) 70 Suppurative (9 died)	12
	19,069	1,295	60

1

### REPORTS OF

# CARNEY HOSPITAL,

### BOSTON, MASS

			-		
YEAR.	Total No. of Patients.	Cases of Appendicities.	Died.	Operations.	Total No. of All Op- erations.
$     \begin{array}{r}       1894 \dots \\       1895 \dots \\       1896 \dots \\       1897 \dots \\       1898 \dots \\       1900 \dots \\       1901 \dots \\       1902 \dots \\       1903 \dots \\       1906 \dots \\     \end{array} $	$\begin{array}{c} 2,201\\ 2,210\\ 2,225\\ 2,203\\ 2,206\\ 2,449\\ 2,461\\ 2,347\\ 2,535\\ 2,674\end{array}$	1 (Abscess Appendix)         4         28         22         28         29         57         55         20         158         73         Acute Cases, 4 died         (Moribund on entrance.)         16         Subacute, 2 died         69         Chronic, 0 died	$\begin{array}{c} 0 \\ 0 \\ 2 \\ 2 \\ 0 \\ 1 \\ 3 \\ 3 \\ 1 \\ 8 \end{array}$	Not stated. 13 18 52 34 20 158	Not stated. 357 491 492 400 241 613
1900 and after. Before 1900.	12,436 11,045	447 83	16 4	332	2,237
	23,481	530	20		

# EASTERN MAINE GENERAL HOSPITAL,

# BANGOR, MAINE.

YEAR.	Total No. of Patients.	Cases of Appendicities.	DIED.	OPERATIONS.	Total No. of All Ope- rations.
1893	150	1 Chronic (1 died)	1	0	
1894	132	1 Chronic (1 died)	1	1	
1895	216	8	0	1	
1896	265	5 (2 Chronic)	1	2	
1896–7	357	8	0	8	
1897-8	371	6 (3 Chronic)	0	6	
1898–9	394	26 14 Acute 12 Chronic	0	26	287
1899-1900.	518	49	0	44	
1900–1	799	96 29 Acute (5 died) 67 Chronic (1 died)	6	101 (6 died.)	556
1901–2	849	113 52 Acute (6 died) 61 Chronic (0 died)	6	114 (4 died.)	601
1902–3	899	142 67 Acute (7 died) 75 Chronic (3 died)	10	131 (9 died.)	638
1903-4	797	199 94 Acute (9 died) 105 Chronic (0 died)	9	205 (8 died.)	718

# EASTERN MAINE GENERAL HOSPITAL - Continued.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	DIED.	OPERATIONS.	Total No. of All Ope- rations.
1904–5	1,001	212 85 Acute (8 died) 127 Chronic	8	239 (8 died.)	853
1905–6	1,075	284 85 Acute (7 died) 199 Chronic (0 died)	7	300 (6 died.)	936
1906–7	1,065	338 86 Acute (4 died) 252 Chronic (3 died)	7	363 (10 died.)	1,039
1900 and after.	6,485	1,384	53	1,442 (51 died.)	5,341
Before 1900.	2,413	99	2	87 (? died.)	
	8,898	1,483	55	1,529	

#### REPORTS OF JOHNS HOPKINS HOSPITAL, BALTIMORE, MD.

Year.	TOTAL NUMBER OF PATIENTS.	CASES OF APPENDICITIS.	DIED.
1891	1,722	7	1
1892	2,111	6	1
.893	2,622	10	2
894	3,018	16	4
895	3,388	16	1
896	3,602	23	3
897	3,633	54	5
898	3,815	74	4
899	4,074	84	9
900	4,702	114	9
901	4,363	117	8
902	4,164	127	6
903	4,166	120	8
904	4,531	161	8
905	4,224	140	2
906	4,550	179	7

108

# UNIVERSITY OF PENNSYLVANIA HOSPITAL,

#### PHILADELPHIA, PA.

YEAR.	TOTAL NUMBER OF PATIENTS.	CASES OF APPENDICITIS.	DIED.
1891	1,217	1 Typhilitis	
1892	1,348	1 "	1
1893	1,331	3	
1894	1,266	11	2
1895	1,360	16	1
1897	1,608	18	
1898	1,985	13	
1899	1,894	23	
-		<ul> <li>12 "Appendicitis"</li> <li>1 Acute Catarrhal</li> <li>3 " with Abscess</li> <li>4 Chronic</li> <li>2 Perforative with General Peritonitis</li> <li>1 Suppurative</li> </ul>	0
1900	2,280	41 9 Recurrent 1 Chronic 6 Catarrhal 10 Acute 15 Appendicitis	0
1901	2,627	52 1 Gangrenous 5 with Peritonitis	$\frac{1}{4}$
		38 Appendicitis      2 Abscess of Appendix	
		4 Acute 2 Chronic	1

# UNIVERSITY OF PENNSYLVANIA HOSPITAL - Continued.

YEAR.	TOTAL NUMBER OF PATIENTS.	CASES OF APPENDICITIS.	Died.
1902	3,066	36 4 Acute Catarrhal 7 Abscess of Appendix 24 Appendicitis 1 Gangrenous	1
1903	3,710	70 4 Abscess of Appendix 55 Acute 1 Acute Catarrhal 3 Acute Suppurative 2 Chronic	3
1904	3,629	5 Gangrenous	1 3
1905	3,565	28 Acute	1
1906	3,727	12 Gangrenous	4 8 8
1907	4,089	105 83 Acute 19 Chronic 2 Gangrenous 1 Perforative with General Perito- nitis.	3
1900 and after.	26,703	518	39
Before 1900.	12,009	86	4
	38,712	604	43

# PORTSMOUTH COTTAGE HOSPITAL,

### PORTSMOUTH, N. H.

YEAR.	TOTAL NO. OF PATIENTS.	CASES OF APPENDICITIS.	DIED.
1895	$\begin{array}{c} 150\\ 165 \end{array}$	0	0
1897	190     201	$\begin{array}{c} \hline 7 \\ 2 \end{array}$	0
1899 1900	$213 \\ 221$	0 1	0 0
.901 .902	$     263 \\     262 $	$\begin{array}{c} 6 \dots $	$\begin{array}{c} 0 \\ 2 \end{array}$
903	$     243 \\     243 \\     276   $	4 10	1 1
.905 .906	$\frac{276}{240}$	$\begin{array}{c} 10 \dots \\ 12 \dots \\ \end{array}$	$\begin{array}{c} 0 \\ 1 \end{array}$
900 and after.	1,748	54	5
Before 1900.	739	10	0
	2,487	64	5

1

### REPORTS OF

# BRIDGEPORT HOSPITAL,

### BRIDGEPORT, CONN.

YEAR.	TOTAL NO. OF PATIENTS.	CASES OF APPENDICITIS.	Died.	Operations.
$\begin{array}{c} 1892 \dots \\ 1893 \dots \\ 1893 \dots \\ 1894 \dots \\ 1896 \dots \\ 1897 \dots \\ 1897 \dots \\ 1898 \dots \\ 1899 \dots \\ 1900 \dots \\ 1900 \dots \\ 1901 \dots \\ 1901 \dots \\ 1902 \dots \\ 1903 \dots \\ 1904 \dots \\ 1905 \dots \end{array}$	$\begin{array}{r} 481\\ 473\\ 483\\ 619\\ 669\\ 819\\ 779\\ 779\\ 779\\ 909\\ 995\\ 1,014\\ 1,049\\ 1,130\end{array}$	$\begin{array}{c} 2 \\ 4 \\ 5 \\ 5 \\ 11 \\ 14 \\ 25 \\ 20 \\ 19 \\ 16 \\ 10 \\ 27 \\ 42 \\ 46 \\ \end{array}$	$\begin{array}{c} 1 \\ 1 \\ 1 \\ 2 \\ 5 \\ 5 \\ 2 \\ 1 \\ 5 \\ 5 \\ 7 \\ 7 \\ 4 \end{array}$	$\begin{array}{c} 0\\ 2\\ 1\\ 4\\ 14\\ 17\\ 18\\ 6\\ 10\\ 10\\ 27\\ 44\\ 39 \end{array}$
1900 and after. Before 1900.	5,876 4,323	163 81	29 17	136 56
	10,199	244	46	192

# ST. LUKE'S HOSPITAL,

# CHICAGO, ILL.

YEAR.	TOTAL NO. OF PATIENTS.	CASES OF APPENDICITIS.	Died.
1892	1,504	5	0
1894	1,471	27	4
1896	1,593	21	0
1897	1,563	32	2
1898	1,761	25	3
1899	1,967	22	3
1902	2,312	66	7
1900 and after.	2,312	66	7
Before 1900.	9,859	182	12
	12,171	198	19

8

1

### REPORTS OF

# CHARITY HOSPITAL,

### NEW ORLEANS, LA.

YEAR.	TOTAL NO. OF PATIENTS.	CASES OF APPENDICITIS.	DIED.
1893	7,728	4	0
1894	8,480	4	1
1895	7,734	13	9
1896	7,281	12	3
1897	8,816	12	4
1898	9,812	15	3
1899	9,064		
1900	8,330	15	2
1900 and after.	8,330	15	2
Before 1900.	58,915	60	20
	67,245	75	22

