Annual report on the work of the Ministry of Public Health / Egypt.

Contributors

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ANNUAL REPORT

ON THE WORK OF THE

Ministry of Public Health for the Year 1944



Government Press, Cairo.

GOVERNMENT PUBLICATIONS are on sale at the "Sale Room"
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publications should be addressed to the "PUBLICATIONS
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MINISTRY OF PUBLIC HEALTH

ANNUAL REPORT FOR THE YEAR 1944

Part I.—PUBLIC HEALTH

Chapter I.—VITAL STATISTICS

A .- Population :

The population of Egypt as estimated in mid year 1944 was 17,625,600 inhabitants as against 17,423,300 inhabitants in 1943.

B .- Births :

The number of births registered during 1944 throughout the Egyptian Kingdom was 722,166 or a birth-rate of 41 per thousand of population as compared with 689,771 in 1943. The highest birth-rate of 90.6 per thousand was recorded in Suez Governorate, and the lowest birth-rate of 18.6 per thousand was recorded in Aswan Province.

C .- Deaths :

A total of 472,234 deaths were registered throughout Egypt during the year under review or a death-rate of 26.8 per thousand as compared with 28.3 per thousand in 1943. Suez Governorate recorded the highest death-rate of 78.7 per thousand. The lowest death-rate of 18.6 per thousand was recorded in Girga Province.

D .- Diseases Causing Deaths:

Table No. 4 gives the principal diseases causing deaths in localities having a health bureau, and the death-rate of each disease as compared to total deaths. According to this table, diarrhoea and enteritis figure foremost on the list with diseases of the respiratory system following.

E .- Age and Sex Distribution of Deaths :

Table No. 5 gives the number and rate of deaths of the different age groups in localities having a health bureau. It shows that almost half the deaths occur during the first three years of life.

F.—Infantile Mortality:

A total of 110,020 infantile deaths were recorded during the year or a ratio of 152 per thousand births. 60,235 infantile deaths or 20.2 per hundred births (vide table No. 6) were recorded in localities having a health bu eau. Again diarrhoea and enteritis were mainly responsible for these deaths. Table No. 6 gives infantile deaths distributed according to age in localities having a health bureau.

Table No. 1.—Showing Rates of Births, Deaths and Infantile Mortality in Egypt from 1935 to 1944

				1	Birth per 1000 p	opulation	Death per 1000	-rate population	Infantile per 100	mortality 0 births
		992	1	-	Egypt	Urban Districts	Egypt	Urban Districts	Едурь	Urban Districts
1935		 		 	39-4	42.5	25.1	27.7	166-6	202.5
1936		 		 	41.8	-	27.3	-	164	-
1937		 		 	43.5	46.1	27.2	29.8	165	206
1938		 		 	43-4	45.7	26.4	29.5	163	206
1939		 		 	43.2	46.8	26.0	29-3	161	200
1940	•••	 		 	41.6	45.9	26.5	29.5	162	199
1941		 		 	40.8	44.2	25.9	31.0	150	200
1942		 		 	38.2	44.4	28.7	36.2	168	228
1943		 		 	39.6	49.8	23.3	37.2	160	225
1944		 		 	41.0	54.9	26.8	35.8	152	208

TABLE No. 2.—Showing the Highest and Lowest Birth and Death Rates during 1944 in Governorates, Provinces and Towns having a Health Bureau

	Govte., Prov. or Town having a Health Bureau	Rate per Thousand
Governorate or Province with highest birth-rate Town or Bandar (chief town) with highest birth-rate , lowest ,,	Suez Suez Town Dabaiya	90·6 18·6 94 5 7·8
DEATHS		
Governorate or Province with highest death-rate	S ez Gi ga (¹) Edfa Allaki	78·7 18·6 101·7 9·3
Infantile Mortality		Rate per
Governorate or Province with highest infantile mortality lowest ,, ,, Town or Bandar (chief town) with highest infantile mortality ,, lowest ,, ,, ,, ,, lowest ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,	Suez Governorate Girga Senno ris El Dei (2)	44

The birth-rate for all the population of Egypt was 41 per thousand.

⁽¹⁾ The death-rate in the Red Sea District was 16.9

^(*) The Infantile mortality rate in Faroukia, Belbeis District was 27.

Town: r Bandar egrasents every locality, whether urban or rural, having a health bureau.

Table No. 3.—Showing Disease Distribution of Infantile Mortality in Localities having A Health Bureau during 1944

		I)isease								Number of Deaths	Rate per 000 to Tota Births	Rate per 1000 to Total Invantil Mortality
Wl											200		
Measles										***	262	0.9	4.3
Whooping Cugh		***		***	***					***	32	0.1	0.5
The second secon		***	***	***		***					59	0.2	1.0
Tuberculou Diser		***		***			***				24	0.1	0.4
						***		•••	***	***	165	0.6	2.7
Ri ket and Oste	omalacu		***	***	***	****	***	***	***		180	0.6	3.0
											252	0.8	4.2
					***		***	***			3,705	12.4	61.5
Broncho-Pneumon	1a	***	***	***			***				1,095	3.7	18.2
									***		^47	1.2	5.8
Diarrhoea and En		***				***			***		33,047	112.6	558.6
Congenital Defect		forn	natio	n		***		***	***		137	0.5	2.3
Congenital Debilit											17,881	59.9	296-9
Pemat e Bi h				***		***	***		***		151	0.5	2.5
Consequences of I	Delivery										74	0.2	1.2
Infanticide											114	0.4	1.9
Accidents											122	0.4	2.0
Other Causes .											1,988	6.7	33.0
							To	TAL			60,235	201.6	-

TABLE No. 4.—Showing Diseases causing Deaths in all Localities having a Health Bureau during 1944

ther tuberculous diseases yphilis alaria* ysentery neumonia (acute, chronic and non-chronic, including broncho-pne monia and capillary bronchitis) ronchitis ther respiratory system diseases eart diseases ther diseases ther diseases of the circulatory system iseases of urinary and genital system (other than Venereal) iseases of puerperium and delivery (otherthan puerperal septicemia) iseases of diarrhœa and enteritis nility ccidental deaths including suicides	7,357† 15,040 2,402 4,545 1,454 7,572	37·3 18·0 2 4 1·4 10·8 3·0 37·0 75·7 12·1 22·9 7·3 38·1 4·0 379·1 103·8 3·3 215·8

[†] This figure includes 5,626 deaths from pneumonia (Lobar or Bronchial,

Table No. 5.—Showing the Age and Sex Distribution of Deaths in Localities having a Health Bureau during 1944

									Number o	f Deaths	
								Male	Female	Total	Percentage to Total Deaths
Less than o	ne yea	r		 			 	32,042	28,192	60,234	30.3
1- 2 years				 			 	14,969	15,129	30,098	15.1
2-3 ,,				 			 	7,460	7,912	15,872	7.7
3-4 ,,				 			 	3,475	3,121	6,996	3.5
4-5 ,,				 			 	1,978	1,840	3,818	1.9
5-10 ,,				 			 	3,316	3,055	6,371	3.2
10-15 "				 			 ۸.	2,119	1,500	3,619	1.8
15-20 ,,				 			 	1,944	1,518	3,462	1.7
20-25 ,,				 			 	2,336	1,414	3,750	1.9
25-30 ,,				 			 	2,53	1,759	4,312	2.2
30-35 ,,				 			 	2,445	1,799	4,244	2.1
35-40				 			 	2,703	1,759	4,462	2.2
40-45				 			 	2,617	1,664	4,281	2.2
45-50 ,,			;"	 			 	2,302	1,179	3,541	1.8
50-55 ,,				 			 	3,209	1,893	5,102	2.6
55-60 ,,				 			 	1,812	924	2,736	1.4
60-65 ,,				 			 	3,192	1,975	5,167	2.6
65-70 ,,				 			 	2,633	1,664	4,297	2.2
70-75 ,,				 			 	3,755	2,91	6,746	3.4
75-80 ,,				 			 	1,586	1,436	3,022	1.5
80-85 ,,				 			 	3,091	3,580	6,671	3.4
85-90 ,,				 			 	910	1,085	1,995	1.0
90-95 ,,				 			 	2,005	2,906	4,971	2.5
95 years a	nd upw	ards		 			 	1,327	2,088	3,415	1.7
Unknown				 			 	89	18	107	0.1
					To	TAL	 	105,928	92,861	198,789	_

TABLE NO. 6.—Showing the Age and Sex Distribution of Infantile Mortality in Localities

HAVING A HEALTH BUREAU DURING 1944

,		Ag	to			Male	Female	Total	Death-rate per 100 Births	Death-rate per 100 Deaths
	month				 	 6,579	5,069	11,6:8	3.9	5.9
	months				 	 2,542	2,159	4,701	1.6	2.4
2-3	17	***		***	 	 2,615	2,386	5,001	1.7	2.5
0-3	"				 	 11,736	9,614	21,359	7.1	10.7
3-4	,,				 	 2,781	2,490	5,271	1.8	2.7
4-5	,,				 	 2. 35	2,477	5,112	1.7	2.6
5- 6	",,				 	 2,29	2,093	4,3 7	1.5	2.2
3- 6	,,				 	 7,710	7,000	14,770	4.9	7.4
6- 7	,,				 	 2, 78	2,634	5,512	1.8	2.8
7-8	"				 	 2,269	1,988	4, 57	1.4	2.1
8-9	,,				 	 2.6 6	2,553	5,234	1.8	2.6
6- 9	11				 	 7 823	7,180	15,003	5.0	7.5
9-10	,,		-		 	 1,948	1,739	3,687	1.2	1.9
10-11	,,				 	 1,794	1,660	3,454	1.2	1.7
11-12	"				 	 1, 31	910	1,971	0.7	1.0
9-12	. "				 	 4,773	4,339	9,112	3.1	4.6
		GRANI	To	TAL	 	 32,042	28,193	60,235	20.2	30 3

TABLE NO. 7.—Showing Births, Deaths and Infantice Mortality in Egypt during 1944

	Estimated	Birth	3	Death	18	Infantile M	ortality
	Population mid 1944	Number	Rate	Number	Rate	Number	Rate
Governorates :-							
Urban (Cities only)* Urban and Rural	2,483,100 2,637,000	143,38P 150,228	57·7 57·0	87,361 90,973	35·2 34·5	30,924 31,828	216 212
Lower Egypt :-							
Urban (Bandars only)* Urban and Rural	1,022,500 7,883,300	54,236 326,444	13.0 41.4	33,516 206,799	32·8 26·2	9,595 44,038	177 135
Upper Egypt :							
Urban (Bandars only)* Urban and Rural	925,400 7,105,300	45,833 245,494	49·5 34·6	37,548 174,462	40·6 24·6	10,221 34,154	223 139
Egypt :							
Urban (Cities and Bandars)	4,431,000	243,457	14-9	158,425	35-8	50,740	203
TOTAL (all over Egypt.)	17,625,600	722,166	41.0	472,234	26.8	110,620	152

^{*} Urban comprises all towns having a Health Bureau provided there is a pure drinking water i-stallation and a municipal or local council.

TABLE NO. 8.—BIRTHS AND DEATHS RETURN FOR EGYPT, 1944

	The state of the s		Births	be			Deaths	ths	CENTRAL	Infantile Mortality	Mortality
Governotates and Provinces	Population mid 1944	Egyptians	Poreigners	Total	Rate per 1000 Population	Egyptians	Foreigners	Total	Rate per 1000 Population	Total	Rate per 1000 births
											-
Governorates:-											
Cairo	1,457,400	81,96	825	85,788	58.9	53,015	₹99	53,583	8-93	18.490	916
Alexandria		38,3 9	1,467	39, 46	52.7	21,346	1,131	22,477	29.7	. 8,66	217
Port Said (including suburbe)		4,126	124	4,250	71.0	2,548	84	2,632	43.9	7.0	184
	140,500	7,400	127	7,002	53.8	3,89	177	4,075	28.9	1,456	192
Danietta	46,600	2,365	7 1	2,365	0.06	6,933	900	4,439	77	1,447	283
	20,000	1,016	1	1,016	8-10	4.8		4.8	24.4	151	141
Wastern Desert	33,000	1,4.7	1	1,477	44.8	892	1	892	27.0	2.1	163
	10 700	2 .40	1	2,440	41.8	1,234	1	1,235	21.1	255	105
Towns	0 0	200	0 880	202		- 1	1	181	16.9	9	196
Lower Egypt Provinces :-	, 000, 160, ×	151,038	010.2	922' 661	91.0	88,5 6	2,467	90,973	34.5	98.89	213
Behera	1	44,380	60	44.38	39	26.2.4	174	26 308	99. K	4 798	107
D.kahlia	1,356,000	6 ,957	1-	60,964		35,215	12	35, 27	25.0	8.6.4	142
	2,188,500	966'03	12	91,008	41.6	54,429	15	54,4.4	21.9	11,73	129
		90 29	6,	49,801	39 6	33,515	1	30,55	9.08	8,713	171
	1	50,955	9 04	50.95	41.2	32,424	200	99, 430	56.9	5,641	162
TOTAL	7,883,300	326,417	22	326,444	41.4	206 589	210	206,799	100	44,038	133
opper Egypt Fromnes:-				-		-					1
A W'D		5,655	1	5,656	18.6	9,243	1	9,2.3	30.1	692	135
	1,336,200	99 4 9	1	98,516	36.6	32,957	1	32,957	24.7	6,814	139
	656,300	25,227	1	25, 27	0.07	19.7 6	-	10,787	20.9	2,807	195
Girga	1,265,900	42,667	1	42,667	33.7	23,565	-	21.566	18.6	3.581	191
Gizs	778,400	35,686	107	35,753	46.0	22,635	131	22,766	265	6,012	168
	1,027,400	39,387	1	39,394	33.3	26,628	00	26,636	6.93	6,199	157
	000,701,1	24,398	-	24, 9	22 0		63	26, 95	23.8	2, 51	105
TOTAL	7,105,300	245,371	117	245,494	34.6	174,318	144	171,462	24.6	34, 154	139
GRAND TOTAL	17,625,600	719,452	2,114	322,166	0 17	469,413	2,821	412,234	8.9%	110,020	152
			COMMUNICATION OF THE PERSON OF	-	Contract of the local	The second second	THE PERSON NAMED IN	-	The second name of		The second name of