# BUFFALO GENERAL HOSPITAL,

#### BUFFALO, N. Y.

YEAR.	Total No. of Patients	CASES OF APPENDICITIS.	Died.	Operations.	Total No. of All Ope- rations.
1891	1,829	2	0	0	490
1892	2,009	8	1	0	499
1893	2,087	16	2	10	616
1894	1,913	14	2	13	537
1895	2,109	85	7	30	841
1896	2,075	72	7	64	848
1897	2,087	62 17 Acute Catarrhal, 0 died 15 Chronic, 0 died 2 Gangrenous, 1 died 1 Recurrent, 0 died 27 Suppurative, 9 died		54	781
1898	2,107	69 20 Acute Catarrhal, 0 died 9 Gangrenous, 2 died 15 Recurrent, 1 died 17 Subacute, 0 died 8 Suppurative, 1 died		71	930
1899	2,271	65 24 Acute Catarrhal, 0 died 7 Gangrenous, 6 died 13 Recurrent, 0 died 4 Subacute, 0 died 17 Suppurative, 2 died	8	67	649

1

# BUFFALO GENERAL HOSPITAL - Continued.

YEAR.	Total No. of Patients.	Cases of Appendicities.	Died.	Operations.	Total No. of All Ope- rations.
1900	2,448	98 54 Acute Catarrhal, 1 died 6 Gangrenous, 4 died 15 Recurrent, 4 died 8 Subacute, 0 died 15 Suppurative, 5 died	14	90	1,100
1901	2,816	85 45 Acute Catarrhal, 1 died 8 Gangrenous, 5 died 12 Recurrent, 0 died 29 Suppurative, 1 died	7	84	1,139
1902	2,320	108 57 Acute, 0 died 11 Gangrenous, 5 died 12 Recurrent, 0 died 28 Suppurative, 4 died	9	79	1,004
1903	2,685	103 60 Acute, 1 died 16 Gangrenous, 1 died 10 Recurrent, 0 died 17 Suppurative, 3 died		101	972
1900 and after.	10,219	494	35	354	4,215
Before 1900.	18,886	338	41	319	6,191
	29,105	832	76	673	10,406

# LAKESIDE HOSPITAL,

### CLEVELAND, OHIO.

YEAR.	Total No. of Patients.	Cases of Appendicitis.	DIED.	OPERATIONS.	Total No. of All Ope- rations.
1900	1,780	54 8, 0 died, Catarrhal 26, 4 died, Circumscribed Ab- scess 3, 2 died, General Peritonitis. 17, 1 died, Chronic	7	60 (8 died.)	1,071
1901	1,909	45 18, 0 died, Catarrhal 5, 0 died, Circumscribed Ab- scess 4, 3 died, General Peritonitis. 18, 0 died, Chronic	3	35 (2 died.)	1,097
1902	2,227	82 11, 1 died, Catarrhal 32, 0 died, Circumscribed Ab- scess 7, 3 died, General Peritonitis. 32, 0 died, Chronic	4	77 (4 died.)	1,606
1903	3,168	97 10, 0 died, Acute Catarrhal 43, 6 died, Circumscribed Ab- scess 8, 5 died, General Peritonitis. 2, 0 died, Intraperitoneal Ab- scess	11	-97 (12 died.)	1,255

#### HAS SURGICAL TREATMENT LESSENED

.

# LAKESIDE HOSPITAL - Continued.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	DIED.	OPERATIONS.	Total No of All Ope- rations.
1907	2,805	124 37, 0 died, Acute Catarrhal 39, 0 died, Chronic 33, 0 died, Circumscribed Ab- scess 8, 3 died, General Peritonitis 7, 0 died, Intraperitoneal Ab- scess	3	84 (3 died.)	1,564
	11,889	402	28	353 (29 died.)	6,598

### ST. CATHERINE'S HOSPITAL,

BROOKLYN, N. Y.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	Operations.	Total No. of All Ope- rations.
1892 1893 1894 1895 1896 1897 1898	$\begin{array}{c} 2,162 \\ 2,230 \\ 2,150 \\ 2,250 \\ 2,283 \\ 2,308 \\ 2,235 \end{array}$	$\begin{array}{c} 7. \\ 16. \\ 21. \\ 50. \\ 58. \end{array}$	$     \begin{array}{c}       1 \\       1 \\       4 \\       2 \\       4 \\       7 \\       5 \\       5     \end{array} $	$\begin{array}{c} 6 \\ 7 \\ 16 \\ 21 \\ 42 \\ 58 \\ 40 \end{array}$	$308 \\ 183 \\ 333 \\ 224 \\ 362 \\ 397 \\ 283$
	15,618	301	24	190	2,090

#### REPORTS OF

### AVANT-OGDEN MEMORIAL HOSPITAL,

ELMIRA, N. Y.

					_	1000							
1895	279	1		 				1					
1896	337	1,		 				1					
1897	312	0		 				0				• •	
1898	341	9		 				0				• •	• •
1899	380						100000000000000000000000000000000000000	1				• •	• •
1900	414	9						0					
1901	423	12						$\frac{3}{4}$	1	• • • •			
1902	458	14						4 1					
1903	608 607	18						2	1817	••••			
1905 1906	658	$\frac{26}{38}$					Sec. 200	ĩ	1				
1000	000	00		 				-			1		
1900 and after.	3,168	117	••••	 	• • • •			11				• •	• •
Before 1900.	1,649	19		 				3					• •
				 				1					
	4,817	136		 				14			J		

1

#### REPORTS OF

# CITY HOSPITAL,

# QUINCY, MASS.

YEAR.	TOTAL NUMBER OF PATIENTS.	Cases of Appendicitis.	Died.
1895	197	1	0
1896	198	2	0
1897	214	3	= 0
1898	215	4	1
1899	202	5	0
1900	230	10	2
1901	268	23	2
1902	284	21	2
1903	282	25	3
1904	284	21	2
1905	323	21	2
1900 and after.	1,671	121	13
Before 1900.	1,026	15	1
E	2,697	136	14

# BROOKLYN HOSPITAL,

BROOKLYN, N. Y. GEO. R. FOWLER,

Surgeon.

YEAR.	Total No. of Patients.	Cases of Appendicitis.	Died.	Operations.	Total No. of All Ope- rations.
1893	1,132	5	1	4	475
1894	1,086	16	4	16	210
1895	1,149	24	3	21	271
1896	1,332	57	10	55	525
1897	1,455	44	3	51	725
1898	1,781	40	3	84	819
1900	2,170	65	5	74	910
1900 and after.	2,170	65	5	74	910
Before 1900.	7,935	186	24	181	3,025
	10,105	251	29	255	3,935

#### REPORTS OF

# ELLIOT CITY HOSPITAL,

# KEENE, N. H.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS. DIED.
1894	70	7 = 0
1895	73	8 1
1898	73	8 2
1899	179	4 0
1900	142	5 0
1901	177	9 1
1902	164	5 0
1903	193	5 0
1904	234	8 1
1900 and	910	32 2
Before 1900	394	22 3

1 1

# THE MERCY HOSPITAL,

# Springfield, Mass.

/ YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	Operations.	Total No. of All Ope- rations.
1897	408	7	0	7	142
1899	542	28	1	28	278
1900	756	42	6	42	457
1901	1,109	61	2	60	380
1902	1,152	66	8	66	502
1904	1,413	105	11	105	798
1906	1,744	168	7	168	563
1900 and after,	6,274	442	36	441	2,730
Before 1900.	950	85	1	35	420
-	7,224	477	37	476	3,150

### REPORTS OF

# CHRIST HOSPITAL,

### JERSEY CITY, N. J.

YEAR.	Total No. of Patients.	Cases of Appendicitis.	Died.	OPERATIONS.	Total No. of All Ope- rations.
1892	507	1	0	0	181
1893	566	2	0	0 <	193
1894	741	5	1	0	235
1895	610	11	0	0	245
1896	658	30	8	24 (5 died.)	307
1898	875	38	3	37	447
1900	994	35	6	31	542
1901	1,171	89	15	97	670
1902	1,079	74	16	80	708
1900 and after.	3,244	198	37	208	1,820
Before 1900.	3,957	87	12	61	1,558
T <sub>1</sub> 1	7,201	285	49	269	5,378

# BROCKTON HOSPITAL,

### BROCKTON, MASS.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	DIED.	Operations.	Total No. of All Ope- rations.
900	292	27	0	24	145
901	345	84	6	28	171
902	325	30	4	27	171
903	825	58	6	60	286
904	449	67	7	56	225
	1,736	216	23	195	998

#### REPORTS OF

# CITY HOSPITAL,

### HAVERHILL, MASS.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Total No. of All Ope- rations.
1893	162	1 0 1 (0 died.)	16
1894	169	2 1 1 (1 died.)	26
1895	228	5 1 4 (1 died.)	59
1896	284	13 2 10 (2 died.)	68
1897	304	8 1 7 (1 died.)	114

#### REPORTS OF

### LEONARD MORSE HOSPITAL,

#### NATICK, MASS.

				1
1899	86	6 0	5	55
1901	118	11	11	57
1902	140	13 0	10	55
1903	145	25 3	23	63
1905	143	16 1	11	63
1906	187	31 0	30	95
1900 and after.	733	86 6	85	333
Before 1900.	86	6 0	5	55
	819	92	90	388

# MELROSE HOSPITAL ASSOCIATION,

# MELROSE, MASS.

YEAR.	Total No. of Patients,	Cases of Appendicities.	Died.
1896	136	4	1
1897	161	10	0
1898	178	11	0
1899	196	9	0
1900	238	12	2
1901	235	15	2
1902	283	19	0
1903	241	17	2
1904	220	11	0
1905	231	20	0
1900 and after	1,448	94	4
Before 1900	671	34	1
	2,119	128	5

#### HAS SURGICAL TREATMENT LESSENED

REPORT OF PRESBYTERIAN HOSPITAL, NEW YORK, N. Y.

Furnished through kindness of DR. C. IRVING FISHER, Superintendent.

.7001		:		25 25 1 25 16 16 3511	
'906I	10		111	256 3338	
.306I				19 262 29	-
.4001	- 10	-	111	32	
.5061		:	::::	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	-
.2001		1	111	23	
.1001	10		248	20	1
.0001				1 III III IIII IIII IIII IIII IIIIIIIII	
.668I			137	33 33 33 33 33 33 33 33 33 33 33 33 33	
.8681		:	107	7	-
.7081				81.	
.9681	::::		3	12882	-
.8951		1	29	14	
.4681		1	42	255	-
.5681		:	23.4	3	
.2681	101	-	4.00	11022484	
.1681	1	1	51	1	-
1890.	1	:			
.6881		:	10:01	1 1 2130	
.8881		1	4	1 1	
.7881		:			
.9881	· · · · · · · · · · · · · · · · · · ·	-		1800	
.8881		:			
.1881		:		1542	
.8881					
.2881	C1 : :	:	1	1202	
.1881 .1881		:	:":		-
the second se		:		111111111111111111111111111111111111111	-
·6281		:		222	_
'8281				612	_
.7781	- : :	:		***	_
	Medical Division. Perityphlitis	Deaths due to , perityphlitic	Surgical Division. Perityphlitic Abscess	Operations.       Operations.         Laparotomy       "         Laparotomy and Exploration for Perityphilitic Abscess       "         Ityphilitic Abscess       "         Appendicities Abscess       Drainage         Appendicetomy       "         Incision for Abscess       "         Incision for Appendicitis       "         Iaparotomy for Appendicitis       "         Intu	
	Meda Perityphlitis Typhlitis	Deaths due to Abscess, perityphlitic	Surg Perityphlitis Perityphlitid Appendicitis	Operations. Incision for Perityphl Laparotomy and Expli- ityphilitic Abscess. Appendicitis Abscess. Appendicectomy Drain Appendicectomy Drainage Incision for Abscess Incision for Abscess Laparotomy for Appen Strangulated Ingu Strangulated Ingu Laparotomy for Appen rent Laparotomy for Appen rent Laparotomy for Appen rent Laparotomy for Appen rent	

128

LLOWING OPERATIONS FOR APPENDICITIS AT PRESBY-	*.
FOR AP	ork, N. J
OPERATIONS	TERIAN HOSPITAL, New York, N. Y.*
FOLLOWING	TERIAN HO
DEATH	
OF	
CAUSES	

							:																																														
.700	1			_	1		:	:	-	:	:	•						:	•	:	:							:	-	:	:	-								_	:	-			:	:		:	:	:	:		
'906	I		:				:			1	:		:					:	:	:	:	:				:	:	:	:	:	:	:									:	-	:	:	:		-	:	-	-	:		
.3061	I								:	÷				1													-	:	:	1	-	-	-																				
.4061	a			-	10		•	-	:	-									-						1	•		1.		-	1						-	-		-	-						:			:	-		
.5061	I	6			1		:																1	1	-	-	•	1																			****			:	:		
.2061	I	6			11										1	-	-		-		-	-																		67		:						:	:	:	:		i
.1001	1	-			6			:												::																				+									-	-			
.0061	I																			-								:		:										9		Ŧ				:		:			-		
.6681	τİ	4										-	1		1					:								:		:					-					61	1	10		::			-			N -			dent
.8681	I	1									T									:	1	::								:											1			:				- •	T	:			nten
.7681	I	1									F				1					:									:	:	:													:	1					:			peri
.9681	I																			-	-									:												:::	+	-		÷		:					3, 84
.868I	1																			:	-								-	:							-			-		-	4			-	:	:	-	:			HEI
		Peritonitis	Feritobilits; General; Fneumonia	Feritonius; General; Secondary Abscsss	General	; General;	 	Peritonitis; General; Spreading Septicaemia	Peritonitis; Local; Intestinal Obstruction.	Peritonitis: Sentic	Peritonitis Pericarditis	Miltiple A hence: Santingamin	autopic a belaces, beproved in a second s	Supplicities in the monthy purchased and a supplicities of the supervised of the sup	Neburitas, Diplucata	r neumonia.	Alconolism; Acute Nephritic	Shock	Intestinal Obstruction.	Intestinal Obstruction: Pneumonia	Subdianhraymatic Absess. Runture into hume	Prolonhlahris		Acute Gastrints	Apopta Apopt	Septicaemia	Heart Failure.	Aortic Aneurism	Cellulitis of Back: Septicaemia.	Pulmonary Thrombosis.	Delirium Tremens	Pulmonary Embolism	A manual of the second s	A Future Intelling Channel Provide Street Stre	AC DUOCATULUS ONPOLIC FERICATULUS	Feritonius; Fost Operative Sinus.	Feritonitus; Intestinal Obstruction.	General Supprrente Abscess	General Ocdema of Lungs	Sepure Intersusception; Exhaustion	Contrast transfer to the second s		Protocological and a second se	Fxhaustion Shork	Pallary Calcult, Multipla A heaves. Somiconomic	Pharvneitis: Pulmonary Tuberenlosis, Septuraellia.	General Sensis	Pueumonia, Thromhosis Femoral Vain	Alcoholic Mania Acute	Septicaemia.	Pneumonia.	Chronic Nephritis	* Furnished through kindness of DR. C. IRVING FISHER, Superintendent

THE MORTALITY FROM APPENDICITIS ?

CAUSES OF DEATH AT PRESBYTERIAN HOSPITAL - Continued.

130

HAS SURGICAL TREATMENT LESSENED

### THE MORTALITY FROM APPENDICITIS ?

	SOR.	Total.	967 209 726	3,469	1		Percent-	15.8 7.6 9.3	:
	PERATIONS FO APPENDICITIS,		11 17 282 282 1	781 3		ATH	Total.	1531147	
	ATIO	Before 1900.	0.99			DE	Регсепt- аде.	25.5 17. 8.3	
	PERCENTAGE OPERATIONS FOR FATALITY, APPENDICITIS,	1900 and After.	748 192 1,304	2,688		OPERATIVE DEATHS.	Before 1900.	56	
	GE GE	Entire Period.	111. 12.6 13.4 15.3 6.7	12.3		PER	Percent-	12.9 6.7 9.5	
	TLIT	.0001	11.31 15.81 15.71 15.71 7.3	11.6 1		õ	1900 and After.	97 13 125	
	FATALITY.	Before					*'0681	2219 2247 2247 2247 2241 2231 2231 2231 2231 2231 2231 2231	
		1900 and After.	0 10.7 6 15. 3 14. 6 6.2	8 12.9		24			
	TOTAL NO. DEATHS.	.IntoT	169 154 193 193 193	938		ES ES	.0001	57 32 32 284	1
	OTAL NO DEATHS.	Before 1900.	52 19 1141 38	373		ATIC CAS	·9061	43	
	ToT	1900 and After.	315 39 315 39 28	565		REL TIS DTHI			:
1906.	ASES FIS.	.letoT	1,534 427 3,397 1,260 1,260	7,589		ENTAGE RELATI PPENDICITIS CAN TO ALL OTHERS	Feriod.	302 57 86 70 302 57 86 70	102
TO	TOTAL NO. CASES APPENDICITIS.	Before 1900.	614 151 1,310 636 520	3,231	d.)	PERCENTAGE RELATION APPENDICITIS CASES TO ALL OTHERS.	Before Before	135 172 166 78 361	147
1000	AL J	After.	920 920 624 451	4,358	onc	PER	After.	in 39 61 31 234 234	68
1890	TOT	pue 0061	63		ntíı		pue 0061	One in	3
25.174		umor	107,811 37,080 267,995 69,602 294,121	776,609	(Continued.)	NO			63
HOSPITALS	MBER S.	.fetoT		12	VI.	LATI EAL S ERS.	Fatire Feriod.	000000 01000	3.2
IdS	FAL NUMI PATIENTS.	'006T	$\begin{array}{c} 73,655\\ 26,069\\ 138,998\\ 49,844\\ 187,931\\ 187,931 \end{array}$	476,497		RE	-		
HO	TOTAL NUMBER PATIENTS,	Before	Contraction of the second second		TABLE	PERCENTAGE RELATION OF APPENDICEAL OPERATIONS TO ALL OTHERS.	Before 1900.	$     \begin{array}{c}       14. \\       0.3 \\       1.1 \\       1.8 \\       1.8 \\     \end{array} $	1.3
GN	To	1900 and After.	$\begin{array}{c} 34,156\\11,011\\128,997\\19,758\\106,190\end{array}$	300,112	TA	OF A 01 TO 1	After.	55.5 56.2 6 6 7 7	5.3
OREIGN			:::::	:		PEI	bas 0001		
FOI						F SES N.	Entire. Period.	53 <del>4</del> 8 53	52
			bng.			aE o s CA UPO	ouitud		
		3	a, Eng			PERCENTAGE OF APPENDICITIS CASES OPERATED UPON,	Before 1900.	35 20 11	28
		TTAI .	Engo alsta			ERCI END FERA		1888	89
		ISOH	ndon nken ng			P APP OI	bus 0001 After.		9
		Jo	spita I, Lo Iskra n, Er	gres.		LLL R.		29,283 9,217 46,985 22,342	107,827
		NAME OF HOSPITAL	St. Bartholomew's Hospital, London, Eng. Westminster Hospital, London, Eng. Hamburgischen Staatskrankenalstalten. Saint Thomas, London, Eng. Charite, Berlin.	Total and Averages.		TOTAL NUMBER OF ALL OPERATIONS, MAJOR AND MINOR,	.letoT		
		4	or Ho chen as, L rlin.	, bur		L NUMBER OF OPERATIONS, IOR AND MIN	Before 1900.	15,554 5,356 22,147 14,437 14,437	57,494
			tholo inster rgise hom	tal:		NU. PER	Before	:	
			St. Bartholomew' Westminster Hos Hamburgischen S Saint Thomas, Lo Charite, Berlin.	Tc		DTAL 0 MAJC	1900 and After.	13,729 3,861 24,838 7,905	50,333
		1	Sai Sai	1		E	1.4.9.0001		-

TABLE VI.