TABLE NO. 9.—BIRTHS AND DEATHS RETURN FOR GOVERNORATES AND CHIEF TOWNS OF PROVINCES FOR 1944

Table Tabl		Estimated		Birthe				Dea	Deaths		Infantile	Infantile Mortality	Percei	Percentage of Infantil:	fantil .
Propulation	Governorates and Chief Towns of Provinces	mid year	Egyptians	Foreigners	Total		Egyptiane	Foreignera	Total	Rate 1000	Under	1-9 vears	Under o	ne year	1-9 vears
1,4,5,400 84,963 825 85,786 58,915 568 55,586 36,98 36,48 36,47 36,48 36,47 36,48 36,47 36,48				-	- 1					Population	one year		Births	Deaths	Deaths
1,4° 5,400 24,663 20,546 50,70 50,015 50,00 50,015 50,00 50,015 50,00 50,015 50,00 50,00 50,015 50,00 50,00 50,00 50,00 50,00 50,0015 50,00 50,0015 50															
National Colored National Co								-							
Day		1,4-5,400	-	825	85,788	6.89	53,015	268	53,583	34.8	18,720	16,952		34.4	31.6
March Marc		. 7. 5,700		1,46	30,546	52.7	21,3 6	1,181	22,477	29-7	8,661	5, 85		38.5	25.7
Total			3,266	121	3,390	85.3	2, 44	81	2,128	2-19	684	610		32.1	2:-7
TOTAL		132,200	7,099	123	7,222	9.19	3,771	10	3,941	8-67	1,401	1,243	- 6	35.5	9.1:
Total Signor 1, 67			2,365	-0-	2,365	00 10	971		971	20.8	34	208		35.8	21.4
TOTAL 2, 480, 800	: :: ::		4.0 %		4,633		3,73		4,237	80.3	1,39	1,528		:3.0	3 .0
National Colored Col	::		140.7.4	1	143,31,	23	11,818		87,337	100	30,511	26,126	1	1000	23 9
National Colored Col	Loner Equal:														-
The color of the	p -1	-	-		-										
Total Tota			1,60	-	1,691	51.2	1,028	1	1,029	31.2	263	297	9.91	25.6	28.9
Total Tota		70,700	3,585	- 1	3,9.6	26.4	2,253	-	2,254	31.9	763	754	19.1	83.8	33.5
Total 1,784 1,785 20.6 1,271 36.7 431 383 24.1 33.9 384 38.9	T	78,800	3,9 6		3,953	2.00	2,10%	10	2,118	56.9	647	574	7-91	30.	27.1
Total 3:00 2,923 1 2,924 45.3 2,056 2,294 31.9 10 18.7 29.9 28.9 21.9 28.9 24.4 21.7 2,65 21.9 2.8 21.9 2.8 21.9 21.9 21.9 21.7 2.9 21.7 2.9 2.9 21.9 2.9 21.9 21.9 21.9 21.9 21	Wom	30,300	1,784	-	1,785	9.00	1,271	1	1,271	36.0	431	383	24.1	33.0	30.1
Total 3:0,000 2,650 1 2,924 45.2 2,289 5 2,294 3:1 1.8 5 0.0 1 5.0 0.0 2,520 1 2,924 1 1.3 1.4 48.1 2,228 5 1 1,35			4,941	d, t	4,914	47.1	3,275	2	3,277	31 - 2	923	910	18.7	2	27.8
Total Total 3:00,000 20,011 15 20 24 45 3 12,224 15 12,243 31 4 3 645 3.768 18 2 21 8 8 8 8 1 1,224 3 1 1,835	: : : : : :	1	3,666	-	3.667	21.2	2,289	9	2,294	84-1	0.18	850	16.9	56.9	3 .1
64,500 2,923 1 2,924 45.3 2,056 — 2,756 31.9 590 479 20.2 28-7 21,700 2,520 — 2,659 — 2,756 31.9 59.9 479 20.2 28-7 49,400 2,520 — 2,520 — 2,657 — 2,657 30.9 881 746 27.6 <td></td> <td></td> <td>20.0.1</td> <td>15</td> <td>28 626</td> <td>51.3</td> <td>30</td> <td>61 .</td> <td>14,243</td> <td>100</td> <td></td> <td>3,768</td> <td>1000</td> <td></td> <td>30 8</td>			20.0.1	15	28 626	51.3	30	61 .	14,243	100		3,768	1000		30 8
64,500 2,923 1 2,924 45·3 2,056 — 2,156 31·9 59 4°9 20·2 28·4 21,700 809 1 810 8°2 659 — 2,156 3°4 161 197 199 24·4 80 2,520 — 2,520 — 2,520 — 2,667 — 2,233 40·7 6.29 881 27.0	Upper Equat:-									100000					
ef			2 993	1	9 994	45.9	9 0 6		9 0 6	91.0	500	470		- 00	6.00
ef			800	-	810	6. 8	629	1	655	20,00	161	197	10.0	P. P6	0.77
<td> je</td> <td></td> <td>2,520</td> <td>1</td> <td>2,520</td> <td>0.19</td> <td>1.83</td> <td>1</td> <td>1.835</td> <td>1.7.1</td> <td>5.0</td> <td>598</td> <td>21.5</td> <td>2.6</td> <td>2.5.6</td>	je		2,520	1	2,520	0.19	1.83	1	1.835	1.7.1	5.0	598	21.5	2.6	2.5.6
Grand Total Grand Total 3.266,000 4,081 103 4,184 64.2 2,779 21 2,800 42.9 965 994 23.1 34.5 1,500 2,637 4 2,641 48.1 2,228 5 2,233 40.7 603 597 27.0 1,500 1,611 - 1,611 43.5 1,83 - 1,35 49.6 508 30.8 1,500 1,61 - 1,61 43.5 1,10 1 1,161 2.5 39.6 29.9 21.9 1,504 - 1,506 - 1,70 1 1,161 2.5 39.6 29.9 21.9 34.1 1,83 - 1,70 1 1,161 2.5 39.6 29.9 21.9 34.1 1,83 - 1,70 1 1,161 2.5 39.6 4.398 21.9 1,83 - 1,70 1 1,161 2.5 39.6 4.398 23.6 1,83 - 1,83 1,83 2,80 1,161 38.6 4.635 4.398 23.4 1 1,83 1,83 1,83 2,80 1,161 2.5 </td <td> w</td> <td></td> <td>3,174</td> <td>1</td> <td>3,14</td> <td>7.12</td> <td>2,667</td> <td>1</td> <td>2.667</td> <td>89.9</td> <td>881</td> <td>746</td> <td>27.7</td> <td>33.0</td> <td>28.0</td>	w		3,174	1	3,14	7.12	2,667	1	2.667	89.9	881	746	27.7	33.0	28.0
CRAND TOTAL 3.266,000 2.657 4 2,641 48·1 2,228 5 2,233 40·7 603 597 :2.8 27·0 1,500 1,611 - 1,611 43·5 1,83 - 1,35 49·6 508 30·8 1,506 - 1,611 43·5 1,83 - 1,161 :2·5 39·6 27·0 1,506 - 1,611 1,10 1 1,161 :2·5 39·6 29·9 21·9 31·1 1,506 - 1,506 - 1,611 1 1 1 1 1 1,506 - 1,611 1 1 1 1 1 1 39·6 29·9 21·9 31·1 1,506 - 1,611 1 1 1 1 1 1 1 1 1 1,506 1,506 19/10 1 1 1 1 1 1 30·6 2 2 30·6 30·6 30·6 30·6 30·6 30·6 30·6 30·6 30·6 30·6 30·6 30·6 30·6 30·6 30·6 30·6 30·6 30·6 30·6		. 65,200	4,081	103	4,184	64.5	2,779	21	2,800	42.9	962	994	23.1	34.5	37.5
		2 ,900	2,637	4	2,641	48.1	2,228	2	2,233	40.7	603	269		27.0	26.7
		37,000	1,61	1	1,611	43.2	1,83	1	1,35	9.67	496	208		27.0	27.7
3,266,000 180,326 2,630 183,016 56.0 112,3.0 2,5.0 114,826 35.2 39,191 34,252 21.4 34		. 35, 00	1,806	1	1,506	9.09	1,10	1	1,161	:2.2	396	299		34.1	95 8
3,266,000 180,326 2,650 183,016 56.0 112,3.0 2,5.0 114,826 35 2 39,191 34,252 21 4 34	:		19,571	109	19,180		15,218	288	15,216		4.635	4,398			30 752
	:		180,326	2,690	183,016	0	112,3.0		114,826		39, 191	34,252			80.9

Chapter II.—INFECTIOUS DISEASES

Incidence of Infectious Diseases.

Table No. 14 —gives the number of cases and deaths recorded in the Governorates and Provinces during 1.43 and 1944.

Typhus:

The following table is a statement of Typhus cases and deaths during the five years ending 1944:

TARLE No. 10

	3	Zear		Number of Cases	Case Rate per 100,000 of Population	Number of Deaths	Death Rate per 100,000 of Population	Case-Mortality Rate per cent
1940	 		 	 4,416	26	863	5.1	19.5
1941	 		 	 9,414	56	1,751	10.4	18-6
1942	 		 	 22,054	128	4,411	25.8	20.0
1943	 		 	 40,188	230	8,272	47.4	20.5
1944	 		 	 18,477	104.8	4,043	22.9	21.8

It appears from the abo e that the number of typhus cases this year was 21,711 cases less than the previous year, thanks to the effective precautionary measures taken on a sarge scale against this disease, amongst which are the extensive delousing operations carried out in many parts of the country.

Regional Distribution of Typhus Cases:

Table No. 17 gives a comparative statement of typhus cases during the past ten years distributed according to governorates and provinces. It shows that typhus cases were recorded in Cairo and all the other provinces but were, on the whole, fewer than in the previous year.

Four-Weekly Distribution of typhus Cases:

Table No. 16 gives the four-weekly distribution of typhus cases compared with corresponding periods as far back as 1935. It shows that the upward curve of the disease began during the first 4 weeks of the year with 965 cases and gradually mounted until its peak of 3,325 cases was reached during the period ending the 20th week, after which the disease began its downward curve until the lowest number of 163 cases was recorded during the 44th week. A new upward curve began thereafter with 180 cases during the period ending the 48th week and 729 cases during the last four weeks of the year.

Typhus Cases and Déaths:

A total of 18,477 cases of typhus were reported during the year or a ratio of 1,049 per million of population as compared with 40,188 cases and a ratio of 2,304 per million of population in 1943.

Table No. 15 gives the number of typhus cases and deaths during the years 1905-1944 together with their ratio per million of population and case mortality rates per cent.

Plague:

The total number of cases of plague notified during the year was 644. The following is a statement of the disease during the past four years.

TABLE No. 11

-		Bubonie		1	Septicomi	io	1	Pneumoni	io		Total	
Year	Cases	Deaths	C.M.R.	Cases	Deaths	C.M.R.	Cases	Deaths	C.M.R.	C.	D.	C.M.R
1941	14	6	% 42.9	-	. –	%	-	-	%	14	6	% 42·9
1942	7	3	42.9	3	3	100	4	4	100	15	10	66.5
1943	149	95	63.7	14	14	100	-	-	-	163	119	66.8
1944	638	387	60.6	6	6	100	_	_	_	644	393	61.0

Regional Distribution of Cases:

The disease was prevalent this year in Ismailia, Suez and Port-Said. It was severer in the first with 409 cases which occurred between March and July. 1/3 cases were recorded in Suez between January and November, and 72 cases in Port-Said between April and November.

The following table No. 12 gives the monthly distribution of these cases.

Month	Ism	ailia	Su	ez	Po. t-	Said	To	tal
atonth	Bub.	Sep.	Rub.	Sep.	Bub.	Sep.	Bub.	Sep.
January	-	-	80	2	-	-	80	
February	-	-	24	-	-	-	24	-
March	44	-	10	-	-		54	-
April	139	-	22	-	4	-	165	-
Мау	183	2	15	-	8	-	206	
June	38	1	5	-	20	-	63	
July	4	1	-	-	20	-	24	
August	-	-	-	_	12	-	12	-
September	-	-	-	-	2	-	2	-
October	-	-	3	-	2	-	5	-
November	-	-	2	-	1	-	3	-
December	-	-	-	-	-	-	-	-
TOTAL	408*	4	161	2	69†	_	638	6

^{*} Three of these were traced in Upper Egypt and all were fatal.

Anti-Plague Vaccination:

Most of the vaccination against plague was carried out in Ismailia, Suez and Port-Said: 12,000 being vaccinated in the first, 20,098 in the second and 8,073 in the third. Certain precautions y vaccinations were carried out in localities in Gharbia, Dakahlia, Sharkia, Behera, Giza, Beni-Suef, Fayoum, Assiut, Girga, Qena, Alexandria and quarantine units.

[†] Excluding 3 cases proceeded to Upper Egypt where all died.

Deratization:

The stationary posts set up in 1941 for deratization of river craft continued their activities in preventing the escape of rats from the ports to the interior of the country. These are situated at:

- (1) Mouth of Ismailia Canal at Shoubra.
- (2) Mouths of Tewfiki, Menoufi and Beheri Rayyahs at Barrage.
- (3) Mouth of Ibrahimia and Bahr Yousfi Canals.
- (4) Walidia near Assiut town.

In 1942, posts were also provided at: Deirut town, Ather-el-Nabi Nile bank, Ismailia Canal-lock, and Mahmoudia. During the year, 71,102 rivercraft were provided with traps which caught 140,319 live and 8,682 dead rats, not including rats caught by rat gangs in towns and villages. To these posts may be attributed the disappearance of plague from the interior of the country. Investigations into the six cases of plague discovered in Assiut, Girga, Qena, all fatal, proved that they came from the infected ports.

Typhoid and Para-typhoid:

A total of 5,019 cases and 790 deaths were notified during the year throughout the country, giving a case-rate of 28.5 and a death-rate of 4.5 per 100,000 of population and a case-mortality-rate of 15.7 %; as compared with 4,430 cases and 790 deaths or 25.4 and 4.5 per 100,000 of population and a case mortality-rate of 17.8 % in 1943. There was a marked increase in the incidence of the disease in Cairo and Alexandria, and a slight increase in Behera, Kaliubia, Sharkia, Aswan, Assiut, Beni-Suef, Gîza, and Minia. In I mailia, Port-Said, Damietta, Suez, Dakahlia, Frontiers Districts, Gharbia, Menoufia, Fayoum, Girga and Qena, the incidence was less than in the previous year.

Small-Pox:

A total of 11,194 cases of small-pox were recorded during the year. These affected all parts of the country in varying degrees, but were evident in Cairo, Gharbia, Alexandria, Dakahlia, Port-Said, Sharkia and scarce in Aswan, Frontiers Districts, Damietta, Beni-Suef and Ismailia. There were 1,016 deaths from small-pox making a case-mortality-rate of 9 % The disease reached its peak in March since when it began to subside until a total of 140 cases and 18 deaths were reported during the last quarter.

Anti Small-Pox Vaccination: (Table No. 20).

As the whole country was more or less affected by the disease, a general vaccination of the whole population was carried out. A total of 3,370,715 persons were vaccinated during the year. Vaccination was carried out all the year round and in certain localities was continued during the following year.

Cerebro-Spinal Meningitis:

147 cases with 75 deaths were notified during the year giving a case-rate of 0.83 and a death-rate of 0.43 per 100,000 of population and a case-mortality-rate of 51% as compared with 114 cases and 57 deaths in the previous year or a case-rate of 0.65 and a death-rate of 0.32 per 100,000 of population and a case-mortality-rate of 50%. Most of the cases were reported from Cairo and Alexandria.

Diphtheria:

Some 3,326 cases with 1,264 deaths were reported during the year or a case-rate of 18.9 and a death-rate of 7.2 per 100,000 of population and a case-mortality-rate of 38% as against 4,143 cases with 1,595 deaths in the previous year and a case-rate of 23.8 and a death-rate of 9.1 per 100,000 of population and a case-mortality-rate of 38.4 %. As compared with 1943, the incidence this year was less in Cairo, Alexandria, Port-Said, Dakahlia, Menoufia, Kaliubia, Aswan, Beni-Suef and Girga; and more in Ismailia, Damuetta, Suez, Frontiers Districts, Behera, Gharbia, Sharkia, Assiut, Fayoum, Giza, Minia and Qena.

Diphtheria Anatoxin Immunization: (Table No. 22).

A total of 136,305 children between one and ten years of age received the three anatoxin injections for immunization against diphtheria. 219 of these contracted diphtheria after their immunization; 42 of which were reported in Cairo, 175 in Alexandria and two n Damietta.

Measles:

7,274 cases with 2,475 deaths were notified during the year or a case-rate of 41.3 and a death-rate of 14 per 100,000 of population and a case-mortality-rate of 34% as against 4,249 cases with 1,022 deaths during the preceding year or a case-rate of 24.4 and a death-rate of 5.9 per 100,000 of population and a case-mortality-rate of 24%. As compared with last year, the incidence of measles was more in Cairo, Ismailia, Port Said, Suez, Frontiers Districts, Behera, Gh rbia, Menoufia, Kaliubia, Sharkia, Aswan, Fayoum, Giza, Minia and Qena.

Influenza:

A total of 11,203 cases of Influenza with 204 deaths were recorded during the year giving a case-rate of 63.6 and a death-rate of 1.15 per 100,000 of population and a case mortality-rate of 1.8% as compared with 14,056 cases and 219 deaths in 1943 or a case-rate of 80.6 and a death-rate of 1.3 per 100,000 of population and a case-mortality-rate of 1.5%.

Pneumonia:

6,929 cases with 5,242 deaths were reported this year or a case-rate of 39.3 and a death-rate of 29.7 per 100,000 of population and a case-mortality-rate of 75.6% as compared with 6,935 cases and 5,762 deaths in the previous year or a case-rate of 39.8 and a death-rate of 33 per 100,000 of population and a case-mortality-rate of 83%.

Fever Hospitals:

During the year under review, there were 20 built up isolation hospitals, 15 shelters and 28 cordons consisting of tents. The total number of patients admitted to the fever hospitals was 65,609 (36,975 males and 28,634 females). 57,922 of these (32, 117 males and 25,805 females) were discharged as cured and 5,631 (3,388 males and 2,243 females) died in hospital.

Pilgrims:

The total number of Egyptian pilgrims who proceeded to the Hedjaz this year was 9,924. The number of returning pilgrims who passed through Tor lazaret was 10,254. Eight Egyptian pilgrims died in the Hedjaz.