131

\*Earliest report.

#### REPORTS OF

# ST. BARTHOLOMEW'S HOSPITAL,

### LONDON, ENGLAND.

YEAR.	Total No. of Patlents.	CASES OF APPENDICITIS.	Died.	OPERATIONS,	Total No. of All Ope- rations.
1889	6,893	Medical Report: 27 Typhilitis (2 died) Surgical Report: 3 Perityphilitis (0 died)	2	0	783
1890	7,160	Medical Report : 2 Typhilitis Surgical Report: 4 Perityphilitis and Appendicitis (2 died)		5 (Abdominal Section, 3 died.)	994
1891	6,123	Medical Report: 18 Typhilitis (0 died) Surgical Report: 6 Perityphilitis and Appendicitis (0 died)		1 (Abdominal Section, 0 died.)	1,035
1892	6,046	Medical Report : 34 Typhilitis (1 died) Surgical Report : 5 Perityphilitis and Appendicitis (3 died)		4 (Abdominal Section, 3 died.)	1,131 .
1893	7,236	Medical Report: 23 Typhilitis (0 died) Surgical Report: 11 Perityphilitis and Appendicitis (2 died)		4 (Abdominal Section, 3 died.)	1,640
1894	6,976	Medical Report: 30 Typhilitis (5 died) Surgical Report: 11 Perityphilitis and Appendicitis (2 died)		Section, 4 died.)	1,770

# THE MORTALITY FROM APPENDICITIS ? 133

# ST. BARTHOLOMEW'S HOSPITAL - Continued.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	OPERATIONS.	Total No. of All Ope- ations.
1895	7,290	Medical Report: 19 Typhilitis (1 died) 4 Perityphilitic Abscess (2 died) Surgical Report: 12 Perityphilitis and Appendicitis (2 died)	32	10 (Abdominal Section, 3 died.)	1,835
1896	7,400	<ul> <li>Medical Report: 29</li> <li>23 Typhilitis</li></ul>		43 (14 died.)	1,971
1897	6,918	Medical Report: 37 34 Perityphilitis		39 (9 died.)	1,874
1898	6,874	Medical Report: 30 20 Perityphilitis 2 " with abscess (1 died) Surgical Report: 67 6 Acute without Suppuration 25 Chronic relapsing without sup- puration 31 Acute with Suppuration (8 died) 5 Chronic with abscess		59 (15 died.)	2,156

# ST. BARTHOLOMEW'S HOSPITAL - Continued.

YEAR.	Total No. of Patients.	Cases of Appendicities.	Died.	OPERATIONS.	Total No. of Al) Ope- rations.
1899	6,839	Medical Report: 26 24 Perityphilitis	1 3 12 2	90 (16 died.)	2,336
1900	6,548	Medical Report: 13 Perityphilitis (0 died) Surgical Report: 107 15 Acute without suppuration 44 Chronic relapsing without sup- puration 6 Acute Gangrenous (4 died) 27 Acute with suppuration (7 died) 13 Chronic with abscess (1 died). 2 Old Appendicitis	4 7 1	89 (12 died.)	2,140
1901	6,587	Medical Report: 10 Appendicitis Surgical Report: 156 42 Acute without suppuration 48 Chronic relapsing without sup- puration (1 died) 11 Acute Gangrenous (7 died) 45 Acute with suppuration (16 died 5 Chronic with abscess (1 died). 5 Old Appendicitis	1	121 (25 died.)	2,674

# THE MORTALITY FROM APPENDICITIS? 135

### ST. BARTHOLOMEW'S HOSPITAL -- Continued.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	Operations.	Total No. of All Ope- rations.
1902	6,899	Medical Report: 6 Appendicitis Surgical Report: 199 32 Acute without suppuration 98 Chronic relapsing without sup- puration (2 died)	2	171 (19 died.)	3,162
		15 Acute Gangrenous (13 died)         30 Acute with suppuration (5 died)         12 Chronic with abscess         4 Old Appendicectomy	5		
1903	7,117	<ul> <li>11 Appendicitis</li> <li>Surgical Report: 204</li> <li>46 Acute without Suppuration</li> <li>85 Chronic relapsing without suppuration (2 died)</li> <li>15 Acute Gangrenous (11 died)</li> </ul>	2 11	165 (20 died.)	2,956
		<ul> <li>32 Acute with abscess (7 died)</li> <li>13 Chronic with abscess</li> <li>8 Old Appendicitis—abscess previously opened (8 died)</li> <li>5 Old Appendicectomy</li> </ul>	1		
1905	7,005	Medical Report: 9 Appendicitis Surgical Report: 205 19 Acute Gangrenous (12 died) 20 Acute with suppuration (3 died) 38 Acute with abscess (4 died) 73 Acute without suppuration 55 Chronic relapsing or quiescent (2 died)	$     \begin{array}{c}       12 \\       3 \\       4 \\       2     \end{array} $	202 (21 died.)	2,797
1900 and after.	34,156	920	99	748	13,729
Before 1900	73,655	614	70	219	15,564
	107,811	1,584	169	967	29,283

1

#### REPORTS OF

# WESTMINSTER HOSPITAL,

LONDON.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	OPERATIONS.	Total No. of All Ope- rations.
1889	2,230	Medical Report : 8 cases Typhilitis 1 case Perforated Appendix.	2		210
1890	2,488	Medical Report : 6 cases Typhilitis 3 cases Perforated Appendix	2	4	368
1891	2,296	Medical Report: 5 cases Typhilitis Surgical Report: 1 case Perforated Appendix.	1	Abdominal Section : 1	263
1892	2,718	Medical Report : 14 cases Typhilitis Surgical Report : 1 case Typhilitis 1 case Perforated Appendix .	1	(1 died.)	313
1893	2,655	Medical Report : 9 cases Typhilitis Surgical Report : 2 cases Typhilitis		1 (1 died.)	343
1894	2,756	Medical Report: 3 cases Perforated Appendix 12 cases Typhilitis Surgical Report: 1 case Typhilitis 1 case Perforated Appendix.	3	(1 died.) Abdominal Section : 1	694
1895	1,960	Medical Report : 4 cases Typhilitis 2 cases Perforated Appendix Surgical Report : 1 case Typhilitis	2		383

### THE MORTALITY FROM APPENDICITIS? 137

# WESTMINSTER HOSPITAL - Continued.

YEAR.	Total No. of Patients.	Cases of Appendicitis.	Died.	OPERATIONS.	Total No. of All Ope- rations.
1896	2,290	Medical Report : 21 cases Typhilitis Surgical Report : 4 cases Perityphilitis, Typhi- litis and Appendicitis	2	Abdominal Section : 1	723
1897	2,407	Medical Report : 7 cases Typhilitis Surgical Report : 1 case Appendicitis	1	Abdominal Section : 1	756
1898	2,501	Medical Report : 4 cases Typhilitis Surgical Report : 16 cases Appendicitis	$\frac{2}{4}$		765
1899	1,768	Medical Report : 3 cases Typhilitis Surgical Report : 20 cases Appendicitis	1 1	Abdominal Section : 12 (0 died.)	538
1900	2,060	Medical Report: 11 cases Appendicitis Surgical Report: 16 cases Perityphilitis and Appendicitis	2	Abdominal Section : 12 (2 died.)	715
1901	2,518	Medical Report : 2 cases Appendicitis Surgical Report : 42 cases Perityphilitis and Appendicitis	7	Abdominal Section : 29 (4 died).	833
1902	2,043	Medical Report: 6 cases Appendicitis Surgical Report: 45 cases Appendicitis and Perityphilitis	1	Appendicial Excision : 34 (0 died.)	613

#### HAS SURGICAL TREATMENT LESSENED

.

# WESTMINSTER HOSPITAL - Continued.

YEAR.	Total No. of Patients.	Cases of Appendicitis.	Died.	OPERATIONS.	Total No. of All Ope- rations.
1903	2,222	Medical Report : 5 cases Appendicitis Surgical Report : 80 cases Appendicitis	1 11	Appendicec- tomy: 65 (7 died.)	84
1904	2,168	Medical Report : 2 cases Appendicitis Surgical Report : 29 cases Appendicitis 36 " Appendicial Abscess. 1 case Typhilitis	7	Appendicec- tomy: 65 (7 died.)	856
1900 and after.	11,011	276 cases Appendicitis	30	192 (13 died.)	3,861
Before 1900.	26,069	151 " "	24	17 (3 died.)	5,856
	37,080	427	54	209	9,217

#### THE MORTALITY FROM APPENDICITIS? 139

#### REPORTS OF

### HAMBURGISCHEN STAATSKRANKENANSTALTEN

# (Neues Allgemeines Krankenhaus.)

YEAR.	Total No. of Patients,	Cases of Appendicities.	Died.	OPERATIONS.	Total No. of All Ope- rations.	
1889	12,016	Medical report: 52 cases Perityphilitis	0	Abscess opened : 1.	1,636	
1890	11,381	Medical report : 64 cases Perityphilitis	5	0	844	
1891	13,407	Medical report : 95 cases Perityphilitis Surgical report : 12 cases Perityphilitis	4	Abdominal Section: 3. Abscess incised: 7 (2 died.)	2,265	
1892	15,748	Medical report : 99 cases Perityphilitis	2	Abscess incised : 4 (0 died.) Abdominal Section : 4 (1 died.)	2,267	
1893	10,906	Medical report : 70 cases Perityphilitis Surgical report : 26 cases Perityphilitis	3	Abscess incised : 3. Abdominal Section : 14.	2,085	
1894	8,713	Medical report: 64 cases Perityphilitis Surgical report: 28 cases Perityphilitis	4	Abscess incised : 4 (1 died.) Abdominal Section : 24 (4 died.)	2,489	

.

1

### HAMBURGISCHEN STAATSKRANKENANSTALTEN - Cont.

YEAR.	Total No. of Patients.	Cases of Appendicities.	Died.	Operations.	Total No. of All Ope- rations.
1895	9,016	Medical report: 61 cases Perityphilitis Surgical report: 28 cases Perityphilitis and Appendicitis	2 5	Abscess incised: 4 (1 died.) Abdominal Section: 16.	2,237
1896	8,787	Medical report : 61 cases Perityphilitis and Appendicitis Surgical report : 29 cases Perityphilitis and Appendicitis	1	Abscess incised: 2. Abdominal Section: 25 (2 died.)	2,084
1897	11,159	Medical report: 158 cases Perityphilitis, Ap- pendicitis and Peritonitis.	20	Abscess Incised: 19 (3 died.) Abdominal Section: 27.	1,913
1898 .	23,102	Medical report : 218 cases Peritonitis and Peri- typhilitis		Abscess incised : 9. Abdominal Section : 27.	2,081
1899	14,768	Medical report : 245 cases Peritonitis and Peri- typhilitis	46	70 (8 died.)	2,146
1900	16,237	Medical report: 237 cases Peritonitis and Peri- typhilitis	34	77 (9 died.)	3,136
1901	16,590	Medical report: 285 cases Peritonitis and Peri- typhilitis	50	78 (15 died.)	3,227
1902	16,390	Medical report : 214 cases Peritonitis and Peri- typhilitis	34	124 (18 died.)	3,160

## HAMBURGISCHEN STAATSKRANKENANSTALTEN - Cont.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	OPERATIONS,	Total No. of All Ope- rations.
1903	9,444	Medical report : 292 cases Peritonitis and Peri- typhilitis	40	151 (8 died.)	2,744
1904	9,619	Medical report : 292 cases Peritonitis and Peri- typhilitis	65	246 (38 died.)	3,307
1905	10,323	Medical report: 430 cases Peritonitis and Peri- typhilitis	45	303 (22 died.)	3,350
1906	11,394	Medical report : 520 cases Peritonitis and Peri- typhilitis	47	325 (15 died.)	5,914
1900 and after	128,997	2,087 cases Appendicitis	315	1,304	24,838
Before 1900	138,998	1,310 " "	141	263	22,147
	267,995	3,397 " "	456	1,567	46,985

.

#### REPORTS OF

### ST. THOMAS HOSPITAL,

#### LONDON, ENG.

YEAR.	Total No. of Patients.	Cases of Appendicitis.	Died.	OPERATIONS.	Total No. of All Ope- rations.
1890	4,643	<ul> <li>31 Medical report :</li> <li>(28 Perityphilitis — 0 died)</li> <li>(3 Perforative Appendicitis — 3 died)</li> </ul>		1 Abscess Opened. 2 Laparatomy.	791
1891	4,667	<ul> <li>26 Medical report: (24 Perityphilitis — 0 died)</li> <li>(2 Perforative Appendicitis — 2 died)</li> <li>1 Surgical report: (1 died)</li> </ul>		2 Incised. 1 Laparatomy. 1 Appendicec-	975
1892-3	5,190	<ul> <li>28 Medical report: Perityphilitis — (6 died)</li> <li>3 Surgical report: ( 2 Perityphilitis — 1 died)</li> <li>( 1 Sinus, Perforated Appendix — 1 died)</li> </ul>	6 2	tomy. 10 Incised 2	1,108
1894		<ul> <li>46 Medical report : Appendicitis — (11 died)</li> <li>3 Surgical report :</li> </ul>	11	7	1,376
"Apper	ndicitis '	" now. ( 2 Recurrent Appendicitis ( 1 Acute Appendicitis — 1 died)	1		
1895	5,755	44 Medical report: Appendicitis — (10 died) 15 Surgical report: ( 7 Acute — 4 died) ( 7 Chronic — 1 died) ( 1 Sinus — 0 died)		22	1,718
1896	5,997	(1 Sinus — 0 died) 47 Medical report: (12 died) 23 Surgical report: (9 Acute — 1 died) (14 Chronic — 1 died)	5 12 1	36	1,947

### ST. THOMAS HOSPITAL -- Continued.

YEAR.	Total No. of Patients.	NO. OF CASES APPENDICITIS.	Died.	OPERATIONS.	Total No. of All Ope- rations.
1897	6,100	80 Medical report: (13 died) 22 Surgical report: ( 4 Acute — 2 died) (18 Chronic — 0 died)	13 2	39	2,153
1898	6,140	72 Medical report: (15 died) 49 Surgical report: ( 9 Acute — 2 died) (47 Chronic — 0 died)	15 2	75	2,242
1899	5,933	81 Medical report: (8 died) 60 Surgical report: (23 Acute — 6 died) (37 Chronic — 0 died)	8 6	82	2,127
1900	5,261	<ul> <li>72 Medical report: (17 died)</li> <li>88 Surgical report: (56 Appendicitis — 2 died)</li> <li>(24 " and Abscess — 1 died)</li> <li>( 8 Appendicitis and General Peritonitis — 7 died)</li> </ul>	17 2 7	117	2,013
1901	7,038	<ul> <li>82 Medical report: (22 died)</li> <li>110 Surgical report: (66 Appendicitis — 0 died)</li> <li>(36 Appendicitis with abscess— 5 died)</li> <li>(1 Local Peritonitis — 0 died)</li> <li>(7 General " 5 died)</li> </ul>		146	2,609
1902	7,459	<ul> <li>110 Surgical report : (14 died) (87 Appendicitis – 0 died)</li> <li>(52 " with abscess – 9 died)</li> <li>( 6 Appendicitis with local Peritonitis – 0 died)</li> <li>(17 Appendicitis with general peritonitis – 11 died)</li> </ul>	14 9 11	181	3,283
1900 and after	19,758		93	444	7,905
Before 1900	49,844	636	100	282	14,437
	69,602	1,260	193	726	22,342

1

#### REPORTS OF

### CHARITE HOSPITAL,

#### BERLIN.

YEAR,	Total No. of Patients.	CASES OF APPENDICITIS.	DIED.
1890	20,308	Medical Report: 45	0
XV		Surgical Report: 2	0
1891 XVI	20,043	Medical Report: 55 Surgical Report: 6	4
1892 XVII	20,352	Medical Report: 81 Surgical Report: 5	$\frac{3}{2}$
1893	18,919	Medical Report: 42	1
XVIII		Surgical Report: 3	1
1894	21,243	Medical Report: 44	1
XIX		Surgical Report: 7	1
1895	20,582	Medical Report: 33	3
XX		Surgical Report: 1	0
1896	18,832	Medical Report: 28	0
XXI		Surgical Report: 3	0
1897	18,934	Medical Report: 52	3
XXII		Surgical Report: 15	4
1898 XXIII	18,934	Medical Report: 26 Surgical Report: 7	$\begin{array}{c} 1\\ 0\end{array}$
1899	18,284	Medical Report: 46	7
XXIV		Surgical Report: 19	6
1900	18,238	Medical Report: 41	0
XXV		Surgical Report: 23	1

1410

#### CHARITE HOSPITAL - Continued.

	o. of its.		
YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	DIED.
1901 XXVI	18,676	Medical Report: 23 Surgical Report: 36	$1 \\ 3$
1902 XXVII	18,538	Medical Report: 37 Surgical Report: 38	$\begin{array}{c} 0\\ 5\end{array}$
1903 XXVIII	16,804	Medical Report: 49 Surgical Report: 20	$\frac{1}{3}$
1904 XXIX	17,173	Medical Report: 44 Surgical Report: 35	$\begin{array}{c} 0 \\ 3 \end{array}$
1905	16,761	Medical Report: 66 Surgical Report: 39	3 8
1900 and after.	106,190	451 (28 died-6.2%)	
Before 1900.	187,931	520 (38 died-7.3%)	
	294,121 (1 in 302)		

1

10

.