TABLE No. 13 Showing cases and Deaths from Infectious Diseases reported during the last 4 Years and the Case-Mortality-Rates

-		1941			1942			1943			1944	
Discase	Cases	Deaths	Rate per cent	Cases	Deaths	Rate per cent	Cases	Deaths	Rate per cent	Cases	Deaths	Rate per cent
Plague	14	6	42.9	15	10	86-1	163	119	66.8	644	393	61.0
Typhus	9,414	1,751	18-6	22,054	4,411	20.0	10,188	8,272	20-5	18,477	4,013	21.8
Typhoid and Paratyphoid	5,758	1,179	20.5	6,814	1,257	18.4	4,430	790	17.8	5,019	790	15.7
Scarlet Fever	91	_	-	39	2	5:1	54	3	5.1	30	-	_
Cerebro-Špinal Men	159	94	59 · 1	212	101	47.6	114	57	50.0	147	75	51.0
Diphtheria	4,037	1,931	17-8	3,950	1,882	47.6	4,143	1,595	38 - 4	3,326	1,264	38.0
Measles	9,769	2,864	29-3	9,764	3,654	37.4	4,249	1,022	24.(7,274	2,475	34.0
T.B. of Lungs	6,206	3,026	18:0	6,608	3,472	52.5	6,770	3,647	53.8	6,950	3,803	54.7
TB. of other organs	84	501	-	157	525	-	104	544	-	25	464	-
Chicken-pox	1,862	15	0.8	870	8	0.9	1,238	21	1.0	1,057	15	1.4
Puerperal Infaction	461	344	74 6	332	208	62 . 7	375	187	19 ₺	357	15	4.2
Dysentery	3,44	508	14-7	3,5 3	577	16:2	1,873	604	32 2	1,672	537	32.1
Influenza	11,120	178	1.6	12,965	218	1.7	14,050	219	1.5	11,203	204	1.8
Anthrax	22	5	22.7	21	4	19.0	15	9	60:0	13	2	15.3
Enceph. Letha	7	9	-	6	5	83.3	4	3	75-6	1	1	10.0
Whooping Cough	2,923	173	5.9	2,27	142	6.5	2,054	105	5.1	1,208	105	8.6
Mumps	1,755	19	1.1	1,453	30	2.1	1,449	3.	2.1	1,063	30	2.8
Undulant Fever	20	-	-	9	2	22-2	6	4	66.6	20	3	15.0
Leprosy	511	79	15.1	520	82	15.8	393	68	17.3	224	58	25.8
Rabies	30	34	-	4	43	97.7	17	. 19	-	11	21	-
Tetanus	433	314	72-1	459	313	68::	442	294	66 5	544	331	60.8
Acute Polio My li is	16	9	56-2	5	1	20.0	- 7	2	28:5	11	4	36-3
Dengue	-	-	-	-	-	-	2	-	-	1	-	-
Erysipelas	4,502	465	10.3	3,100	312	10.1	1,956	209	10.€	1,671	156	9.3
Malaria	9,320	104	1.	30,937	394	1.6	6,530	1,341	8.1	37,847	1,867	4.9
Rel. Mala ia	-	-	-	-	-	-	-	-	-	218,231	14	0.006
Jaundice	3	2	66.6	- 1	-	-	2	1	50.0	-	-	-
Small-pox	-	-	-	-	-	-1	4,138	384	9.2	11,194	1,016	9.0
Relapsing Fever	-	-	-	-	-	-	-	-	-	10	-	-
Acute Lb. Pneumania	5,414	4,842	89 · 4	6,215	5,296	85.2	6,935	5,762	83·f	6,929	5,242	75.6
Glanders	-	-	-	-	-	-	-	-	-	-	-	-
				-		_						
TOTAL	17,468	18,452	53.8	102,360	22,949	22.4	111,708	25,284	22.6	335,391	23,071	6.8

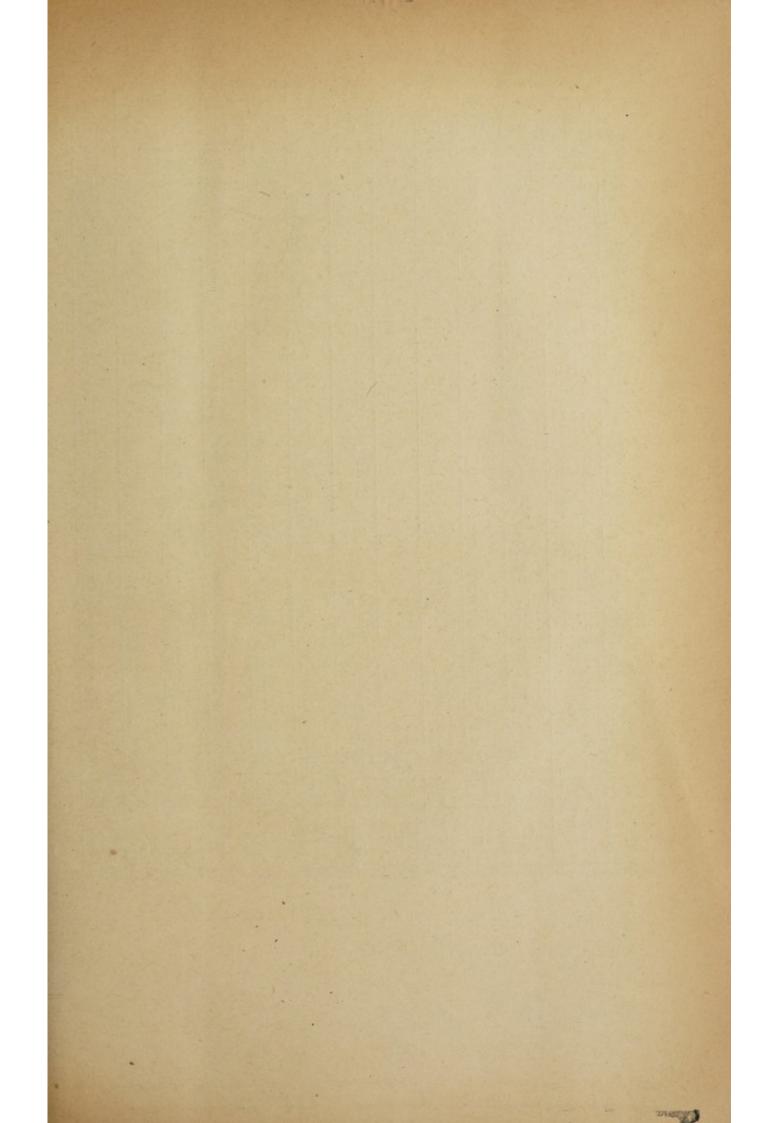


TABLE No. 14-Showing Infectious Diseases Cases and Deaths distributed

Covernorate or		Sma:1	Pox	Plag	trie	Тур	hus	Typh	noid	Ceret-ro- Menin		D phi	berla
Mudirseh	Year	С.	D.	C.	D.	С.	D.	О.	D.	c.	D.	О.	D.
Dairo {	1943	1,193	96	_	_	8,751	1,912	2,227	405	48	14	2,131	593
)	1944	2,285	129	-	-	1,758	418	2,753	371	91	30	1,416	13
Alexandria {	1943	111	15 164	_		1,473	388 108	844 9 3	132 140	27	16 24	493 419	13
	1943	20	3	_	_	311	115	3	2]	-	10	_
Ismailia	1944	180	15	4(9	243	53	40	35	9	-	-	11	
Port-Said	1943	46 79	69	72	3	26	2:	332	29 22	9	2	75 31	1
	1944	- 13	- 03		31	8	1	2.9	22		2	01	1330
Damietta	1944	65	9		-	0	1	5			-	21	1
Suez	1943	4	1	56	106	1,14	256	10	2.	1	1	3!	2
Ducz)	1944	247	31	163	113	9	42	71	22	-1)	4:	2
Front. Dis.	1943 1944	92	- 5		_	22	3	3 31	5	1	7	. 12	
0.1	1943	2	1	_	-	3,94	731	.70	17	1	i	127	6
Behera	1944	290	30	_	-	1,580	317	79	14	3	2	163	7
Dakahlia	1943	1]	-	-	3,00	57	3		5	4	187	10
	1944	841	7			72- 4,400	1,00	2.	9	1	- 4	151 281	16
Gharbia	1944	1,640	131			2,94	60	50	17	1	1	29	14
Menoufia	1943	24	1	_	_	3,160	611	5	11	1	2	1:0	. 8
menouna	1944	4 6	33	-	-	1,96	43	5	1	1	-	: 2	6
Kaliubia	1943	9 456	36	-	-	1,655	30 173	65	17 18	3	2	119	5
1	1943	22	2	_	_	3,78	(9	3.	14	- :		9:	5
Sharkia	1944	733	42	1	_	3,20	53	4)	1	-	1	9	4
Aswan	1343	16	1	-	_	(45)	6		2	1	-	3:	1
aswan	1944	16	2	-	-	440	120	7	3	-	-	2-	1
Assiut	1943 1944	1,100	127 42	_	- 2	1,3.1	19 25	140	25 31	2	- 1	6: 74	4 3
	1943	230	2			7.5	13	4:	4	4	4	61	4
Beni Suef	1944	94	12	-	-	4:0	129	63	14	-	-	2	1
Fayoum	1943	4	4	-	-	22	6	36	5	-	1	37	2
	1944 1943	270 17.	34 25			1,20	257	28 43	14 13	2	3	49	2 2
Girga	1944	21	41	_	2	762	16:	35	12		_	1	
Giza	1943	326	31	-	_	3,680	689	128	23	-	-	130	9
#1Z3	1944	431	33	-	-	1,163	225	200	42	2	1	135	7
Minia }	1943 1944	397	55	=	-	14: 423	46 136	47 62	14	1	1	58 63	4 3
	1943	170	11			1,111	256	27	5	_ '	_ 1	26	1
Qens }	1944	62	27	-	2	281	90	26	10	-	-	32	1
TOTAL }	1913	4,138	384	163		40.188	8,272	4,430	790	114	57	4.143	1 59
1	1944	11,194	1,016	614	393	.8,477	4,643	5,019	790	147	75	3,326	1,26
Rate per	1943	237	22	9.:	6-2	2,304	474	254	45	6.5	3.2	23	9
dillion	1944	635	57	3.6		1,(48	229	281	44	8.3	4.2	188	7

ACCORDING TO GOVERNORATES AND PROVINCES FOR 1943 AND 1944

Med	aslee	T.B. o	f Lungs	Acute L	ob. Pneu	Influ	nza	M	alaria	Rel. 1	fa ari		her Inf.	T	OTAL
Carried States	1	-	1	-		-	1-		1		-	-	T	-	1
C.	D.	0.	p.	C.	D.	C.	D.	O.	D.	Ç.	D.	0.	D.	O.	D.
1	1									1000			707	10000	
271	133	3,330	1,688	3,192	2,79	2,220	21	57	30		-	2,55	7 808	00 .00	5 .00
1,336		0 000 000				1,777	1000		22		-	1, 4			
576	129							1 000		-	-	1,93	9 302	14,395	3,696
325	45	1,421	671	2,062				45			=	1,30			
20	20		.000								1=	5			
14	1	159	67	94	33	246	-	149	1	-	-	172	30	1,563	210
56		223 53		46 10				94			-	191			355
3 2		65		2				8		=	-	103			
17	5	25	55	89	55	701	15	471	39	-	-	162			
58	30	A 757 To 1	92	125		The state of the s	5	200		14	-	152		1,622	525
372	-	9 5	5 2	131	_ 5	109	9	286 361	_ 1		_	158		854 1,515	
564	79		179	111	142	395	10		3		1	394		6,436	
895	301	. 240	154	219	193		6	1000000	2	11	30	405	83	4,650	1,174
414	87		13 148	90	63	749 313	15			- 2	-	356			
325 505	116		195	106	232	849	10	1 177 5-20	4	- 2	_	570 743			716 1,904
524	121	375	19	169	20	708	10	102	2	. 27	-	550			1,540
220	16		43	9	3	540	6	47	1	-	-	512		4,816	889
809 167	167 22	62 64	37 37	2) 79	25 28	414 645	14	25 1,395	2		1	334		4,192 4,624	854 515
4 1	101	146	9	68	41	649	12	889	2	_	I	2.0		3,810	
197	28	143	74	34	42	423	3	619	3	-	-	215	47	5,571	971
202	63 15	144	91	49	39	557 -42	8	489 3,653	55	58	-	199 96		5,728	879
311	27	15	13	75	3	302	19			28,872	-	90		4,400 31,412	668 638
348	136	161	103	216	132	806	41	152	2	-	+	1,112	115	4,801	912
267	133	164	100	138	73	638		26,39	6	10,570	-	557		40,516	770
101	14 19	47 57	48	134	24 26	734 402	28	75 66	3		=	179 183		2,344 1,487	369 286
17	-	136	64	82	33	7	1	793	1	_	-	208	28	1,454	170
185	41	192	59	67	39	58	2	418	6	95	-	188	35	1,561	261
398 98	195	19 38	25 23	87 67	53 28	418 145	18	214	6	18,047	-	239 100		2,732 20,763	655
36	51 6	112	120	44	69	413	5	96	2		_	188		5,154	387
486	265	220	122	143	91	315	7	121	-	-	-	199	62	3,418	925
26	23	73	44	80	63	148	8	95	1	-	-	204	49	1,200	301
307	76	135	57 38	110 75	51	429 301	11	105 5,461	660	_	=	277 249	50 41	2,309 7,511	1,090
158	107	78	50	152	68	339	13	3,93	1,332	60525	11	280	76	165,871	185
219	1 055	6 770	3 641	6.935		14,056			1 341	_			3,066	111.701	25,266
,274	2,475	6,950	3,803	6,929	5,2:2	11,:03	01	37,847	1,861	218231	14	8,150	1,885	335,391	23,071
244	59	398	209	398	330		13	948	77	-	-	572	118	6,405	1,449
412	140	391	215	393	297	635	11	2,147	105	12,384	0.7	462	106	19,033	1,309
1		Participal in	-	E 10 10 10 10	-		16	00000		1	11/4 2	The said			-

TABLE No. 15-Cases and Deaths from Typhus, Rate fer 1,000,000 and Case-Morfality-Rate in Egypt from 1905-1914.

Year	No. of Cases	Rate per 1,000,000	No. of Deaths	Rate per 1,000,000	Case Mortality Rate per cent	Year	No. of Cases	Rate per 1,000,000	No. of Deaths	Rate per 1,000,000	Case Moriality Rate per cent
1905	2,478	226	1,111	101	44.8	1925	1,314	94	290	21	22.1
1906	1,668	150	938	84	56.2	1926	966	68	201	14	20.8
1907	1,063	94	836	74	78.6	1927	794	56	189	13	23.8
1908	2,926	255	1,153	101	39.4	1928	599	41	138	9	23.0
1909	3,782	326	1,608	139	42.5	1929	1,141	78	214	15	18.8
1910	2,908	248	1,210	103	41.6	1930	288	19	74	5	25.7
1911	5,151	433	1,702	143	33.0	1931	265	18	57	4	21.5
1912	5,382	447	1,658	138	30.8	1932	2,298	153	399	26	17.5
1913	4,936	405	1,438	118	29.1	1933	7,865	515	1,332	87	16.9
1914	9,508	771	2,533	205	26.6	1934	7,536	488	1,418	92	18.8
1915	17,096	1,368	4,216	337	24.7	1935	3,151	- 202	516	34	16.7
1916	30,507	2,412	7,096	561	23.3	1936	2,757	174	389	25	14.1
1917	18,569	1,451	4,174	326	22.5	1937	2,083	130	311	19	14.9
1918	25,246	1,952	7,354	568	29.1	1938	2,811	173	405	25	14:4
1919	16,986	299	5,573	426	32.8	1939	4,296	260	788	48	18.3
1920	13,253	1,002	3,510	265	26.5	1940	4,416	263	863	51	19.5
1921	4,487	335	1,271	95	28.3	1941	9,414	558	1,751	104	18.6
1922	2,489	184	723	53	29.0	1942	22,054	1,289	4,411	258	20.0
1923	1,985	142	603	44	31 .2	1943	40,188	2,304	8,2 2	473	20 5
1924	1,683	122	588	42	34 9	1944	18,477	1,049	4,043	2.9	21.8

TABLE No. 16.—FOUR-WEEKLY DISTRIBUTION OF TYPHUS CASES FROM 1935—1944

Weeks	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944
1-4	143	185	109	60	76	186	416	1,236	2,094	965
5-8	585	388	195	182	334	531	855	2,331	3,293	2,163
9-12	561	461	157	285	804	980	1,739	3,145	4,730	2,910
13-16	694	592	259	491	876	966	1,898	4,469	7,383	3,0(2
17-20	573	427	675	726	908	777	1,796	4,623	9,408	3,325
21-24	270	350	385	506	631	407	1,211	2,689	6,123	2,524
25-28	143	242	164	203	345	250	425	1,337	3,834	1,461
29-32	53	41	63	103	133	102	234	527	1,758	561
33-36	31	12	35	70	46	68	92	190	591	329
37-40	17	9	8	19	16	26	20	142	221	165
41-44	6	10	10	8	13	22	31	152	275	163
45-48	24	15	10	9	11	29	235	291	114	180
49-52	51	25	13	49	103	72	462	922	347	729
						Service .				
								00.054	40.151	.0
TOTAL	3,151	2,757	2,083	2,811	4,296	4,416	9,414	22,054	40,171	18,477

TABLE No. 17.—Typhus Cases and Deaths from 1934-1944 and THE LAST FOUR YEARS DISTRIBUTED ACCORDING TO

	1934	1	1915	1	1936		1937		1 38		1939	-
Governorate or Modiriek	Cases	Ď.	Cases	Ď.	Cases	D.	Cases	D	Cases	D.	Cases	D.
Cairo	48	9	37	9	70	24	103	35	128	37	209	43
Alexandria	36	16	73	22	. 14	7	87	17	43	11	60	11
Front. Adm	. 18	1	15	3	45	- 3	15	1	51	_	3	2
Port-Said	10	2	8	-	4	1	6	-	1	-	8	_
Suez	-	_	1	1	2	-	4	-	_	_	4	-
Ismailia	-	_	-	-	_	-	2	-	-	-	-	_
Damietta	46	4	_	-	_	-	2	2	1	-	1	1
Kaliubia	30	11	26	2	37	5	39	8	124	15	260	44
Sharkia	292	77	160	46	125	25	44	20	86	19	002	41
Menoufia	1,383	263	342	80	126	20	147	22	354	43	5:9	110
Gharbia	1,966	371	1,027	124	862	93	590	44	316	47	1,195	224
Dakahlia	859	191	222	40	312	58	362	61	2,274	46	76-	121
Behera	2,716	443	1,008	147	867	91	423	61	574	61	318	69
Giza	4	2	70	13	103	36	18	7	168	25	183	38
Beni-Suef	-	-	14	2	nn	-	10	1	-	-	28	3
Fayoum	3	2	2	-	6	-	4	1	2	-	12	2
Minia	3	_	17	2	8	1	36	3	48	4	5	1
Assiut	39	14	23	7	34	4	38	1	54	5	19	18
Girga	27	3	13	2	16	4	34	8	102	16	242	43
Qena	49	9	8	6	90	15	77	1	323	41	206	15
Aswan	7	-	85	20	36	2	43	7	162	35	3	2
TOTAL	7,536	141.8	2 151	590	9 753	200	9 000	-	9 011	400	4 000	-
101AL	1,536	141,0	3,151	3.26	2,757	389	2,093	311	2,811	405	4,297	788

RATE PER MILLION OF POPULATION FOR GOVERNORA ES AND PROVINCES.