#### TABLE VII.

# Showing increase in mortality of Appendicitis and decrease in Peritonitis from available Census Reports.

	Deaths per 100,000 popu- lation from Appendicitis.	Deaths per 100,000 popu- lation from Peritonitis.	Affections of the Stom- ach except Ulcer per 100,000 popu- lation.
U. S. Census Report	$\begin{array}{c} 10.6 \\ 12.0 \end{array}$	$\begin{array}{c} 15.1\\10.1\end{array}$	
Report of Registrar General for England and Wales	3.8 6.2	$\begin{array}{c} 4.7\\ 2.4\end{array}$	*
Annario Estadistico de la República Oriental del Uruguay, Annos 1904 á 1906 Montevideo 19071893 1905	.4	6.4 8.1	$\begin{array}{c} 12.3\\ 2.0\end{array}$
De la Fréquence des Principles Causes de Décés à Paris 1886–1905 Jaques Bertillon, Paris 1906 (Imprimee Municipale	$     \begin{array}{c}       .9 \\       1.1 \\       3.0 \\       6.6 \\     \end{array} $		
Statische Jahrbuch der Stadt-Berlin 1907 Verlagion P. Stankiewicz 1904–5		11.9	

#### TABLE VIII.

#### ROOSEVELT HOSPITAL OPERATIONS.

YEAR.	CASES OF APPENDICITIS AND NATURE OF DIED.
1873 to 1876.	00
1877	<ul> <li>3 Perityphlitis. 1 Perforation Vermi- form Appendix and Local Perito- nitis, 1 died</li></ul>
1878	Medical Report : 2 Perityphlitis.
1879 to 1883.	0 0
1884:	2 Incision Perityphlitic Abscess
1885	2 " " "
1886	1 " "
1887	5 " " … 1
1888	<ul> <li>3 Incision and Drainage for Perityph- litis</li></ul>
1889	<ul> <li>3 Acute, Excision of Appendix</li> <li>4 "with Abscess, Excision of Appendix</li> <li>3 " " Incision and drain-</li> </ul>
	age 3 " " and General Sup- purative Peritonitis, Excision of Appendix Appendix

. .

YEAR.	CASES OF APPENDICITIS AND NATURE OF OPERATIONS.	DIED.
1890	<ol> <li>Acute, Excision of Appendix, Langenbeck's Incision, no Drainage</li></ol>	
	<ol> <li>Acute, " " Parker's Drainage</li> <li>Perforative General Suppurative Appendicitis, Median Laparotomy</li></ol>	1 (Peritonitis.)
1892	<ul> <li>14 Acute with Abscess, Excision of Appendix, Drainage.</li> <li>5 Acute with Abscess, Drainage of Appendix not removed.</li> <li>4 Recurrent Interval Excision of Appendix</li> <li>5 Sinus following Appendicitis.</li> <li>4 Fecal Fistula following Appendicitis.</li> </ul>	(General Septic Per- itonitis. 1
1893	12 Acute with Abscess, Appendix not removed 8 " Appendix excised	ticaemia.) 1 december (Valvular.) 1
	<ol> <li>" General Peritonitis, Appendix Excised.</li> <li>2 Gangrenous, Appendix Excised, Drainage.</li> <li>1 Perforative, Septicaemia.</li> <li>2 " General Peritonitis.</li> <li>8 Relapsing in Interval, no Drainage.</li> <li>4 " " " Partial Packing</li> <li>2 Sinus after Appendicitis</li> <li>1 Lumbar Drainage after Appendicitis.</li> <li>2 Recision, Appendicitis Wound.</li> </ol>	1 1 (Shock.) 1 1 1 (Valvular.)

Starrow Starrow		
YEAR.	CASES OF APPENDICITIS AND NATURE OF OPERATIONS.	DIED.
1894	14 Acute with Abscess, Appendix not removed. 11 """""excised 2 "without"""""	
	<ul> <li>7 "General Peritonitis, Appendix excised.</li> <li>1 """""" not "</li> <li>5 Relapsing, Interval, Usual Incision, No Drainage</li> </ul>	6 1
	<ul> <li>2 Relapsing, in Interval, Usual Incision, Partial Drainage</li></ul>	
	2 Relapsing, in Interval, McBurney's In- cision, Partial Drainage	
	<ol> <li>Supposed Acute Appendicitis, Laparatomy negative</li> <li>Secondary Abscess following Acute Appen- dicitie</li> </ol>	
	dicitis	
	<ul> <li>3 Fecal fistula following Acute Appendicitis (same case)</li></ul>	
1895	<ul> <li>18 Acute, Removal of Appendix</li> <li>10 " Abscess, Incision and Drainage</li> <li>1 " with progressive Peritonitis, remo-</li> </ul>	$\frac{2}{1}$
	6 " with General Peritonitis	1 5
	1 Subacute       2         2 Relapsing, Removal of Appendix       14         14       " McBurney's	
	incision 1 Relapsing, Removal of Appendix, Drainage. 5 Chronic " "	3
	1"Abscess. Removal of Appendix1"Enterorrhaphy, Removal of Appendixpendix	1
	<ol> <li>Abdominal pain, Exploratory laparatomy and removal of Appendix</li> <li>Pain following Appendicitis, Exploratory</li> </ol>	
	laparatomy	

-

YEAR.	CASES OF APPENDICITIS AND NATURE OF OPERATIONS.	DIED.
1895	1 Sinus following Appendicitis operation,	
Cont.)	Appendix and Sinus removed	1
	1 Abscess (not found) following Appendicitis	-
	3 Sinus following Appendicitis operation,	1
	Recision	1
	1 Sinus following Appendicitis operation,	
	1 Sinus following Appendicitis operation,	
	Rectal Drainage	
	3 Fecal fistula following Appendicitis opera- tion, Recision	1 <u>.</u>
896	11 Acute, Removal of Appendix Drainage 1 " " " McBurney's	2
	method	
	1 " closure	
	25 " Incision and Drainage, Abscess 1 " " " En-	1
	terorrhaphy	
	5 " progressive Peritonitis, Removal Appendix, Drainage	
	1 " localized Peritonitis, Incision and	
	4 " general Peritonitis Removal of	
	4 " general Peritonitis, Removal of Appendix, Drainage	4
	2 Subacute Removal of Appendix, McBur-	
	1 " Incision of Abscess, Drainage	1
	15 Recurrent, Removal of Appendix, McBur-	
	2 " Removal of Appendix, McBurney's	
	2 method	
	1 "_ Abscess Incision and Drainage	
	1 " and Dermoid of Ovary 3 Chronic, Removal of Appendix	
	5 " " McBurney's	-
	1 Exploratory laparatomy for pain, Appendix	1
	removed	

1 . . I

YEAR.	Cases of Appendicitis and Nature of Operations.	Died.
1896 (Cont.)	<ol> <li>Localized Peritonitis following Appendix operation, Laparatomy and Drainage</li> <li>Septic Peritonitis following Appendix ope-</li> </ol>	1
	ration Drainage1 Abscess, Old Appendicitis3 " secondary to Appendix operation,	1
	Incision Drainage	1
	2 Sinus 1 Fecal Fistula	
1897	2 Acute, Removal Appendix, Drainage 2 " " " McBurney's	1
	<ul> <li>method</li> <li>37 " Incision and Drainage, Abscess</li> <li>6 " and progressive Peritonitis, Removal</li> </ul>	6
	Appendix	2
	7 " General Peritonitis	7
	1 Recurrent, Removal of Appendix 36 " " McBurney's	1
	method 2 Chronic, Removal of Appendix 4 " " McBurney's	
	1 Abscess secondary to Appendix operation, Incision and drainage	
	1 Adhesions secondary to Appendix operation.1 " Intestinal obstruction1 Recurrent with Nephroptosis	1
1898	ation (Intermuscular Appendicectomy	
	1 Acute (during attack), Appendicectomy and Drainage	1
	<ul> <li>24 Acute Abscess, Appendicectomy and Drainage</li></ul>	2
	pendicectomy and Drainage 10 Acute Gangrenous, Septic Peritonitis, Ap- pendicectomy and Drainage	6
	I man a m	

•\_\_\_\_

YEAR.	CASES OF APPENDICITIS AND NATURE OF OPERATIONS.	DIED.
1898 (Cont.)	<ul> <li>2 Acute Abscess, Progressive Peritonitis, Appendicectomy and Drainage</li> <li>3 Acute Abscess, Sepsis, Appendicectomy and Drainage</li> </ul>	3
	<ul> <li>3 Abscess, secondary to Appendix operation, Appendicectomy and Drainage</li> <li>1 Recurrent during attack, Appendicectomy Intermuscular</li> </ul>	
	<ul> <li>32 Recurrent, interval, Appendicectomy In- termuscular</li> <li>6 Recurrent, interval, Appendicectomy</li> <li>6 " and Abscess, Appendicectomy</li> </ul>	1 1
	and Drainage	1
	1 Recurrent, with Progressive Peritonitis         1 Chronic Abscess         1 Recurrent and Endometritis         1 Abdominal Colic (Appendicitis?) Explor-	1
1899	atory Coeleotomy 1 Acute (during attack), Appendicectomy (Intermuscular)	
	<ul> <li>4 Acute, Appendicectomy Drainage</li> <li>35 with Abscess, ""</li> <li>1 "" and Progressive Focal Peritonitis, Appendicectomy Drainage</li> </ul>	5
	<ol> <li>with General Peritonitis, Miscarriage, Sep- ticaemia</li> <li>8 Acute Gangrenous, General Septic Peri-</li> </ol>	1
	tonitis	4
	1 Multiple Sinuses, Abdominal Wall, follow- ing Acute Appendiceal Abscess	1 (Fecal Fistula.)
	57 Recurrent, Appendicectomy Intermuscular 6 Recurrent, (Interval)	(Died Inanition.)

Contraction of the Contraction of the		
YEAR.	CASES OF APPENDICITIS AND NATURE OF OPERATIONS.	DIED.
1899 (Cont.)	<ul> <li>5 Recurrent, Abscess</li></ul>	1 (Fecal Fistula.)
	1 broken Drainage Tube in Pelvis, following operation for Appendiceal Abscess	(Died Inanition.) 1 (Sepsis.)
1900	49 Recurrent Appendicectomy (Intermuscular) 24 Gangrenous and General Peritonitis, Ap- pendicectomy and Irrigation-Drainage	1 13
	<ul> <li>24 Acute Abscess</li></ul>	2
	age	
	<ul> <li>7 Chronic, Appendicectomy (Intermuscular).</li> <li>1 Chronic and Intestinal Adhesions, Appendicectomy and Enterorrhaphy.</li> <li>1 Chronic and Abscess, counter opening flank</li> <li>3 Secondary Abscess, following operation, Gangrenous Peritonitis and General Peritonitis</li> </ul>	1
	Peritonitis	1

1

YEAR.	CASES OF APPENDICITIS AND NATURE OF OPERATIONS.	DIED.
1901	40 Recurrent, Appendicectomy(Intermuscular)	(Delivium Tromone)
	2 Catarrhal, "	(Delirium Tremens.)
	8 Gangrenous, " Drainage-Irrigation	2
	8 " " " "	
	General Peritonitis	2
	43 Acute, with Abscess, Appendicectomy-	
	Drainage-Irrigation	5
	2 Acute, with General Peritonitis, Appen-	1
	dicectomy-Drainage-Irrigation 1 Chronic, with Tubercular Peritonitis, Ap-	1
	pendicectomy (not drained) Irrigation.	
	1 Chronic, with Floating Kidney	1.
	5 Chronic, Appendicectomy (Intermuscular)	
	1 " with Retroverted Uterus, Appen-	
	dicectomy (Intermuscular)	
1902	20 Acute Cetambel Acute lisester	
1502	20 Acute Catarrhal Appendicectomy 10 " with Spreading Peritonitis Appen-	
	dicectomy no Drainage	1
	7 Acute with Spreading Peritonitis Appen-	
	dicectomy Drainage	5
	53 Acute with Abscess Appendicectomy	
	Drainage	6
	7 Gangrenous and General Peritonitis Ap-	
	pendicectomy Drainage	4
	35 Chronic Appendicectomy 37 Recurring	
	4 Chronic with Ovarian cyst	
	1 " " Fistula	
	1 " " Femoral Hernia	
	1 " " Retroversion of Uterus	
	1 Adhesions about Appendix	
1903	15 Acuto Appendiagetemy	0
1000	45 Acute, Appendicectomy	0
	Drainage	0
	1 Appendicular Colic	
	18 Acute with Spreading Peritonitis Appen-	
	dicectomy and Drainage	8

YEAR.	CASES OF APPENDICITIS AND NATURE OF OPERATIONS.	DIED.
1903	6 Acute with Spreading Peritonitis Closed	
(Cont.)	and Drainage	1
	4 Gangrenous with Spreading Peritonitis	2
	1 With Strangulated femoral Hernia, Ap- pendicectomy and Bassini's Operation.	
	1 Chronic with Tuberculosis of Mesenteric	
	Lymph Noves	
	3 Acute with Acute Salpingitis 1 Retrocecal Abscess after Appendicectomy.	
	1 Sinus following Appendicectomy; Lapara-	
	tomy and Resection 8 inches of Caecum and Ilium	
	has. McBurney appointed April	
	, to succeed after resignation Henry B. Sands, Dr. McBurney,	
	report resigned.	
1904	45 Acute Appendicectomy.	1
	35 " with Abscess Appendicectomy and Drainage	
	9 Acute with Spreading Peritonitis Appen- dicectomy and Drainage	1
	21 Acute with Spreading Peritonitis Appen-	-
	dicectomy no Drainage 9 Acute with General Peritonitis Appendi-	
	cectomy and Drainage	6
	92 Chronic 4 Acute with Abscess Drainage, Appendix	1
	not Removed	
	dicectomy	
	1 Perityphilitis and Inverted Appendix Appendicectomy and Colotomy	
	1 Chronic with Actinonycosis of Caecum,	1
	Resection of Caecum         1           1 Fecal Fistula Enterororrhaphy         1	,
	1 Acute with Intestinal Obstruction, Appen-	
	dicectomy and Enterolysis	

•\_\_\_\_

-		
YEAR.	Cases of Appendicitis and Nature of Operations.'	DIED.
1905	40 Acute Appendicectomy	1
	38 " with Abscess Appendicectomy and Drainage	1
	1 Acute with Abscess and Spreading Peri-	-
	tonitis Appendicectomy and Drainage	
	8 Acute with Spreading Peritonitis Appen-	
	dicectomy and Drainage	1
	14 Acute with General Peritonitis Appendi- cectomy and Drainage	7
	65 Chronic Appendicectomy	2
	6 Gangrenous Appendicectomy and Drainage	
	1 " with General Peritonitis (No	
	Memorandum	1 -
	35 Catarrhal Appendicectomy	1
	1 Tuberculous Exploratory Laparatomy 1 Appendicitis with Salpingitis, Appendi-	
	cectomy and Salpingectomy	
	1 Appendicitis with Pelvic Abscess Perineal	
	Drainage 1 Appendicitis with Tubercular Peritonitis, Appendicectomy.	
	1 Abscess of Appendix, secondary, Kammer's Incision and Drainage	
	1 Abscess of Appendix, Old Appendicectomy	
	and Drainage	1
	3 Abscess of Appendix, Median Incision and	
	1 Hydrops of Appendix, Appendicectomy	
	1 Pain of Appendiceal Stump Laparatomy and	
	Incision of Stump	
1906	1 Appendicular Colic Appendicectomy	
	2 Interval Appendicectomy	
	74 Chronic "	1
	51 Acute "	
	49 " with Abscess Appendicectomy and Drainage	2
	Drainage	-
	cision and Drainage 4 Appendicitis with Spreading Peritonitis,	
	Appendicectomy	2

YEAR.	CASES OF APPENDICITIS AND NATURE OF OPERATIONS.	DIED.
1906 (Cont.)	<ul> <li>6 Appendicitis with Spreading Peritonitis, Appendicectomy and Drainage</li> <li>1 Appendicitis with Spreading Peritonitis, Subphrenic Abscess, Empyaema Appendicectomy and Drainage Incision and Drainage of Abscess, Resection of Rib.</li> <li>3 Appendicitis with General Peritonitis, Appendicectomy</li></ul>	2
	1 Appendicitis with Adenocorcinoma of Per- itoneum Appendicectomy	

-

#### TABLE IX.

#### ST. BARTHOLOMEW'S HOSPITAL OPERATIONS.

YEAR.		CASES OF	APPENDICIT	TIS AND NATURE OF OPERATIONS.	DIED.
1888	9 Ab	dominal S	Sections fo	r Acute Peritonitis	8
1889	1 Ex	cision of	Vermiforn	Appendix	0
1890	5 A	bdominal \$	Sections fo	or Appendix and Peritonitis	3
1891	1	"		Typhlitis	1
1892	4	"	** **	"	
1893	4	"	دد در	Appendicitis	-3
	$\begin{pmatrix} 4\\ 6 \end{pmatrix}$	"	" "	Suppurative Peritonitis	4
1894	6	"	** **	Appendicitis	4
1895	10	cc *	cc cc	"	3
1896	7 A	oute with	Suppuratio	on, Appendix removed, Irrigation,	
	3		"	" Drainage	4
	13		"	" not removed, limited	3
				incision through per. adhesions	3
	2		61	" not searched for, no Irrigation, simple	
	2		"	" Drainage " removed, limited In-	2
				cision through per adhesions	
				ation, Appendix not searched for, ugh per. adhesions	
	8 Cl	aronic Rec	urrent wit	hout Abscess, Appendix removed. ation of Intestines by Adhesions,	
		Appendix	removed.		1
				Sinuses, removal of Appendix and	1

YEAR.		C	CASES OF	APPENDICITI	IS AND NATURE OF OPERATIONS.	DIED.
1897	1	Acute	withou	t External	Suppuration, Exploratory Incision.	
	2	Acute	with	Suppuration	on, Appendicectomy, Irrigation,	1
	5	"	"	"	Drainage Appendicectomy, Irrigation,	1
					no search for Appendix,	5
	1	"	"	"	no search for Appendix, sim-	
	1	41	"	"	ply Drainage, no Irrigation	1
	1				Local Sponging, no search for Appendix	
	13	"	"	"	Limited Incision through per.	
					adhesions, Appendix not	
	0	Chron	ie with	Absons	removed	2
	-	Chion	ie with	AUSCESS, J	Appendix removed, Local Spong- ing, Drainage	
	1	**	"	" ]	Limited Incision through adhesion,	
	1	~			no search for Appendix.	
	13		ic Recu remove		out External Suppuration, Appen-	
1000	0		-:	+ E-t	The last I in	
1898	3	Acute	withou "	it External	pus-Exploratory Incision " Appendicectomy-Irrigation-	. 1
					Drainage	3
	2	"	"	"	" Irrigation, no search for	
					Appendix	2
	4	"	""	"	" no Irrigation, no search for	
	4	"	66	"	Appendix, simply Drainage " Appendix removed	$\frac{2}{0}$
	16	"	"	"	" " not removed, limited	
		-			Incision through Peritoneal	
	5	Chroni	a mith	Abaaaa	Adhesions	
	$\frac{5}{21}$	chroni "			Appendix removedal Suppuration, Appendix removed	1
	1	""			oved	
1000						
1899		Acute "	withou	t External	Suppuration, Exploratory Incision	
	23		with S		" Appendix removed Appendix removed, Drainage	2
	24	**	"		pendix not searched for Drainage.	$\tilde{9}$