19-4)		- 19	041		1	1942 Ra'e per					943		1944			
Cases	D.	Cares	D,	Rate 1,000,0 Popula	On of	Casos	D	Ra'e 1,000.0 Populs	NO of	Cases	D.	Rate 1,000,0 Popula	10 Of	Cases	D.	Popul	ooo of
	-	-	-		_		-		-	400	-					C.	D.
364	58	168	34	12	2	2,244	554	158	39	8,751	1912	610	133	1,758	418	121	23.7
117	28	170	47	23	6	521	151	71	21	1,473	388	198	52	413	108	51 6	14 2
5	1	91	8	77	7	113	18	95	15	225	3	188	2,5	63	1	52 0	0.9
21	-	24		18	-	68	7	50	5	260	23	135	12	89	9	63 1	6 3
2	1	4	. 2	7	4	91	28	165	51	1,148	256	2,083	465	99	42	176	74.4
- 2	-	_	-	-		85	31	145	F 3	311	115	536	168	53	45	88-4	75.1
-	-	_	-	_	-	6	6	13	13	. 14	11	31	24	5	1	* 10 7	2.1
15	4	250	43	29	7	363	110	55	17	1,655	305	250	46	713	173	105 6	25.9
74	21	688	135	58	11	1,477	274	123	23	3,785	697	311	57	:209	538	260	43 5
680	121	678	102	55	8	2,367	426	191	34	3,166	612	. 254	49	1,968	431	156	34 .2
924	151	2,152	366	102	12	4,978	870	232	41	4,400	1007	203	47	2,944	605	135	27.7
699	145	1,763	370	134	28	4,069	708	307	53	3,004	575	225	43	724	220	53 7	16 3
816	187	1,835	384	163	34	2,788	628	244	55	3,948	731	348	63	1,580	317	135	27-1
228	35	350	6.1	- 47	8	1,481	296	195	39	3,680	689	4 1	90	1163	229	150	26.4
105	29	911	137	151	22	411	72	67	12	725	130	117	21	470	129	75 1	20.6
18	2	5	1	8	2	8	1	1	0.1	22	6	3.3	0.9	9	7	1.3	1 0
3	-	5	1	1	0 2	55	14	5	1	144	46	14	4.5	423	136	41.2	13 2
74	16	171	35	13	3	356	76	27	6	. 700	191	53	14	1,311	255	98.2	19.1
140	42	109	14	9	1	351	73	28	6	1,208	257	96	20	762	169	60 4	13 3
38	5	28	8	3		165	54	15	5	1,118	256	100	23	281	90	24.9	7.6
91	17	2	1	0.6	0 7 0 3	63	14	20	4	451	62	139	19	440	120	141	38.3
411,6	863	9,414	175	55	10	2,206	4411	128	26	40,188	8252	230	47	18,477	4043	104 8	55 9

TABLE NO. 18.—BLOOD SAMPLES IN 1944 FOR WEIL FELIX REACTION

Governorate	No. of Samp	des sent :	to Labs.	No	. Positiv	re .	No	. Negati	ve	N	o. Spoile	d
Or Mudirieh	From Alive	From Dead	Total	From Alive	From Dead	Total	From Alive	From Dead	Total	From Alive	From Dead	Total
, 1									-			
Cairo	271	109	380	67	49	116	20	43	247	_	17	17
A exandria	906	-	906	310	-	310		-	506	-	-	-
Suez	44	319	759	2	22	43	415	297	712	4	-	4
Damietta	1	13		-	-	-	1	13	- 14	-	-	-
Canal	355	-	355	157	-	157	198	-	198	-	-	-
Fr. Adm.	445	16		114	-	114			3(9	40	5	42
Gharbia	2,990	1,97:	4,962	1,410		1,5 6		1,39:	2,74	210	394	594
Dak blia	719	1,181	1,900		158	: 68		8.8	1,3	3	152	186
Sharkia	1,935	1,085		100,000,000	166	.609	1,06	45	1,51	:28	445	773
Behera	1,742	386		661	20	681	95	24	1,192	129	126	2 5
Menoufia	2,302	1,582	3,884	1,090	350	1,440		871	1,7	310	360	670
K diubiaf	2,22	341	2,502	1,102	83	1,100		16	1,014	235	85	320
Giza	584	495		69	73	142	452	373	825	85		85
Beni-Sue	337	340	677	2	2	25				9	55	64
Hayoum	141	135			3	4	139			-01	46	46
A	311	323	634	193	148	341	97	131	228	21	57	78
14.		534 277	2,450	408	23	431	1,184		1,567	334	140	474
Qena	1,04	211	2,057	644 178	21	665 178		174	1,290	134 29	85	219 29
	1,931	292		4 7		5 2	The second			317	130	
Aswan	1,501	202	2,223	41	55	0.2	1,136	10	1 238	311	100	447
	-		-			-				-	-	-
Tr. m.	9) 200	0 400		~		0.020	.0 000		10 710	0.000	2 004	
T(T L	23,370	9,400	31,770	1,617	1,415	9,032	12,61	5, 87	18,548	2,239	4,394	4,363

TABLE No 19-Showing No. VACCINATED AGAINST PLAGUE IN 1944

						No. of V	accinated		No. of	Cases		No.
Gover	norate	10	Mudir	neh				After la	st inject.	After 2n	d inject.	of contacts
						One injection	Two injections	Cared	Died	Cured	Died	observed
						-						7/3
												1 1 1 1 1 1 1
Cairo						_	_	_	_		_	
Alexandria						1,253	_	-	_	_	_	_
								-	-	-	-	-
Ca al	***	***				-	20,07	-	-	-	-	-
Suez			***			20,098	doub e dose	-	-	-	-	-
Frontiers .	Adm		***	***	***	-	3:0	-	-	-	-	- 0
Gharbia		***				-	100	-	-	-	-	-
D ka lia	•••	***	***	***			84			-	-	-
Sha ka Behera	***	***	***	***	***	73	485	-	-	-	-	-
Menoufia	***	***	***	***		3	25	-	-	-	-	-
Kiliubia	***	***	***	•••	***	The State of		HOUSE OF	-	-	-	
Giza	***		***		***	19				-	-	-
Beni-Suef	***	***	***	***	***	76	76		-		1500	1
Fayoum		***	***	***		_ 10	23		_		-	
dinia		***									7	-
Assiut						6	358					1000
Girga						251	473	_	_			100
Qena						30	52		_			- Tuest
Aswan						_		_		_		and the same
		N.					Service Inc.			War and		
		Тот	AL			21,809	22,073			_		200

TABLE No. 20.—Showing No. VACCINATED AGAINST SMALL-POX IN 1944

Districts	Population in 1937	Beginning of vaccination	End of vaccination	No. of vaccinated
Alexandria	685,736	16-1-1943	29-2-1941	918,034
Damietta	93,918	13-2-1944	20-5 1944	116,043
Sharkia	1,120,826	1-1-1944	1-5-1944	939,665
Fayoum	602,122	7-1-1944	24 6-1944	1,397,073
Тотац	2,5 2 602	_	_	3,370,715

TABLE No. 21.—Showing Inoculation against Typhoid in 1944

Governorate	No. in scul	lated once		No. inseul	lated twice		No. of
or Mudirieh	By Health Officers	By Private Doctors	Total	3y Health Officers	By Private Doctors	Total	contacts observed
Cairo	108,434 106,665 83 — 3,91 286 219 742 334 153 442 781 217 199 958 1,540 439 190 57	2,159 - 2,159 12 15 169 31 14 - 331	108,434 108,824 83 — 3,917 298 234 991 365 163 442 781 231 199 1,289 1,450 439 190 57	93,826 55,460 579 285 4,570 5,466 2,255 1,151 848 1,389 2,053 970 1,831 864 204 3,855 2,486 1,033 387 115	1,821 248 - 70 77 105 50 - 158 - 295 25 - 547 48 376	93,826 57,281 827 285 4,640 5,543 2,361 1,201 848 1,547 2,053 970 2,126 889 204 4,402 2,534 1,409 387 115	.418 simple thigh temper
TOTAL	225,666	2,731	228,397	179,627	3,521	183,448	

TABLE No. 22.—Anatoxin Inoculation against Diphtheria in 1944

Governorate		No incoulated		No of cases	
or Mudirieh	One injection	Two injections	Taree Injections	observed after the 3rd inoc.	Complications
Cairo Alexandria Suez Damiet a	41,613 39	32,772 52 381	44,799 18,663 2,441 988	42 175 —	=
Canal Front. Adm	161	241 7,173	4,151 7,274	-	87 Simple high temp and some local inflam
Gharbia Dakahlia Sharkia	3,959 342 2,487	3,074 316 2,441	7,261 4,679 3,122	=	=
Behera Menoufia Kaliubia	635 1,231 537	298 1,321 562	2,734 6,738 2,651	=	=
Giza Beni-Suef Fayoum	2,392 2,401 2,259	2,360 2,078 2,240	3,488 2,069 4,419	=	=
Minia Assiut	3,666	138 3,537 386	4,394 4,045 1,906	=	=
Qena	51	50 7,097	2,025 8,458	Ξ	-
TOTAL	70,350	66,517	136,305	- 219	_

TABLE No. 23 .- FEVER HOSPITALS STATISTICS FOR 1941.

Name of the		Admitted			Cured		1	mproved			Died	
Fever Hospital	Male	Female	Total	Male	Female	Tota!	Male	Female	Total	Male	Female	Total
										-		
Alexandria	75,10	6 389	13,890	6,400	5,95	12,41	529	130	659	581	333	914
Abbassia	5.60	6.915		4,99	6.548	14 ,527	_	_		652	443	1,095
Port-Said	1,432	5 5	2,36	1,619	461	2,140	80	25	105	103	51	154
Saez	2,074	1,115	3,119	1,200	6-2	1,872	410	217	62	201	103	304
D mietta	394	148	542	:51	119	41	18	9	2	28	22	5.0
Damarhour	733	510	1,243	658	421	1,079		_	-	69	78	117
Mansura	1,199	530	1,725	1,927	465	1,5 6	-	-	-	61	58	122
Mit Ghamr	710	752	1,462	650	67	1,32	-	-	-	60	75	135
Tanta	2,828	1,7 8	4,616	2,(25	7.1	4,336	-	-	-	231	127	358
Zifta	6.0	360	1,010	600	330	930	-	-	-	43	30	73
Fakous	940	7 9	1,729	793	63	1,480		-	-	135	97	232
Shebin El Kom	1,36	1,17	2,735	1,171	1,05:	2,224	16	13	29	1:4	97	261
Zagazig	2,296	1,713	4,005	2,166	1,500	3,669	-	-	-	120	185	305
Beni-Suef	1,066	733	1,759	913	6.4	1,567	32	9	41	107	61	168
Minia	1,085		1,917	961	755	1,716	-	-	-	118	79	197
Assiut	. 981	604	1,585	809	570	1,439	13	5	18	102	42	144
Suhag	571	289		510	261	771	3	1	4	67	32	99
Qena	298	157	455	238	125	363	17	6	23	43	23	66
Luxor	389	143	5 2	368	126	100000000000000000000000000000000000000	-	-	-	25	11	36
Imb-ba	4,457	3,143	7,600	3,799	2,69	6,495	108	83	191	475	296	771
			-			-			_	- 51	_	- 30 0
TOTAL	36,975	28,634	65,609	32,117	25,805	57,922	1,225	498	1,724	3,388	2,243	5,631

No. of Hospitals 20. - Fever Hospital, Alexandria, included.

No. of V. Shelters 15.

No. of Cordons 28.

TABLE No. 24 - VACCINATION AGAINST TYPHUS 1044

	N/	. Inoculat	ed			No. 0	f Cases			
Governorate or Madirieh				After I	st Inj.	After 2	nd Inj.	After 3	Brd Inj.	Comp li cation
	Once	Twice	Three time.	Cured	Died	Cored	Died	Cured	Died	Cation
			121111		12311	MALE			7 7 7 3	100
lairo			1,2996		600		-			
l xand ia	4,693	1,496	9,172	2	2	3		2	1	
u z	161	,,	,323	-	_	_	-		1	
am. tta	5	1	112		-		_	_	-	_
anal	132	26	1, 96	_	-	_	-	-	-	-
ontiers A m	1,66	,228	1,36	-	-	-	-	-	_	_
harb a	2, 2	1,88	5,1(8		-	1	-	-	1	-
k hla	1.7	162	,489	66	-	65	-	65	-	-
b k	7,419	74,256	74,56	23	2	1	-	172	15	-
h a	,065	517	1, 71	15	-	2	1	-	1	-
o fia	3, 7	1, 38	2,5 5	2	-	-	W-1	2	-	60
Lubia	36	4	175	-	-		-	-	-	-
Zii	,6 7	6 2	731		-	-	-	-	-	-
n Suei	2		805		1	-	T	-		-
y um	7 3	119	5	-	-	-	-	-	100	-
ut	7,039	795	7.47	-		-				
	58	6.8	,4 7	_	1	_				
	28	25	12							
*****	6, 3	5,715	5,8	24	10	23		10		
wan	3, 0	,,,,	0,100			-		-		1386
many and my many			-	-		-	-		-	-
TOTAL	117 69	103 799	129,673	312	33	94	1	251	17	60
10140	144,00	100,100	200,000	014	00	0.4	100	~01		03

TABLE No. 25-Medico Legal Statement for 1944

Locality	Fatal	cases	Seriou	s Cases	Slight	Cases
Locality	Crimical	Accidental	Criminal	Accidental	Criminal	Accidenta
Cairo	3	5	205	103	33,754	2,167
Alexandria	_	_	200	7,691	4,719	900
Canal	23	789	172	745	1,477	1,254
Suaz	151	132	18	9	1,896	312
Damietta	9	28	3	7	766	134
F ontiers Administ	28	54	52	81	171	434
Behera	133	217	442	621	3,464	1,413
Sharkia	154	233	209	295	2,811	1,417
Dakahlia	325	464	857	442	4,955	1,593
Gharbia	287	497	375	278	7,315	2,743
Kaliubia	99	273	285	201	1,270	834
Meno fia	192	218	426	254	2,955	1,025
Assiut	246	267	344	221	3,194	1,632
Aswan	14	26	21	21	274	216
Beni-Suef	46	134	192	171	2,326	702
Fayoum	77	136	151	178	1,320	397
Girga	189	333	228	281	3,533	714
Giza	79	108	192	54	1,700	627
Q na	63	154	157	52	2,053	253
Minia	178	151	236	216	3,632	612
TOTAL	2,296	4,219	4,765	11,921	83,585	19,379

Chapter III - INDUSTRIAL HYGIENE

Unhealthy, Inconvenient and Dangerous Establishments.

1 .- Applications for New Permits :

The number of applications for new permits for unhealthy establishments of the first class received during the year 1944 was 250, as compared with 216 in 1943. Applications for new permits for Establishments in Dakahlia, Gharbia, Behera, Menoufia and Damietta Governorate are excluded as these are being dealt with by the Depa tment of Labour.

2.—Licensed Establi hments actually wo king:

The total number of unhealthy establi hments of the three classes licensed and actually working in Provinces and Governorates (excluding Establi hments in Alexandria) was 8,434 in 1944.

3.—Ministerial Arrêtés:

Three Ministerial Arrêtés were issued during the year 1944 for the improvement of the sanitary conditions of establishments, as against 27 in 1943.

A Ministerial Arrêté was also is ued on January 24, 1944 for the transfer of some establishments from classes II and III to I ss I and the amend en of the tale of some other establishments.

Table No. 26 -Census of Unhealthy, Inconvenient and Dangerous Establishments for 1944

Governoiste or Province	Sec. I	Sec. II	Sec. III	Total
Cairo	2,516	11,831	4,319	18,166
Damietta	269	1,3(1	395	1,965
Canal	217	1,322	435	1,974
Suez	1(6	622	241	969
Ciliubia	166	2,859	378	3,403
denoufia	161	4,710	559	5.432
h rbia	836	6,996	1,178	9,010
) k hlia	531	4,369	708	5,658
Behera	429	3,668	486	4,583
Sharka	240	197	299	2 516
liza	150	3,217	437	3 80
ayoum	111	2,175	292	2,878
Beni-Suef	88)	1 834	267	2.981
linia	220	3 5 6	515	4 281
ssiut	219	4,116	526	4,8 1
lirga	79	2,542	417	3,038
Qena	1,111	2,111	285	3,5)7
iswan	52	1,273	133	1,458
			_	
TOTAL	8 345	60,260	11,870	80,48

Chapter IV .- FOOD CONTROL

STATISTICS SHOWING WORK DONE BY FOOD CONTROL GANGS IN CUSTOMS HOUSES DURING 1944

TABLE No. 27

A .- Consignments examined and Results of Samples taken therefrom:-

No. of	No. of Samples	1	Results of Analysis	
Consignments examined	taken *	Genuine	Unfit	Adulterated
8,630	401	241	147	13

Import d Foodstuff's condemned or refused entry into the Country

kind of Foods	Kilos	Cans or Bettles	Boxes	Sacks
1.— Fresh Foods :-				
Vege atles	7,119	_	_	
Fruits	1,394,055	_	318	
Meat	9.	_	_	
2.— Canned Foods:-				
J ms and Dried Fruits	18,814	1,033	1,254	
Mi k and its Products	87	3,529	-,202	
Meat	13,:11	156	304	
Figh	10,165	96,350	2	900
Veget bles and sauce	357	348	37	_
3.— O.ls:—				
Olive oil	824	15		
Pent (il	-	1	-	_
4.— F.our :-				
Four	8.665			. 12,965
Flor Products	12,(55	_	1,101	- 12,000
Sweets and chocolate	2(0	66	_	_
Butter	21	-	_	
Meeli	9,070	48	_	-
M rga ine nd Fat	410	-	-	_
Tea	16,450	-	313	-
Coffee	202,897	- ~	342	
Wine	-	244	-	- 535
Seecs and Corn	242.609	1,800	1.050	-
Note and Alexande	242.009		1,053	-
O. L. co	10,366			79
5,— Other Foods	32,660	4,082	4	. 000
	-			1,028
TCTAL	1,9 0,300	(8, 2	4,63%	15,.07

Table No. 28 —Showing No. of samples of Milk taken during 1944 and Result of their analysis.

		Result of A	nalysis	
No. of samples	Genuine	Adulterated by removal of fat	Adulterated by addition of water	Adulterated by both
12,375	11,356	891	403	15

TABLE No. 29.-VARIOUS STATISTICS 19 4

P.V. drawn up under article II of Law No. 41 of 1941	No. of P.V. drawn up against Itinerant Vendors	No. of P.V. drawn up against Milk Vendurs	Bandars to which the itinerant ven- dors regulations was applied	Bandars to which the milk vendors regulations was applied	No. of itinerant vendors licensed during 1944	No. of milk vendors licensed during 1946
2,133	8,790	3,133	9	9	563	297

Table No. 30.—Showing Quantities of Foodstures condemned, Number of Samples taken and Results of their Analysis during 1944.

(This List does not include the F gures for Cairo and Alexandria Genericales and the Food Control Squads at the Ports)

Percentage	Unitness	1		1111	1		111111000	14.04 1-1 2. 4 13
Perce	Adulteration			1111	1		20.5	13 6:8 18:6 6.6 7.6
	Not analysed Adulteration			1111	1		111111	1111111
	Unfit			1111	1		1111 44	18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Samples taken	Adulterated			1111	1		1 11 11	14 98 13 6, 6, 6
	Genuine			1111	1		47574 6	858 478 770 48
	Number of Samples			1111	1		4070	121 676 527 70 89 89 40 91
	Okes			47,476 30 066 217 1,540	1,742		342 1,193 113 642 94	22388212
ped	Rettle (lb)			18.362 1,072 1.320 1,102	1,737		235 70 265 3 980 67	171 131 133 123 123
Foodstuffs Condemned	Cans			31 -	1		942 3,388 196 8,5.4	1111111
Food	Bottles			111	1		225 2.9 49 — — 15	1111111
	Number			25,215 1,.21 2 18,766	17,350		1,449	PETTITE
Name of Article			1 Fresh Foods:-	Fruits and Vegetables	2 Cooked Foods	4 Canned Foods:-	Jams Milk and its Products Fruits and Vegetables Keat Fish Other Canned Foods	4.— 048:— Olive Oil

	1.5	1	1	1	1	1	5.1	1	0.3	7.3	6.6	-	-	1	1.25	-	26.4	1.2	!!	1		1	1.0		-1
	23	51-5	3.8	00	8.1	6-6	6.11	1	9.4	1.8	1.3	0.11	1.7	2.6	2.5	3.3	4-1	7.7		20	1	4.5	4.5		- 1
	1	1	1	1	1	1	-	1	1	1	1	-	1	1	1	1	1	1	1	1	1	1	1		
	23	1	1	1	1	1	133	-	61	2.15	51	-	1	1	1	62	221	2	- 1	1	1	1	1		179
	879	84	7	1	1,019	69	160	1	. 52	-61	1-	1	6	106	22	223	36	11	1	1	1	30	31		2,208
	1,243	1,180	174	53	11,356	9.9	2,323	45	867	2,995	277.9	8,913	520	4.255	18	628	619	145	44	4	11	634	665		39,241
	1,645	1,264	181	3.5	12,375	6.5	2,65	45	921	3,:(1	335	8,914	529	4,:61	06	652	193	1.5	44	0	11	199	169		42 156
	512	6655	1,096	1	1	22	10	17	913	243	2-1	122	0	9	2	20	1	1,281	8	1,6.8	772	1	737		92,018
	1	212	819	14	1	24	14	1	1.5	30	55	09	1	1	23	1	1	1	218	1	87	93	1,560		28,174
	1	168	657	1	1	1	11	1	1	1	1	13	-	1	1	1		742	-	1	14	1			14,341
	1	1	185	1	1	1	1	1	1 .	1	1	1	+	1	1	1	1	1/2.	2,(42	1	1	1	41		2,938
	1	10 741	6 007	24	-	19	1	40	42	1	1	1	ſ	-	1	98	8,6.3	:78	650	1	1	1	3 443	The state of the s	154,594
4	:	:			:					:			:	:		:		***	:	:	:	:	:		i
To .	:		:		:				:	:	***		:	:	:	***	**	:	:	;	***	:	***		!
	:	:				:	:	:			:			i	:	:		:	**	:	;	;	:		GRAND TOTAL
1	:	1	OIST	:	:	:	:			:		:		:	:		:	80	TIDES	**	etc.	:	:		o To
spoo	:	CTS	Choc		:		:		:	:	:	Billia	:	:	:		ter	Jonb	ic D	оппо	nds,	:	8		BANI
THE P	:	room	nun	:		Mil	:		:	::	ne ne	Tal	:	:	:	::	Wa	10 17	опо	bus	rlmo	:	Vind		G
ifer	Flour	ur r	oweets and Chocolates	gar.	K.	Cardied	Butter	Cream	Cheese	Mash	margarine	Jawa	res	Сопее	Cocos	Vinegar	Aerated Water	Alcoholic Liquors	Non-alcoholic Drinks	Seeds and Corns	Nuts Almonds, etc.	Spices	Other Kinds		
(e) Different Poods:-	Flour	DIG.	B.C	ng	THE CO	50	Bu	58	5:	Me	MA	H	Te	30	36		A	P:	N	Se	4	gb	5		

Part II.—SOCIAL HYGIENE

Chapter V.-MATERNITY AND CHILD WELFARE

The chief concern of the Ministry is in reducing infantile mortality. Hence great interest is taken by the Ministry to ameliorate the addition. Of the measures taken, the following may be cited.-

- 1. Providing more Maternity and Child Welfare Centres until there is a centre for every 15,000 of the population. There were 63 centres in service during this year.
- 2. Raising the educational standard of midwives and exercising more control over their work.
- 3. Graduation of the maximum number of assistant midwives and health visitors at schools annexed to M. C.W. Centres. 140 assistants graduated this year.
 - 4. Care of foundlings. The number of foundlings this year was 288.

Added to the above, is the care of stray children who lost their parents through air raids or other catastrophes or whose parents are unfit to look after them, e.g. mentally deficient. There were 48 of these children during the year.

Where diseases are hereditary or transmissible through society, e.g. syphilis and tuber-culosis, both deadly to the youth of the nation and cause the withering of body and mind and produce manifold afflictions such as paralysis, the child welfare units have succeeded in reducing the mortality rate of syph lis from 16 to 3 per cent.

A total of 9,347 hereditary syphilis and 88,675 skin diseases cases were treated by maternity and child welfare units during the year. 45,622 blood specimens were taken for Wassermann test. 1,418 children completed the course of treatment for syphilis.

A total of 83,210 deliveries were attended by personnel of the C.W. units and 1,52 deliveries were referred to hospitals.

It is hoped that when M. & C. W. units are provided at the rate of a unit for every 15,000 of the population, the present figures will appear but trifles. There are 4,852,300 inhabitants served and 189,940 deliveries attended annually by the M. & C.W. units.

The procedure of providing beds in M. & C. W. Units for the accommodation of pregnants who get the pains of labour while in the unit, or who are destitute or come from distant places and require care during and after delivery or whose homes are insanitary, has been extended to more welfare units.

The following table is a brief statement of the activities of the M. & C.W. units during 1944.

Table No. 31.—Gives Details of the Work carried out by the Child Welfare Centres in Egypt during 1944

Cases		Number
Old Pregnants		369,519
New Pregnants		95,962
Blood specimens taken for Wassermann Reaction		45,622
Positive for Wassermann Reaction		2,774
Children attending Centres		1,354,967
Children vaccinated against Small-Pox		24,817
Children immunized against Diphtheria		20,624
Confinements undertaken by midwives		16,662
" " assistant midwives		66,282
medical officers		266
,, from outside (not registered) otal confinements		7,313
'otal confinements		83,210
Expectant mothers removed to hospitals		1,527
Premature still births		322
still births within first 3 months of pregnancy		108
" " second 3 months of pregnancy		214
faternal mortality due to child birth		107
Full term still births		961
nfantile mortality within first month of life		708
Medical officer visits to sick puerperals		1,741
Midwife visits to pregnants during 9th month		45,135
" " puerperal mothers		491,567
Athen minite		31,579
Visits to homes of pregnants by health visitors		19,598
infants by health visitors		65,691
,, ,, ,, infants by health visitors		191
Cases of Eclampsia	***	56
" Laceration of perineum		73
" Placentitis		2
", Puerperal sepsis		
Jrine samples		440,051
ost Parturition Albuminuria	***	5,904
Diabetic before delivery		5,263
ectures delivered by medical officers		6,038
" " " midwives		10,147
filk contributions to mother and baby		25,100
Sarments contributed		6,517
loth material contributed		12,972

FOUNDLINGS HOMES

The following is a statement of Cai o Fou	ındli	ngs !	Hom	e du	ring	the	year.
1. Admitted during the year 1944							440
Remaining from previous year							410
							850
2. Died during the year						192	
Handed over to their mothers		,,,		,,,		57	
Removed to other homes	***					68	
Adopted						48	
						-	- 365 -
3. Remaining on December 31, 1944							485
With wet nurses							423
N w Units opened during the year were	as	follo	ows:				
(1) A school for Assistant Midwives at Sh	ebin	el :	Kom	Bar	ndar		
(2) A Day Nursery at Sayeda Zeinab.							
(3) A Child Welfare Centre at Abbassia.							
(4) ,, ,, at Kafr el Da	awar						
(5) ,, ,, at Sherbin.							

Maternity and Child Welfare units celebrated the Coronation Day and H.R.H. Princess Ferial's Birthday. Fairs were held within the centres during which various gifts were presented to poor mothers and children and prizes awarded to infants with best health.

Chapter VI .- CHEST DISEASES

Statistical Data:

According to latest official records, there were 48,016 tuberculous patients at the end of 1943. A further 6,608 positive cases were recorded in dispensaries during 1944, making a total of 54,624 cases at the end of the year.

During 1944, the following units were opened:-

- 1. Port Said dispensary with a 20-bed in-patient section opened on March 1, 1944
- A 20-bed in-patient section within Damanhour dispensary, opened on March 25 1944.
- 3. A branch of Shebin el Kom dispensary annexed to Benha Government Hospital in May 1944. Work is carried out in this branch once a week.
- Giza village sanatorium (opened on March 27, 1944) with an accommodation of 300 beds, now accommodating 150 patients.
- The preventorium in Mehalla el Kobra was transferred back to its original premises in Alexandria in August 1944.

The Chest Diseases Units now comprise:-

16 dispensaries, 3 in Cairo:

- (a) Mobtadayan.
- (b) Khalifa.
- (c) Boulac.
- 9 in Lower Egypt at Tanta, Mansoura, Zagazig, Damanhour, Mehalla el Kobra, Shebin el Kom, Alexandria, Port Said, Damietta.
- 4 in Upper Egypt at Fayoum, Minia, Assiut, Qena.
- 4 chest diseases branches at:
 - (1) Menouf, branch of Shebin el Kom dispensary.
 - (2) Benha, branch of Shebin el Kom dispensary.
 - (3) Samallout, branch of Minia dispensary,
 - (4) Luxor, branch of Qena dispensary.
- 8 in-patient Sections at Tanta, Zagazig, Mansoura, Port Said, Damietta, Damanhour, Fayoum, Assiut. Total number of beds is 180.
- 3 Sanatoria (Helwan, Abbassia, Giza) with a total number of 1,100. beds
- 2 Institutions for surgical tuberculosis (Helwan, Alexandria), 180 beds.
- 4 Preventoria at Zeitoun, Marg, Alexandria and Assiut, accommodating 240 children.
- 1 Settlement at Marg for Convalescents, can hold 100 families and now accommodating 21 convalescents.

Of 104,807 new patients examined during the year, 6,608 were returned positive or tuberculosis, of which 251 were children, the remaining 6,357 were adults.

Of 7,409 contacts (3,168 children and 4,241 adults) examined, 230 developed tuberculosis.

Health visitors paid tuberculous patients 20,242 home visits; the Medical Officers paid 5,391 home visits.

Appended to this report are detailed statistical data of the work carried out by the various dispensaries and other institutions.

Therapeutic and Social Activities:

Treatment and Social Activities proceeded according to original plans referred to in previous reports. During the year, however, sanction of the financial authorities was obtained regarding the following:—

- 1. Transport expenses of poor convalescents and their families from their places of residence to Marg settlement will be borne by the State.
- 2. Poor patients who live more than 120 kilometers from the nearest treatment centre will be removed to sanatoria in-patient sections, to complete their treatment at the expense of the State.

Subsidiaries:

A sum of L.E. 5,000 was granted this year which, together with other funds cont-buted by some of the Municipal and Provincial Councils, were distributed among dispensary tuberculosis patients. About 1,000 families benefited by these grants, the total amount distributed being L.E. 6,530.

In commemoration of the happy escape of His Majesty the King from the Kassasseen motor accident, a sum of L.E. 1,000 was approved by the Council of Ministers for distribution among chest diseases patients. A sum of L.E. 50 was allotted to each dispensary for distribution among its destitute patients.

It was observed that destitute patients who live a long way from the dispensery or its branches do not attend to receive their allotments of provisions as the expenses they incurred in coming were almost equal to the cost of what they got. It was therefore decided to issue country patients living more than 10 kilometers from the dispensary dried provisions once a month, money being paid instead of such fresh provisions as will quickly deteriorate, e.g. meat, vegetables and bread.

Marg Settlement for Convalescents:

Reference was made in last year's report to the circumstances attending the creation of this settlement which happens to be the first of its kind in Egypt - and the object of its creation. Herebelow are some details about the settlement:—

- 1. The settlement consists of 120 houses in which 21 convalescents and their families numbering 47 are now accommodated.
- 2. Seven workshops have been set up in a building within the settlement which once served as a village school. These are:—
 - (a) A carpentry shop employing 4 convalescents.
 - (b) A tailor's shop employing 4 convalescents and 4 ex-patients appointed on the establishment of the Section.
 - (c) A shoe-making shop employing 5 convalescents.
 - (d) A soldering shop having 1 convalescent.
 - (e) A broom-making shop having one convalescent.
 - (f) A palm thatching shop employing 2 convalescents.
 - (g) Agricultural Labourers comprising 4 convalescents.
 - 3. During 1944, the following works were carried out by the various workshops:
 - The carpentry shop manufactured all furniture required by the settlement and other chest diseases units.
 - The tailor's shop.—All tailoring required by the chest diseases units and such other units of the Ministry of Public Health as are forwarded by Central Stores.
 - The shoe-making shop made all sandals and slippers required by the chest diseases units.
 - The soldering shop.—A large number of spittoons for the various units was made by this shop which, in addition, carried out all repairs required in the settlement and other units.

The broom-making shop two shops is to train convalescents in professions which the palm thatching shop suit them best.

In November 1944, a Committee was convened to organise the settlement and simplify procedure. Recommendations regarding clerical work, accountancy, stores, orders and wages for convalescents have since been carried out.

The following are the professions of positive patients met with in the various dispensaries during 1944:—

- 384 tradesmen: consisting of 116 foodstuff sellers, 40 poultry and cattle merchants, 69 grocers, 49 fruiterers, 110 other trades.
- 539 employees: including 267 civil servants, 115 commercial employees, 45 teachers, 112 other employees.
- 1,995 craftsmen: consisting of 44 cooks, 61 waiters, 126 barmen, 35 domestic servants, 45 servants (farrashes), 28 gate-keepers, 107 barbers, 69 laundrymen, 85 drivers, 118 tailors, 90 shoemakers, 112 carpenters, 57 painters, 120 building wo kmen, 125 employees in firms, 114 weavers' 204 mechanics, 31 painters and 424 other occupations.
- 1,227 farmers.
 - 153 pupils.
- 2,310 unemployed, including:

1,811 invalids,

303 children,

198 unemployed.