-

1

#### TABLE IX. - Continued.

YEAR.	CASES OF APPENDICITIS AND NATURE OF OPERATIONS.	DIEI
1899	3 Acute Gangrenous, Appendicectomy, Drainage	1
Cont.)	1 " " Peritoneal cavity washed out, but no	
	1 " " search for Appendix no washing, Simply Drainage, Ap-	1
	pendix not searched for	1 1
	2 Chronic with Abscess, Appendix removed	1
	4 " " no search for Appendix	1
	36 " without External Suppuration, Appendix removed 1 " " " " " limited incision	
	through adhesions, no removal of Appendix	
	1 Old Appendicitis, Removal of Stitch	
	1 Removal of Appendix for Hernia	
	i iteme tai et inpreman ter itematik	-
1900	1 Acute without External Suppuration, Exploratory incision	1
	5 " " " Appendix removed	
16.100	9 Acute with suppuration, Drainage, Appendix removed	5
	17 " " " but no search for Ap-	
	pendix	$\frac{2}{3}$
	5 Acute Gangrenous, Drainage and Appendix removed	5
	1 " " Appendix not searched for	1
	8 Chronic with Abscess, Appendix removed	1
	not	1
	1 " Recurrent without External Suppuration, Explor- ratory incision	
	86 " Recurrent without Appendix removed	
	1 " " " not " limited in-	
	cision through adhesions	
	1 removal of Appendix for Hernia	
901	21 Acute without External Suppuration, Appendix removed.	
	40	1
	1 Acute Gangrenous, Drainage, no search for Appendix	1
	10 " " and Appendix removed	$     \begin{array}{c}       1 \\       6 \\       5     \end{array} $
	11 "with suppuration " " "	
	34 """"but no search for Appendix.	11
	2 Chronic with suppuration, Appendix removed 3 " " Drainage, but no search for Ap-	
	3 " " Drainage, but no search for Ap- pendix	1
	penuix	1
1902	1 Incision of Actinomycosis	
	1 Removal of Appendix for Carcinoma	

#### TABLE IX. - Continued.

YEAR.	CASES OF APPENDICITIS AND NATURE OF OPERATIONS.	DIED
1902.	1 Removal of Appendix for Tubercle	
	16 Acute without External Suppuration, Appendix removed. 2 " " " Exploratory incision.	1
	93 Chronic, Removal of Appendix	2
	4 Acute Gangrenous, Drainage, no search for Appendix	$     \begin{array}{c}       2 \\       4 \\       7 \\       4 \\       1     \end{array} $
	9 " " Appendix removed and Drainage	7
	14 " with Suppuration, Appendix removed	4
	15 " " Drainage, no search for Appendix	1
	2 Chronic with Abscess, Appendix removed, Drainage	
	10 " " Drainage, no search for Appendix.	
	6 Old Appendicitis, Appendix removed	
903	21 Acute without External Suppuration, Free Incision and	
	Appendix removed	0
	75 Chronic relapsing without Suppuration (External) Ap-	
	pendix removed	2
	1 Acute Gangrenous, Drainage, no washing or search for	
	Appendix	1
	13 Acute Gangrenous, Appendix removed	9
	10 Acute with Abscess, Appendix removed, Drainage	2
	24 " " Incision and Drainage, but no search	
	for Appendix	6
	3 Chronic " " Incision, Appendix removed	
	10 " " " no search for Appendix	
	1 Old Appendicitis, Removal of Appendix	
	6 " " Incision Abscess	1
905	21 Acute Gangrenous, Removal of Appendix, Drainage	14
	36 Acute with Abscess, Free incision and Drainage	$\frac{2}{4}$
	21 " " Suppuration, Removal of Appendix	4
	42 " without " " " "	0
	69 Chronic, relapsing or quiescent, Removal of Appendix	0
	2 Appendicectomy for abdominal pain	1

10

	~
	18
	1
	1.2
	12
	1.5
	C C
	-
	5
	4
	C
	-
	1
	0
	5
	-
	- 3
	1
	192
	57
	1.5
	12
	1.5
	- 2
	0
	1
	-
	6
	19(
	190
;	01 0
	191 07
×.	101 000
×.	neo 191
X.	cince 191
EX.	cince 19(
EX.	e cinco 19(
LE X.	ve cince 191
SLE X.	ave cince 191
BLE X.	tore cinco 191
BLE X.	atore cinco 191
ABLE X.	antore cinco 191
ABLE X.	oustore cinco 191
TABLE X.	noustave clare 191
TABLE X.	191
TABLE X.	191
TABLE X.	1 anostare cince 190
TABLE X.	1 aneratore cince 19(
TABLE X.	191 anotatore ince 191
TABLE X.	191 and a store ince 191
TABLE X.	Hund another since 190
TABLE X.	191 and and and and 191
TABLE X.	191 and another of a 191
TABLE X.	191 and another ford 191
TABLE X.	dividual anovatore cince 190
TABLE X.	191 and another charles 191
TABLE X.	191 and anotatore cince 191
TABLE X.	Sadinidual anoustave cince 190
TABLE X.	f indiator on anteres 190
TABLE X.	of individual another inte 190
TABLE X.	of individual anotara 190
TABLE X.	a of individual anotatore cince 190
TABLE X.	191 and and an and an and a start of the
TABLE X.	191 and individual another for a 191
TABLE X.	setting of sufficient on a standay of the standay of the stand and

d interval operations. Showing largest and most favorable statistics of individual operators since 1900, with a lurther list

Sept. 30, '07 German Surgical Congress 1905     1898-06	Korte. Ronx (of Lausaune). Kümmel. Sonnenburg. Arnsperger Leiblein. Eiselberg. St. Luke's Hospital, N. Y. Mass. Genl., Boston. Eastern Me. Genl., Bangor, Me.
Ľ.	 1898–06 Med. Chir. Tr. Lond. LXXXVIII

\* 393 cases with 38 deaths in 1901 not divided in report into acute and chronic. † Verhandlungler des Deutschen Geselschaft für Chiruagie 1905 pp. 24 and 299.

162

#### HAS SURGICAL TREATMENT LESSENED

.

•

#### TABLE XI.

Showing fatality and percentage of cases operated in the U.S. Public Services.

	YEARS.	CASES.	OPERATIONS FOR APPENDICITIS	Died.	TOTAL ALL OPER- ATIONS.
Navy	1901-1907	785	478 (60%)	12 (1.5%)	6,981
Marine Hospital Service	1895–1907	647	295 (45%)	55 (8.5%)	15,964
Army	1898-1906	1,915	57% for years 1905-6	93 (4.8%)	
		3,347	About 50%	160 (4.7%	

Mean Annual 65,000 plus.

Total number of cases of Appendicitis treated in U.S. Naval Hospitals from 1901 to 1907, inclusive.\*

YEAR.	Cases.	Operations for Appendicitis.	Died.	TOTAL OPERATIONS FOR ALL CAUSES.
1901	51	25 (1 died.)	2	345
1902	72	42	3	662
1903	88	38 (1 died.)	2	758
1904	99	67 (1 died.)	3	1,022
1905	141	110	2	1,533
1906	157	93	0	1,502
1907	177	103	0	1,164 (list incomplete.)
	785	478 (60%)	$\frac{12}{(1.5\%)}$	6,981

\*Furnished through the kindness of the Surgeon General.

.

#### TABLE XI -- Continued.

YEAR.	CASES.	Died.	OPERATED FOR APPENDICITIS.	TOTAL OPERATIONS
1895	6	3	4 (2 died.)	998
1897	34	4	0	903
1898	39	5	18 (2 died.)	1,121
1899	29	6	12 (2 died.)	1,110
1900	47	3 -	15 (2 died.)	1,372
1901	50	7	17 (3 died.)	1,385
1902	38	5	0	1,178
1903	48	4 1	43 (5 died.)	1,335
1904	80	8	33 (3 died.)	1,529
1905	72	5	32 (3 died.)	1,564
1906	110	4	58 (1 died.)	1,648
1907	94	1	63	1,821
1900 and after	539	37	261 (48%)	
Before 1900	108	18	34 (31%)	
	647	55 (8.5%)	295 (45%)	15,964

#### ANNUAL REPORT OF PUBLIC HEALTH AND MARINE HOSPITAL SERVICE.

#### REPORTS OF THE SURGEON GENERAL OF THE U.S. ARMY.

1898–1904 1905 1906	$1,394 \\ 230 \\ 291$	71 12 10	120 (9 died.) 183 (8 died.)	3,004 3,189
	1,915	93 (4.8%)		

### TABLE XII.

#### SUMMARY.

.e.	Years. Total Cases.	Percentage Operated.	Percentage Fatality.	UNOPERATED.		
Source.	Years.	Total		Cases.	% Fatality.	
Present Essay.	1870-90.	1,916 (Died, 128.)	Negligible.	6.6	1,919	6.6
Sahli	1890-95.	7,213 (Died, 692.)	6.5	9.7	6,740	8.8
Stricker	1880-00.	6,296 (Died, 207.)	3.7	4.2	6,061	8.3
Stricker	1900-05.	4,498 (Died, 142.)	14	3.1	3,869	1.1
PresentEssay. (Charité, Ber- lin.)	1905-05.	971 (Died, 66.)	31. (Approxi- mately.)	6.7		
PresentEssay.	1890-07.	$34,654 \\ (Died, 2832.)$	85.	8.1		
PresentEssay.	1890-07.	15,003 (Died, 1192.)	Probably more than 70.	7.9	-	
Present Essay. (Public Servi- ces.)		3,347 (Died, 160.)	Over 50.	4.7		