6,608

The following is a list of the different forms of treatment followed in the dispensaries and the results thereof:—

TABLE No. 32

	DOMICILIARY TREAT	MENT			ARTIFICIAL PNEUMOTHORAX
	THE PARTY OF THE P		Number	4.00 00 0000	Number
CONDITION ON 18T EXAMINATION IN DISPENSARY	Tuberculous patients Sputum Positive Negative		6,123 4,459 1,664		No. of patie its treated with A.P. 1494 No. of 1st. Inductions 431 No. of Refills 19,804 (Positive 1,247
CORDO 18T EXA IN DISI	Lesion Unilateral Bilateral Gavitary Last Spu- Positive		2,086 4 037 2,896 4,316	CONDITION BEFORE TREATMENT	Spu't m Negative 247 Unilateral 1,247 Esica Bilateral 247
TREATMENT	Increase of weight Decrease of weight		1,807 2,021 1,455	Condition	Cavitary 804 Haem ptysis 195 Unilateral A.P ,,, 1,282
RESULT OF TREA	Stati nary Died Unable to work		1,790 857 2,336		Bilateral A.P 111 Extrapleural A.P 10 Continued refills 1,084
RE	Walking Light work		1,644 1,032 354	STOPPED A.P. & CAUSE	Adhesions 110 Bilateralisation 89 Effusion 98
			002	7	Sputum still positive 679 Sputum still negative 200 Sputum returned negative 531
				RESULT OF TREATMENT.	Sputum returned positive 84 Increase of weight 816 Decrease of weight 270
				RESULT OF	Stationary 305 Died 103 Incapable of work 297
					Walking
					149

Table No 33 - Statistics of Patients in Sanatoria and in-Sections of Dispensables (Mansoura Zagazig, Damanhour, Port Said, Assiut and Fayoum, in 1941

					Helwan	Abbassia	Giza	Dispen- saries
present on Ja	nuary 1st. 1944	£			480	461	_	130
					1,129	791	340	509
					1.122	788	229	436
	Positive				820	57	169	357
cpu um	Negative				302	217		79
	Unilateral			***	100000			314
Lein	Bilateral				The state of the s			122
								212
Tempe atu e		·i. ·				20000		160
Andrew Control of the	Atomornian		***			100.000		276
	ment		***					286
Exercise	57 "7 "5							188
G ld he ap								87
		tions		***				275
A.P.				***				5,818
1	1 D		***	***				0,010
			***					8
The second secon			***	***	-			_
			***	1280				22
			****	***				-
A basion Sa	tion		***					14
							12	49
				0,79				942
				755.30			9	11
				7			58	18
							46	151
		present da					105	249
1		weight		1383		421	172	300
Weight				303		183	17	72
(103	184	40	58
m)				333	857	479	211	349
Tempera u e)	Abnormal				265	307	18	84
)	Still positive				654	382		233
Sulum 1					263	51	47	81
o u um	Became nega	tive	***		166	323	77	111
1	Became posit	tive			39			5
Successful A.	P. continued		***		401			26
					7.40 (0.00)	110000000		29
					100000000000000000000000000000000000000			256
			***	***		100000000000000000000000000000000000000		51
C ndition sta	tionary							115
Died			***		100000000000000000000000000000000000000			14
	(Working)	Fully			6			52
Ability to Wo l	S	Partially	y		10000011			227
	. Tucabanie							144
								1117
								118
less than 6 mo	nths i		***		695	325	211	318
	discharged Epu um Le i in Tempe atu e General treat Exercise G ld he ap A.P. Extrapleural Phrenic Crush Pleurotomy Aspiration Thoracoplasty A hesion Se Complications No of other Pts. went on A their ewn ue Consent of Pl Weight Tempera u e Stutum Successful A.I A. P. failed Condition imp Condition woo C ndition sta Die 1 Ability t Woll n of stay in da 6 months or m	Epu am Positive Negative Unilateral Bilateral Cavitary Normal Abnormal Abnormal Exercise G ld he ap No. of patie No. of injec Inductions Refills Extrapleural A.P Phrenic Crush No. of other injections give Pts. having seven Phrenic Crush Phrenic Laure Phrenic Laure Phrenic Laure Phrenic Laure	Epu um	Spu um	Spu um Positive Negative Unilateral Bilateral Cavitary Normal Abnormal Abnormal General treatment Exercise No. of patients No. of injections A.P. Inductions Refills Extrapleural A.P. Phrenic Crush Pleurotomy Aspiration Thoracoplasty A hesion Se tion Complications No. of other injections given Pts. went on leave an did not return A their own Pts. refused treatment Pts. having special difficulties Consent of Physician Normal Still positive Stationary Normal Still positive Sturm Still negative Became positive Successful A.P. continued A. P. failed Condition improved Condition improved Condition stationary Die Morths or more Complication Complication Condition improved Condition stationary Die Morths or more Complication Fully Incapable Condition or more Complication Complication Condition Condit	1.122 Spu um	Consert of Priscients Consert of Priscients Consert of Physician Conditions Consert of Physician Condition were Consert of Physician Condition were Condition stationary Condition were Co	Spu um

Total 919 870 6 608 776 537 243 929 130 409 272 206 201 88 Ouses 6. newah Table No. 34.—NUMBER OF POSITIVE T.B. CASES NOTIFIED BY THE DISPENSARIES DURING THE YEAR 1944 ACCORDING TO RESIDENCE 00 64 73 8 Qens 63 28 20 Girga 10 167 186 tuissA 04 190 Minia 219 124 Payoum 53 E Bend-Suef 249 18 18 283 Gira 38 29 26 124 Rallubla 8 32 3:3 291 Sharkia C4 31 391 15 168 Dakshlia 27 00 29 Menoush 00 9 281 33 131 233 87 Gharbia 52 316 64 380 Behera siliamal bas 23 # Canal, Suez 00 C4 239 Port-Said 231 164 Damietta 609 Alexandria 626 685 807 422 Cairo 1,914 Dispensary : Mehalla el Kobra " Shebin el Kom Unit 1 Mobtadayan Damanhour Alexandria Mansoura Damietta TOTAL Port Sid Boulac Zagazig Fayoum Khalifa Tanta Assiut Minia

TABLE No. 35.— AGE DISTRIBUTION OF DEATHS RECORDED IN CHEST DISEASES DISPENSARIES DURING THE YEAR 1914

_ D	ispe	neary				1-5 Years	5-15 Years	15-25 Y ars	25 35 Years	35-45 Years	Over 45 Years	Tota
Boulae						12	37	110	00	00	00	
fabradamen.		***	***	***	***	4	9	39	83 29	28	28	298
Chalife.			***			4	14	53		20	5	106
Late		***	***	***	***	4		20	35	19	14	139
	•••					5	4		25	10	6	65
hebin el Ko	***				***	0	12	, 13	18	13	5	66
dahalla el K						-	4	14	14	5	3	40
			***	***	***	4	4	14	19	16	5	6:
					***	-	-	9-	8	5	-	22
	•••			1000	***	2	3	15	5	5	4	31
						2	4	42	36	12	11	107
				***		2 .	7	14	20	5	8	56
		***			***	-	7	39	27	7	_	80
The second second						-	1	16	24	9	4	54
						6	1	8	9	1	10	35
finia		***			****	1	2	6	14	8	1	32
lena							2	3	6	1		12
		To	TAL			42	111	415	373	164	104	1,208

TABLE No. 36.—Number of Chest Diseases units Since 1929

	Yes	ır		Chest Dis Dispense		In Patient Sections	Sanatoria	T.B. Bone Sanatoria	Preventoria	Settlement
					Tranches					
929				2	_	_		_		
936				3	-	_	_	_		
931				3	-	_	_	_		10.00
932				3	-	-	-		_	
933				4	-	_	_		_	
934	***			4	-	_	1(')			
935				5	-	_	1			
936			***	6	-	_	1	1(*)	_	_
937				8	-		1	1	_	100
938				12	-	2	2	1	1	_
979				13	-	2	2	1	1	-
949				14	-	4	2	1	4	-
141				14	1	4	2	1	4	_
142				15	3	6	2 2 2 2 3	2 2	4	-
143				15	3	6	2	2	4	1
044				16	4	8	3	2	4	1

N.B.—(1) Four I Sanatorium, Halwan, was attached to this Section in September 1934
(2) Ma itime Sanatorium, Alexandria, was attached to this Section in September 1936.

-		2			-		-			E NO		-	-	ТВ	Cas	os la	the	Dape	me ves	7) 0	(Nes	Pat	-	admitt
	seeking	ensar	T.B.	Cas	8	6						Age	Group	18						1		Protes	erions	
	New Canna see	Treatment (Dispensary)	Total	Sputum+	Ray+	100	rom -9 sars	Fre 10-Ye.	-19	Fro 20-: Yea M.	29	30	om 39 ars	Free 40-Yes	49	Fr 50- Ye	59		Year	Vendors	Officials	Workmen	Peasants	Studente
	10.7 8.1 7.7 8.6 8.2 9.0 8.6 4.4 4.6 7.2 7.0 6.3 4.6	119 8 118 1 173 6 16 3 16 3 174 1 174 1 192 1 193 1 193 1 194 1 195 1 19	370 7 6 337 318 339 248 130 104 356 00 243 272 201	598 560 540 383 233 251 185 97 328 483 263 165 245 162 182	331 9 310 7 236 6 154 8 85 7 83 8 63 8 33 4 76 4 173 6 146 6 78 4 27 5 39 4	826 1 249 1 9:2 2 136 898 701 682 1 382 1 362 - 223 590 1 603 527 568 426	7 15 3 14 7 23 8 2 9 7 9 14 — 5	88 91 72 44 24 26 15 75 39 32 14 11	61 5 46 33 17 13 12 6 29 43 15 16 11 8	230 206 211 151 81 87 52 31 105 190 119 62 49 44 35	142 92 87 59 41 43 27 15 30 58 45 23 27 22 24	1 0 177 126 91 58 56 45 30 71 122 74 37 85 39	76 80 61 51 21 39 21 20 38 27 27 27 23 24 45	79 75 65 46 38 27 21 6 41 57 22 20 28 13	43 33 21 25 6 11 12 4 13 19 13 12 13 7	28 22 22 18 12 12 12 2 15 21 24 7 6	177 3 6 6 2 7 5 5 5 6 3 3 4 8 6 2 2	100 77 88 66 9 4 4 1 1 9 7 7 7 7 2 4 4 2 2 3	3 1 1 1 1 2 1 1 3 4 4 1	67 73 31 16 14 7	103 96 33 31 10 8 22 63 15 18	991 215 88 84 84 82 77 319 131 111	102 79 65 183 81 99 47 35 143 24 92 5 100 78 61	28 3 29 3 37 2 12 1 6 1 7 1 6 1 4 2 8 1 4 1
TOTAL	1.5	86	80	56		506	-	7 596	1	21	710	27	4 583	10	- 239	511	- 83	76	- 30	4	9		33	1 153 23
.,,,,	8 4	64 28 62 63	8 10 31 48	7 9 27 29	1 1 4	860 — 418 — 531 — 815 —		1 4 5	1	1 5 4 14	3 - 4 2	2 2 5 15	- 8 3	1 2 2 6	- 1	2	11111			2 2	1 1 1	1 4 4 9	2 4 5 27	-
	7	29 11 91 40 3	57 1	836 560 225	289 .97 104	4 3 34 20 11 —	The second	141 98 53	83 69	496 291 169	132 68	172 114 70	56 37	74 34 39	31 16	10	4 3	5 4	2	69 46 24	82	2'0	154 96 58	77 3 54 2
TOTAL	-		11 10		590	49 2		292	152	-	200	356	93	147	47	37	-,	10	2	-	-	8.6		134 5
	Exa	m. o	f (Sa	nat).	-	01	d Case	a (Di	sp.)		Vis	its (I	Disp.)				1	Disab	arged	Pari	ents		-	- 18
							ation			Diseases	1 22	9	3		1	rige .				1	-	Abiti	ty to	Work
	Teeth	Nose	Throat	Ears	Total	T.B. Cases	Under Observation	1	Contacts	Other Chest I	Numero Visi		M.O. Visit	Total	Po	Z Discharge	Improved	0	Stationary	Worse	Died	Complete	Partial	Unable
	27				6,44 8 2 7 9 4,84 7 44 9 66 6 16 5 6, 6 16 17 4 6 90 8 33 7 00 2 20 4 00 1,9	77 6 44 67 5 43 33 3 94 3 994 3 99 66 4 44 93 2 33 94 2 56 95 2 79 10 11 11 13 10 16 16 10 16 10 16 16 1	57 55 1-11 55 1-12 55	79 53 110 5 0 196 128	484 686 1.274 143 320 494 262 126 229 766 213 180 612 101 257 46	1,23 53 154 56 2,69 3,58 2-91 2-07 2-77 1,08 1,93 6,59 3,81 28	6 1 · 0 1 · 3 1 · 8 1 · 5 1 · 6 2 1 · 6 2 1 · 7 7 1 · 7 1 · 7	0200	393 393 280 292 371 219 351 452 438 180 374 201 314 368 400 225	39 200 177 8 4 4 4 2 2 7 14 17 3 4 4 6 6 3	2 2 2 5 1 1 3 0 1 4 5 1 1 7 1 8 0 0 5 0 0	12 49 24 30 10 46 81 01 18 24 42	71 5 10 1 89 1 36 16 11 14 29 60	91 246 100 100 57 25 8 14 -58 84 136 22 31 35 11	56 75 47 49 17 8 27 9 35 11 12 2 16 7 4	47 36 44 12 9 7 10 5 13 18 1 5 9 8 2	55 35 14 10 2 - 6 - 3 9 12 3 2 5 4 1	-2 15 2 3 -2 -5 2 -19 -2 1		8 100 3 7 2 100 4 2 4 2 6 1 6 1 7 7 8 1 8 1
TOTAL	27	_	(_	-	60 3	-		197	31 76		-	5 - 391	-	81.0	1-2 8	06 1 -1	126	375	226	161	53	95	3 21
						32 47 21		3 11 75 81	- 68 24	38 11 62 62	9	49 4 45 266	101 4 6 162	=	9 -	6	3	5	3	-1			=	3 =
	1068 915 84	337 684 181	786 684 181	68	4 -	=	==			Ξ	-		=	1 · 12 78 22	8 4	14 3	74 4		303 30 56	100	101	35 17	55 32 12	1 3
TOTAL	067	120	1620	114	1 -	1-	1 -			-	1 -	-1	-	2-13	912	44 85		-		-	17	58		
							Ni Ni Ni	umber umber verage	of p	patient patient ation	ts ad a dis	mitte schar	ed du	r ng uring	the	year year	1	129 129 122 139 487	Al	791 788 183 464		10	27 92 94 90 25	Zagaz 1 4 4 12 1

anatori	umi						(D sp.		non			Sputum	Exam	ination	1		X-Re	y Exa	minat	ion
Disp.)	-	Clas	Bet 1	Fana	t.)	1	1		Observation sp.)	ii.	8					1			Old	Patients
Sanat.	Outside.	Pt	2nd	3rd Paying	3rd Gratis	Children	Adults	T.B. Contacts	Cases under Obs (Disp.)	Hamoptynis	Total of Sputum	Sputu	Control of the last	Sputur Old C		Total of X-Ray	New	Cuses	Pos	Under Observ.
Cases	3 _			3	· ·			-	Cass		T	No.	Pos.	No.	Pos.	T	No.	Pos.	No	No. Pos
88 3 91 1 63 2 32 71 1 19 27 27 27 42 1 103 1 47 37 32	235 85 11 28 79 72 20 20 37 62		THE STREET	HILLITH	92 3 42 - 53 118 72 37 62	463 453 339 132 225 122 117 71 99 531 187 125 134 81 61 28	443 588 588 588 258 207 279 129 75 123 6 6 311 192 180 117 79 66	31 26 1 22 21 17 5 1 4 43 39 11 - 6 1 2	22 -80 108 152 8° 78 76 307 55 225 27 66 11	-48 -50 53 21 -4 2 17 -63 1 13	2·161: 1·5·3 1·827 1·733 1·033 1·201 740 437 913 2·3·9 1·310 514 1·073 681 149	1·172 1·286 1·37 572 682 555 293 539 1·109 732 286 706 319 482	383 23 251 185 97 328 483 263 165 245 162	331 541 696 511 519 185 144 1-250 578 228 373 384 199	109 80 162 300 118 183 48 10 18 525 211 83 101 16 67 5	857 786 879 293 33 431 772 176 609 763 924 924 134 329 183 65	728 692 717 121 318 332 251 130 637 745 612 62 92 293 170 57	323 192 606 57 235 220 130 404 656 308 64 201 77	87 88 17 19 87 21 12 60 8 292 34 60 33 12	7 -
-	74	=	=	=	5*9	3168	4241	230	1-71)	286	18-363	11-598	4 - 721	6-765	2-365	7-148	5 858	3 757	10-10	250 2
2 1 8 14	2 - 4 - 6 -		6			13 - 3 15	11 - 5 40	_ _ _ _		= 2	14 13 51 81	13 13 48 66	9	3	- 2 3	-8 10 - 35	8 10 - 30	-	-	= = =
=		-1	54 24	100	971 674 310	=	=	=		34 388 72	4 · 302 4 · 598 778	1·129 778 333	836 560 225	3-820	1 · 841 1 · 553 222	1 · 306 1 · 570 203	134 775 177	134 718 173		- 27 -
1 =		7	78	193	1984	=	_		-	194	9 674	2 240	1 (51	7-4 8	3 616	3 079	1,086	1.025	1966	21 -
Treatm	-			-			leural	-		Operat	apleura	1	1	1	1					
PloD	Other I	Exercise Treatment	General Treatment	Aspiration		eumo	Refils	Internal @	Phrenic Operations		Rofils		Thoracoplasty	Plearal Lang	Refused admission to Sanato i	No of Deaths		REI	MARI	cs
31	87 1	109	1789	- 5 4 48 4 7 13 - 1 22 6 4 3 8		62 33 28 1 1 59 1 99 31 29	46 1-94 1-89 1-86 1-42 1-68 49 32 1-63 1-46 2-40 876	3377	111111111111	111111111111111111111111111111111111111		6			1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 63 6 22 0 62 2 49 7 34 107 8 80 9 56 4 54	Khalif Manro Tenta Zegazi Mchali Shebip Damas Alexar Damie Port S Fayou	dayan a ura ig la el Ko el Ko nhour ndria tta Said m	H	
4 2	-	-	=	11		28	10	-	=	Ξ	=	=	= =	-	=	3° 32 12	Assint Minia Qena		:	
93 8	370 15	239	1505	1112	-	4 -	131		=	-=	-	-	= =		11	-	TOTAL		"	
			1111	- 10	1111	200	8:	=		1111	===	===				- 8 7	Benha Samal	f Branch Branch Branch	h. nch.	
1 6 14 115 70: - 3		129 90 53	140 3-4 46	40 310 18	2	129	5 · 72 · 8 220 1 · 839	21			=	6 4	19 -	1 1		1111	Abbas			
231 883	35 2	172	510	368		181	1 -287	48		2	-	10	19	1 2	1	-	TOTAL		Ci	Same !
									11 12 11	8 0	18 37 40 180 15		18 £3 52 131 19	Assiut 14 62 61 119 15	Dan	53 32 103 21	Por	52 36 60 16	Giz	340 229 66 111

REMARKS MARG T.B. CONVALESCENTS SETTLEMENT DURING THE YEAR 1944 Referred to Contacts Convales. Discharged 8 9 10 9 38 Contacts 64 64 04 CA 9 Convales. 63 00 1 Brothers Kind of Relation Fathers 63 Mothers 8 -14 8 00 8 38 stog 00 10 63 91 Wives No. of Resident Contacts 12 20 6 63 = TABLE No. 38,-ANNUAL RETURN OF CASES ADMITTED TO EL Health Condition still under Treat. 00 63 64 sointenbai rodiO 95 04 Peasant 64 10 Shoe-Maker -64 9 ToliaT CQ Carpenter 1 Above 50 Years -\$180 Years -¢4 04 00 30-39 Years 2 63 \$1a9 Years -Below 20 Years 3 64 No. of Convalencents 器 : : Month November ... TOTAL September December October February March ... January August June April July May

No. of Convales. discharged during the Year 10 admitted during the year 25 10 No. of Convales, on 1st. Jan. 1941 ...

:

25 on Dec. 31, 1944



							Rosu	th of		-					New	Cun	DRES
			g thei				manto	ux test		Deta	ails o	f thei	ir rela	tive	patier	te	
	pez						in the	child		Cond	ition			R	elatio	n	
	Discharged	Other diseases	Ophthalmic	Chert	Intestinal	Stomach	+		Les	ion	Alive	Dead	Other relative	Sister	Brother	Mother	Father
		Other	Ophth	Ch	Intes	Ston			Sp.	X.R.	Al	De	Other	S	Bro	Mo	Fa
						1											
Zeitoun Preventorium	104		8 19	11	6	73	72	23	58	66	114	10	1	1	10	57	55
Marg "	0.7		3 56	-	-	-	6	10	9	31	40	2	-	-	2	1	39
Alexandria Prevent		7 Died	1 -	-	-	2	65	2	-	-	66	1	-	-	10	4	53
As-iut Prevent	. 25		06 28	-	4	1	9	9	9	9	27	1	5	-	-	14	9
	-		-		-	-	-	-	-	_	-	-	-	-	-	-	
TOTAL	. 241	52 1	103	11	1)	76	152		76	106	2 7	14	. 6	1	22	36	126

			Zeitoun	Marg	Alex.	Assist
N.B.—						100
Number of Ch	ildren o	n let, January 1944	81	45	88	87
		admitted during the year	124	42	67	28
		discharged ,, ,,	122	37	63	25
	**	on Dec. 31, 1944	83	50	42	40

TABLE NO. 40-ANNUAL RETURN OF CASES TREATED IN ALEXANDRIA MARITIME SANATORIUM AND

							0	UT-PA	TIEN	r SEC	TION									1
				New P	atients			-				Old	Patier	its		Tr.at	ment	-		
on the	Under t	years	5-10	years	Over 10) years	ets	Gulma	bones and joints	diseases	Total	Rickets	Spine	bones and joints	sesses	Electricity	a Violet	Minor Operations	Drowings	X - Hays
Total	М.	F.	M.	F.	м.	F.	Rickets	48	TB. bone	Other	To	Rich	T.B. 9	T.B. bones	Other diseases	By Elect	By Ultra	Minor (Dra	X
302	49	15	33	17	87	81	23	27	56	196	335	21	15	168	1"1	-	75	36	226	8
327	9	1)	27	17	160	103	7	115	1.5	90	397	10	161	112	114	-	-	-	-	Contract of the last
623	58	46	60	31	247	184	30	143	131	286	712	31	116	280	215	_	75	- 36	226	8

V.B.—			Alexandria	Helwan
16 300				
Number	of a	patients on January 1, 1944	68	93
		, admitted during the year	103	166
	-	e discharged during the year	103	164
2		remaining on Dec. 31, 1945	78	100

PREVENTORIA DURING THE YEAR 1944

			1				years 7 years			AGES				-										ne.
ove l	0 years	10 y	ears	9 y	ars	8 ye	years 7 years			6 ye	ога	5 ye	ars	4 ye	ears	3 у	81.00	2 ye	810	1 y	ear	Und one y	er exr	w children
	м.	F.	M.	F.	M.	F.	М.	F.	М.	F.	М.	F.	M.	F.	M·	F.	M.	F.	M.	F.	M.	F.	M.	No. of new
				_			-														-	_		100
1	1	3	3	5	2	4	6	8	*	8	7	4	.7	3	7	4	6	4	3	0	1	15	14	1
3	1	2	3	1	1	1	3	2	1	1	1	3	4	4	2	-	4	2	-	3	-	-	-	
2	2	-	2	4	3	3	4	6	6	2	4	2	3	6	-	7	2	2	2	1	1	2	1	
	-	-	-	-	-	1	1	4	1	3	-	3	2	2	2	-	3	-	2	-	-	2	2	
8	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-		-	1-
6	4	5	8	10	6	9	14	20	16	14	12	12	16	15	11	11	15	8	7	4	2	19	17	ı

PRINCESS KITADIGA ABBAS HALIM HOSPITAL FOR BONE DISCASES AT HELWAN DURING THE YEAR 1944

						-				I	n-Pat	HENT	SECT	ion								
				N	lew F	atien	ta						Di	schar	ged		Trea	tment				
10	Und 5 ye	_	5- yes			ver	Spine	Knee	r joints	Hip	меанев	la la	po	red	nary	in plaster	Electricity	Violet	Operations	Plaster	XRays	
Total	M.	F.	M.	F.	M.	F.	T.B. S	T.B. 1	TB. other	T.B.	Other diseases	Total	Cured	Im, roved	Stationary	Discharged in	By Elec	By Ultra	Major (PI	X.	
.08	9	7	18	12	35	27	33	21	36	12	6	103	27	47	23	6	-	-	27	39	228	Alexandria Mari-
66	9	6	23	12	71	45	54	14	17	7	74	164	19	47	48	10	-	400	36	120	720	Princess Khadiga Abbas Halim Hosp, for Bone discuses
74	18	13	41	24	106	72	87	35	53	19	80	267	86	94	71	16	-	460	63	159	948	at Helwan

Chapter VII.—VENEREAL AND SKIN DISEASES

Table No. 41 shows that the total number of patients attending the skin and venereal diseases clinics during the year and were found suffering from venereal diseases was 226,092 as compared with 204,511 in 1943.

The number of gonorrhoea cases treated during the year was 15,618 as against 24,891 in the previous year.

14,785 cases of syphilis were treated during this year as against 16,914 in 1943.
64,831 patients were under treatment for other venereal diseases as against 76,695 last year.

Attendance in Clinics:

The number of patients who ceased to attend trea ment before complete recovery was 47,451 or about half the number of last year, namely 76,980. Table No. 43.

Treatment Technique:

Sulphonamide compounds and preparations (Sulphathiazol and Sulphadiazin) are now in use in venereal diseases clinics for the treatment of gonorrhoea. It is proposed to introduce penicillin in the treatment of syphilis, gonor hoea and other skin disease when this drug becomes available.

Table No 41 - Showing the Number of New Cases and Visits to the Skin and Venereal Diseases clinics during the Year 19;4

				New Cases	Cares					Number of Varia	of Vusita				Total	
Locality of Clinic	-		Malo			Female			Male			Female				
		Under 16 years	Over 16 years	Total	Under 16 years	Over 16 years	Total	Under 16 years	Over 16 years	Total	Under 16 years	Over 16 years	Total	New Cases	Old	N. of visits
1	1	000	1 038	1 419	6.1	1 298	1 934	136	827			975	1, 195		2,518	5,864
Sayeda Lemab		2 64	4 398	7.962	8.489	15,261	23. 50		7.			9,569	10,277		20,007	51,71
Shouble		o x	2.67		1,112	4,043	7,155				65	20,958			43,227	51,633
Port Said	: :	1.188	1,4.3		3,192	3,015	6,207	3,861		8,739	7,	4,504	1,157		20 896	29,754
	0	1,439	2 811		2,352	6,204	8,556	2,507	4,114			7,162		12,806	18,001	30,807
B-mha		1,86	1,36	2,736	1,238	1,133	2,371			19 03	2,323		1777		0,0,0	38 470
Shebin el Kom	***	2,59	2,047	4,011	2,93	0 804	4,920 5 use	2,103					15, 55	24	28.788	41,09
Tanta	:	2,051	1 500	9 435	0,00	780	1.57.						7,50	4,185	14,711	18,896
el Kobra	:	9.4.8	2.946	5.379	2.216	1,859	4,075	2,7-2			3,501		7,721		19,026	28,480
Lagazig	:	1	2.169	3,48	1,194	2,495	3,686		6,		1,861	11,835	13,696		21,919	29, 85
Mt-Cham		69	1.5 7	2,23	4,1 6	2,2	6,417				6 874		1,396		20,261	28,916
		2,512	2,174	4,686	3,12	2,430	5, 45	5,871	5,0 2		8,228	7,959	16,187		2 ,140	-
Giza	:	17	320	337	39	929	71.0	3 008	1,67	2,237	9,616		7 850	4,64	12 065	10, 521
Fayoum	:	763	1,396	2,15	1 11	1,09	2,44	000,1	1,011		210		5.239		7,919	
Senn 1,718	:	8,00	1 000	1.2.1	1,411	9 198	5 499	1 564	4 771	6.335		7,086	8,847		15,18.	.5.504
Beni-Suel		1 94	9 345	3 687	3 010	1.816	4,856	4.10	10,102		4	6,2/0	10,390		24, 92	33, 135
Minia		Toot.	951	305	11	292	363	186	4,316		-	6,899	7,108		12,411	13,079
Assiut		96	115	141	32	161	19	16	1, 8.	1,344	212	2,307	2,519		8, 463	4,197
Del uv	-	500	3.877	4.3.6	2, 3	6,002	6,:81	1,245	2,160	3,40	4	3,386	7,619		11.0 4	21 991
T. T	:	1.777	2,12	3,903	1,702	3,293	5,000	201	441	642	241	628	869	8,903	1117,	10,414
Ko. hog		1 6	1,531	2,522		655	1,552	945	5,326	6,271	1,1 5	4,436	5,541	4, 74	11,812	I.,88
Owner Comments		1.025	1,475	2,50	1,381	2,408	3,7.9	1,225	2,176	-	2,300	4,006	6,306	6,289	9,7.7	15,996
New Hammadi		1, (32	1,166	2,198		1.891	2,886	214	2,657	2, 7	465	4,220	4,685	5,084	7,556	12,640
		008	1,040	1,84		1,341	1,738	4,04	5,713	9,748	1,590	5,484	7,074	3,575	16, 2	20,400
:		23		11	1 100	132	146	27.2	2,129	2,354	469	4,280	4,749	247	7, 03	7,30
Moharette Bey	:	80		3,970		1,77	2,258	8,069	35,36.	43,432	5,553	21,082	26,639	10 979	110,067	190 916
Калисия	-	2 . 96	7,754	10,250			8,129	0	40.404	04, 15	2001	00		010,01	000	125,521
	1		20 00	W. 1 20	6:0 12		190 1 192	9 9 9	112 191	292 036	66 66	21 626	200000000000000000000000000000000000000	260 9 2	+05 ×24	8 2 366

			Gor	orrhoea								Syphi
Clinic	Act	rte	Chre	nie	To	tal	Prim	ary	Second	lary	Terti	ary
	M.	F.	М.	F.	M.	F.	31.	F.	М.	F.	М.	F.
Sa d Zei b	56	126	437	1,565	997	1,691	101	10	138	63	43	21
Sh ubra	224	249	240	466	46	7 5	122	29	12	60	63	46
Gamalia	1,229	2,0.1	200	1,644	1,435	3,655	439	69	17	107	20	8
Port-Said	131	6	. 9	63	140	69	56	5	68	30	9	-
Suez	1 6	27	37	18	193	45	22	-	26	6	14	3
B nha	50	S	110	284	16	2 3	8	-	7	10	14	11
Shebi el K m	74	18	3	91	106	1(9	89	9	107	102	15	14
Tanta	188	84	70	38	258	4 2	139	20	101	85	82	23
Mehalla el K bra	82	37	17	12	9.9	49	8	1	78	38	36	4
Za azig	3/8	44	2	1	310	-45	169	9	68	69	20	28
M soura	8	31	4	111	85	142	10	17	82	63	2/	18
Mil-Ghamr	31	1	1	18	32	-2	28	2	10	7	4	3
Damanhour	85	127	15	2 6	100	343	18	9	39	26	32	18
Giz	46	1.4	17	1 2	103	310	40	2	17	14	11	8
F you m	116	144	15	33	131	177	40	3	126	126	99	50
Senouris	11	-	2	-	13	-	16	6	11	15	11	9 12
Be i-Suef	89		26	98	115	111	38	2	108	16	16	12
Minia	170	11	9	184	18	195	385	12	132	70	11	6
A i t	54	19	15	59	69	7	40	2	42	16	11	10
Dei 1 t	4	1	2	1	6	2	24	6	40	31	22	46
Gi ga	11	3	6	7	17	10	. 77	2	87	119	24	19
Tah	5	5	12	61	17	66	2	-	19	28	41	76
Suhaa	28	-	2	-	30	W.	24	-	65	38	17	29
Qen. g	31	12	20	46	51	58	27	1	43	36	19	21
Nag-H mmadi	1	5	3	16	18	-19	_ 28	2	61	11	3	3
Luxer	28		30	31	58	35	69	5	10		32	19
A wan	8		12	6	20	7	4	1	12		11	15
M harr m Bey	204		149	181	353	274	45	4	239		76	71
Karacuz	465	13:	154	29	619	- 426		38	3.2	303	118	91
TOTAL	4,494	3 354	- 6:4	6,676	6.19	9,430	2,498	266	2,418	1,768	899	682

TABLE No. 43.—Showing Number of Venereal Diseases Cases Treater

	-			E 110.	Die	jents Cor	nulstad	Trans trans		-	-	-	
					1'at	tents Cor	npieted	Treatme	16	200		1	10
Locality of Clinic	0	lonorrhoe	n		Syphilis		Ot	her Dise	ance			Percentag	ge
Locality of Cunic					-	-			m	Grand Total	Gonor-	Sankilia	Other
	M.	F.	Total	M.	F.	Total	M.	F.	Total	10401	rhœa	Syphilis	Diseases
		21	118		11	11	63	19	12	211	55:92	5.22	38 86
Sayeda Zeinab	97	1000	535	6	2		135				5-22		94-7
8 ub a	103	023500	1,313		50	138	62	719			4 . 2		48.1
Gamalia	447	The second second	1,490		71	1,37	145	1000000			41 55	38.43	
Port-Said	103	4000	15	_		_	3, 0	6,231	9,335		1.58		9 .42
Suez	122 22	17	39	25	2	40	2	_	2	107	36.45	37.38	26.17
Boha	44	1	_ 55	_	-	-	3,103	3,110	6,913	6,93	-	-	100
Shebin el Kom	81	190	271	210	2.4	434	4.10	3,12	7,22	7,934	3.41	5.47	91 - 11
Tanta	45	1	57	6	4	10	1,027	1,12	2.5 2	2,619	2.17	.38	97-45
M halla el Kobra.	6		* 6	11	6	17	1 2	13	277	:00	2	5.66	92:34
Zagazig	16	88	104	9	38	47	72	>30	1,5 0	1,701	6.11	2.76	91.1
Mansoura	5	3	8	-	-	-	1,19	2,17	3,39	3,378	.24	-	99 6
D	25	5	75	1	6	- 7	3,984	4,4	3,378	8,478	.83	.08	99.04
C'	31	5	81	_	-	-	3	11	19	100	81	-	19
	7	19	96	2	-	2	1,02	1,223	2,21	2, 49	4.09	.08	95.8
Fayoum	9		9	14	27	41		17	17	67	13.44	61 19	25.37
D -: C 6	46	50	96	_	-	-	3,06	3,9.0	6,972	7,068	1.4	-	98.6
Minda	54	73	127	7	5	12	6	-	6	145	87.58	8.28	4.14
Amina	18	25	43		-	- 1	-	-	-		100	-	-
Dai +	2	-	2	-	-	-	-	200	-		100	-	-
0:	6	7	13	19	47	66	4,525	3,97	8,500	8,579	.15	76	99 09
TT Lan	15	45	60	-	-	-	2,515	3,54	6,0 5	6,115	.9	-	99.1
0. 1	5	-	5	1	-	1	0.95	516	1,481	1,487	.34		99.6
Qena	36	55	91	3	5	8	-	-	- 1	99	91.91	8.09	-
Nag- Hammadi	11	13	24	80	94	174	7	1	8	206	11 65	4 46	3. 9
Luxer	2	3	5	-	2	2	1,20	1,3.1	2,510	2,527	19	.0	99.74
A wan	5	-7	- 12	-	-	-		-	7	12	100	-	
M herem By	171	137	368	303	236	539	1,42	2:	2,149	2,996	10 28	19	71 72
Karmeuz	288	191	477	510	: 47		4,51	3,96		0,213	49 68	8.39	86 93
TOTAL	2,474	3,141	5,615	1,955	1,837	3,752	39,10.	51,242	30,351	99,758	-		-

T THE SKIN AND VENEREAL DISEASES CLINICS DURING THE YEAR 1914

											Dis ases		
Late	ent	Hered	itary	Nerv	rous	Tot	al	Chan	eroid	Other V D *e	enereal ases	· Tot	al
M.	F.	M.	F	M.	F.	М.	F.	M	F.	M.	F.	М.	F.
50	105	12	24		-	344	223	53	12	18	8	71	20
20	7	12	31	-	-	289	17.	-	-	6,73	8,261	6,732	8,261
139	139	10	15			780	33=	291	66	739	1,097	1,030	1,163
61	99	20	18		-	214	152	9		29	73	3	. 73
11	39	5	7	-		71	15	21		_		21	2
62	9	15	39	_		106	15	2	-	-		2	_
55	162	56	48			32	535		-	4,213	4,476	4,213	4,476
94	184	64	69	_	-	4.0	37	13	2	_		13	2
43	10	37	29	-		2:2	1 2	4		2,050	1,549	2,054	1,549
20	95	6	4	ment !		283	2 5	60	1	4,717	3,824	4,786	3,825
57	11	2	12			29.	226	188	8	5	1	19	
72	218	70	3	_	-	184	26	-		1	4	1	4
10	28	5	6	2	-	186	8 .	-	-	4,400	4,843	4,400	4,848
28	37	8	9 7	-	-	104	70	4	-	147	31	151	318
6	25	9	7		-	2.0	21.	-	-	-	2	-	2
5	41	16	29	-		59	100	-	-	-	26	_	26
14	24	8	10	1	1	18	. 10	5	-	2	14	7	14
27	6	19	29	3		577	185	66	144	-	-	66	
9	1 9	52	68	-	-	236	2.5			-	-	-	-
17	61	31	46	-	-	134	100	1	1		-	1	1
16	52	19	29	3	-	226	221	-	-	-	-	-	-
68	142	65	76	-	-	19	322	1	-	-	-	1	-
47	111	32	42	1	-	189	222	7	-	-		7	-
35	79	26	40	1	1	151	176	-	-			-	-
18	45	7	78	-		117	119	10	2		-	10	2
72	136	25	43	-	-	248	241	4	-		-	4	-
44	98	9	1	1	-	81	139	-	-	-	-	-	-
281	213	19	19	4	21	7(3	482	161	25	1,875	1,020	2,036	1,04
182	179	41	:1	55	39	96	681	23	56	7,174	5, 1	7,408	5,92
615	2.8 2	721	844	110	62	8,291	6,494	1.169	173	32,102	31,387	33 271	31.56

T THE SKIN AND VENEREAL DISEASES CLINICS DURING THE YEAR 1914

	The same of	Р	ationts who	Cease L to	accoul bof	ore Com	pletion of	f their T	reatment		Same of the same o	The same of
	Gonorrhœa			Syphilis	1	Oth	or Disca	908	Grand	- Pe	roentage	
M.	F.	Total	М.	F.	Total	M.	F.	Total	Total	Gonor.	Syphilis	Other D:*
325	446	771	97	.88	185	7	1	8	96	9 9	19.19	83
72	102	154	:0	120	150	81	119	200	501	0.5	29.76	19.69
858	2,380	3,23	258	29	556	120	18	30.	4,1(2	78.74	13.56	7.5
6	10	16	12	25	37	249	425	674	72.	22	5.08	92.72
65	23	8	2	17	46	411	200	617	791	11 4	6.18	82.15
100	21	121	81	11	199	-	_	-	320		61.19	02.10
96	47	143	2 3	178	441	312	9 5	1,247	1,830	7 -	24.8	68.2
177	232	45	270	147	417	1,20	1,16.	2,46	3,336	13.75	12.50	73.74
17	- 8	25	51	40	91	-	-	-	110	21.55	78.45	
302	44	346	272	199	471	4,575	3,6 9	8,201	9,081	3.12	5.1	91
58	86	144	167	156	32	1,5 0	600	2,3:0	2,87	5.05	11.35	83.6
6	8	14	2	55	81	92	1,702	2,6 0	2,725	52	2.97	26.51
59	247	306	91	- 42	133	297	431	728	1,15	25.2	11.3.	62.33
20	100	12	'52	21	73	3	51	84	27	40.3	26.3	30.4
62	50	112	10	50	150	20	273	5	795	14.08	18.86	67.06
2		2	25	33	5	-	9	9	69	2.89	84.05	13.05
64	66	130	83	, 57	140	1,175	1,314	2,489	2,759	27	5.1	50.2
131	122	253	570	168	738	6	_	60	1,051	24.07	70.22	5.71
19	20	39	74	127	201		-		2 0	6 25	83 75	_
4	2	6	50	(0)	110	1	1	2	111	5.0	93.22	1.7
4	1	5	24	20	44	224	492	716	765	60	5.7	93 59
12	11	2	5	97	153	536	765		1,477	1.5	10.33	8 .(8
25		25	104	135	239	1,5 7	1,006	2,53	2,87	97	8,16	90.87
8	10	18	40	53	93	-	-	-	111	16.2	83.78	-
7	6	13	37	25	62	3		4	79		78.48	5.07
40	21	61	93	61	. 15	114	221	335			28	60.91
15		15	3	73	111	-	7		126		89	-
182		319	400	246	64	612		335			84.0	49.14
333	235	56	45	334	795	2,402	1,06	1.15	5, 0	9.78	13.51	76.71
3,049	4.485	7,534	3,844	3,043	6,887	16,953	16,077	33 9 0	47,451	-	_	_

TABLE No. 44.— Showing Treatment during the last Five Years

	Ye	ar		No. of Clinics	New Patients	No. of Visite
1940	 		 	 23	145,801	622,220
1941	 		 	 23	148,194	636,503
1942	 		 	 25	168,074	548,545
1943	 		 	 27	204,511	739,376
1944	 		 	 29	226,002	606,874

TABLE No. 45 .- DISTRIBUTION OF BEDS

Hospital	lst Class	2nd Class	rd Class Spec.	3rd Class Ord.	Children	Opth. Branch	Total Beds for Patients	Beds for Staff	Total No. of Beds
Hod-el-Mar- soud	-	_	14	263	_	-	277	8	285
El-Kabbary	-	-	20	183	-	-	203	- 6	209
TOTAL	-		34	446	_	-	480	14	494

TABLE No.-46. NUMBER OF IN AED OUT-PATIENTS TREATED AND VISITS TO HOSPITALS DURING THE YEAR 1944

Hospital	In-Patients	Out-patients	No. of visits
Hod-el-Mar oud El-Kalbary	3,552 1,888	1,535 742	5,928 2,481
TOTAL	5,410	2,277	8,409

TABLE NO. 47.—Showing Hospitals and Patients treated therein during the Year 1944

1500	-			In-Pat	ients			Out P	tients
Horpital		Treated	D	ischarged du	ring the ye	ar			
		during the	Cured	Relieved	Not imp.	Died	Remaining	New Cases	No. of Visits
Hod-el-Marsoud El-Kabbary		 7 000	2,406 1,706	1,031	-	_	115 92	346 742	5,928 2,481
TOTAL'		 5,440	4,202	1,031	-	_	207	1,088	8,405

Table No. 48 .- Number of In-Patients treated and number of Deaths during the Year 1944

Hospital	No. of In patients	No. of deaths	Percentage
Hod-el-Marsond El-Kabbary	3,552 1 888	Ξ	=
TOTAL	5,440	-	- 100

Chapter VIII .__ MENTAL DISEASES

The year under review —1944—surely marks a new epoch in the history of lunacy in Egypt. For in this year the first Lunacy Act (Law No. 141 of 1944) was passed by both Houses of Parliament, signed by H.M. the King on September 11, 1944 and came into force as from October 11. Before the passing of this Act, the certification and admission of the insane to government mental hospitals, and their detention therein were effected under administrative orders issued by the Minister of Interior about half a century ago, while their admission to and detention in private hospitals and nursing homes were carried out without any certification whatever.

Accommodation :

The number of beds remained as in last year; and only a few necessary repairs were carried out, especially at the Abbassia Hospital.

Admissions:

The number of cases admitted to both hospitals was 2,404 of which 920 were females and 1,484 males. The number remaining on January 1, 1944 was 4,020. Thus the total cases treated amounted to 6,424 i.e. 210 more than the year 1943.

The number of those discharged during the year was 1,792, the deceased numbered 434; the patients remaining in both hospitals on December 31, 1944 numbered 4,198. The number of patients transferred between both hospitals was 349, of which 269 were transferred from Abbassia and 80 from Khanka. Of the admissions, 560 were recurrent cases.

Accused Persons :

The number of accused persons sent by the Procurer General for mental examination was 204.

Reports were sent on 16 other patients originally admitted as ordinary patients. Thus the total number of cases reported to the Procurer General amounted to 220. Among the persons sent for examination 19 were accused of murder or attempted murder, 67 of theft and 8 of assault.

Accused Lunatics in Residence :

The number of accused lunatics in residence amounted to 853 as against 883 in 1943.

Discharges :

The number of cases discharged was 1,792, of which 138 were recovered, 1,218 relieved, 532 not improved, 80 not insane and 4 escaped. The number of those discharged as not insane is comparatively high this year. This may be due to the great number of soldiers and internees feigning insanity with a view to escape internment camps or active service.

Pellagra :

The number of pellagrous admissions was 769 patients, of which 166 were females and 603 males. This is roughly the same number as in 1943

Pellagrous patients whether admitted with pellagra or developing pellagra during their stay in hospi al have been the subject of the special concern and attention of the Division. Nutritional diets, vitamins, and tonics were given to the patients. They were also provided with additional clothing and bedding. These efforts bore good fruit in that there was a decrease in the number of deaths as shown below.

Ages of Patients:

The following table il ustrates the number of admissions at different ages.

TABLE No. 49

		Ages	100			Number
10 to 15	years					62
Over 15	to 20	years.				373
,, 20	,, 25	,,				455
,, 25	,, 30	,,				370
,, 30	,, 35	,,				307
,, 35	,, 40	,,				209
,, 40	,, 45	,,		***		155
,, 45	,, 50	,,			***	116
,, 50	,, 55	,,				75
,, 55	,, 60	,,				58
,, 60	,, 65	,,				29
,, 65	,, 70	,,	***			24
,, 70	,, 75	,,				3
,, 75	,, 80	,,			***	7
,, 80	,, 90	,,		***		4
					-	
	Total	Persons	adı	mitte	d	2,247

Physical Condition of Patients:

Table No. 50 —shows the physical condition of patients on admission, since 1936

TABLE No. 50

711	- Division			Number									
Y	ear			admitted	Good or Fair	Poor or Bad	Very Bad						
				0.004	. 01	90	11						
	***	***			B 1000 100		11.						
***	***	***	***			7.00	14.5						
				2,538	53.7	30.5	15.8						
				2,294	55.6	29.5	15						
					58.5	28.5	13						
					62.1	29.7	8.2						
			12.0		69-2	24.2	6.6						
					59-3		5.9						
	100	-	933			1	.3						
					Year 2,064	Year admitted Good or Fair 2,064 61 2,314 53.5 2,538 53.7 2,294 55.6 2,188 58.5 2,272 62.1 2,346 69.2 2,291 59.3 2,404 69.2 2,404 69.2 2,404 69.2	Year admitted Good of Fair Poor or Bad 2,064 61 28 2,314 53.5 32 2,538 53.7 30.5 2,294 55.6 29.5 2,188 58.5 28.5 2,272 62.1 29.7 2,346 69.2 24.2 2,291 59.3 34.9						

The ratio of cases admitted in poor physical condition is therfore 38.8 per cent of the admissions. Those admitted during the year with intercurrent diseases or injuries were 1502. This number does not include the pellagra cases.

Deaths :

434 deaths occurred during the year 1944 as compared with 641 in 1943; the death rate to the total treated being 6.75 per cent in 1944 as compared with 10 31 in 1943. This shows the extent of success of the tremendous efforts undertaken to minimise the death rate.. Of the deceased, 213 cases died of pellagra or nearly 50 per cent of the total deaths.

Scabies :

Part of the efforts was directed towards scabies. The mounting cost of living especially the great rise in the price of soap, has manifested itself in the increasing number of patients admitted to the two hospita's with scabies. Drastic measures had therefore to be taken, including the provision of separate wards for scabies cases and the intensification of treatment. These were crowned with appreciable success, as proved by the lowering of the number of cases of scabies under treatment from 153 to 30..

Electric Shock Therapy

This has been carried out in Abbassia Hospital with good results in cases of depression and particularly in those suffering from involutional melancholia. The results of treatment in Schizophrenia were poor. In most cases with favourable outcome, the improvement occurred after six sittings, a few after ten. Additional treatment gave no better results and even tended to worsen the condition of the patient.

- 205 Schizophrenia cases were treated and gave the following results :-
 - 77 Recovered or markedly improved.
 - 29 Slightly improved.
 - 99 No improvement.
- 30 cases of Manic-depressive insanity or involutional melancholia were treated and gave the following results:--
 - 24 Recovered or markedly improved.
 - 1 Slightly improved.
 - 5 No improvement.

Convulsion Therapy :

This was carried out in both hospitals, mainly in Khanka by the use of Cardiazol or Tetracor. Ammonium Chloride was also used by Khanka Hospital. The following table shows the results obtained:—

TABLE No. 51

Method of treatment	Mental Disorder	Recovered or Markedly Improved	Slightly Improved	No Improvement	Total Treated
Cardiazol or Tetracor	Schizophrenia	32	23	41	96
	Manic Depressive	5	2	2	9
Ammonium Chloride	Schizophrenia		5	2	13
The state of the s	Manic Depressive	1	-	1	2

Fever Therapy :

This method of treatment continued to be used in both hospitals.

Wassermann Tests:

These tests were carried out as usual by the Laboratories Department of this Ministry and gave various results. Specimens of cerebro-spinal fluid were also taken and examined, whenever it was found necessary.

Out-Patients Clinic:

Work at the out-patients clinic continued. 14 patients were examined and treated_

Dentistry and Ophthalmology Departments:

The number of patients who attended the Dental Clinic was 756 in Abbassia and 594 in Khanka The work in this department is progressing, with good service to the patients.

In the Ophthalmology Department, the work was also carried out with useful results. The Khanka Hospital is visited by the oculist only once every month and it is proposed to make these visits weekly.

Artificial Feeding:

This was made on 7,637 occasions without accident.

Epileptic Fits :

,509 epileptic fits were recorded during the year.

Cases Treated Medically :

8,488 cases were treated locally from physical ailments other than their mental illness. This does not include the patients sent to other hospitals for surgical or other treatment.

Government Employees :

210 Government employees were examined for mental trouble, of whom 70 were in patients, the rest (140) being sent by the C ntral Medical Commission for examination and report.

Births :

Eight births took pl ce in Abbassia Mental Hospital.

Accidents :

38 major accidents and 1,817 minor accidents happened in both hospitals. Out of the major accidents 4 were unfortunately fatal.

Suicide :

There were no cases of suicide during the year.

Escapes :

12 patients escaped during the year, 8 of whom were brought back to the Hospital by the police authorities.

X-Ray Department :

196 films were taken during the year, and 269 examinations by screen were made on patients.

Staff:

The war conditions have made it difficult to obtain candidates for the vacant posts of female attendants, and the number of vacant posts remained comparatively high; amounting to nearly 20 per cent of the total number.

Lectures :

During the year a joint scientific meeting was arranged between Egyptian psychiatrists and their British and American colleagues serving in the Near East. It was held in the premises of the Royal Egyptian Medical Association (Dar-el-Hekma) on April 29th. Four papers were read, one on the Future of Psychiatry by Brigadier R. F. Barbour of the British Army, the second on the Medico-legal Aspects of Pellagra by the Director of the Mental Diseases Division, the third on Acute Schizophrenia in time of war by Capt. Flumerfelt, and the fourth on the Classification and Measures of the Depth of Dementia by Dr. Mohammed Abdel Hakeem, Director of Khanka Hospital. H.E. the late Minister of Public Health had attended the opening paper. The following day a visit was paid to Khanka Hospital.

A visit was made to Abbassia Hospital by British psychiatrists on the 5th of October Other lectures were delivered as usual to the students of the final year of the Faculties of Medicine of both Fouad I and Farouk I Universities, to the Doctors attending the post graduate course in Psychological Medicine and Neurology and to the nursing staff of the two hospitals.

Khanka Farm :

Despite the difficulties of obtaining water and manure, the farm continued to perform the double purpose as a place of occupational therapy and as a means of supplying the hospital with vegetables nearly all the year round, also supplying Abbassia Hospital with any surplus vegetables that may not be needed at Khanka:

Chapter IX.-HEALTH PROPAGANDA

All available propaganda devices have been utilised in this field. Broadcasts, theatrical presentations, holding of fairs, publication of pamphlets and posters, production of
models, etc. have all been introduced. Propaganda units have been equipped with the
necessary apparatus and equipment, i.e. amplifiers, electric generators, gramophone records
etc. Besides health education, propaganda units took an active part in the campaign
against infectious diseases.

The following is a statment of the work achieved :-

PROVINCIAL HEALTH PROPAGANDA UNITS

Headquarters:

Considering that the activities of the units, when stationed in a village, are limited to that village only and any other village to which there is easy access, it was decided to station the headquarters of the units in the chief towns of provinces and districts which usually form a road junction to all parts of the province and thus pave the way to a far-reaching health propaganda. Besides, any repairs required for the apparatus or vehicles can be carried out in the many workshops available in the town and at the same time keep the unit under the constant supervision and guidance of the Public Health Inspector.

Facilities:

Propaganda units have been accommodated in new tents and supplied with electric current to enable them to hold propaganda meetings in their headquarters.

Instruction of Propaganda Sanitary Overseers:

Lectures on various diseases and other health problems were given to propaganda sanitary overseers with a view to raising their standard of instruction.

Procedure of Propaganda Work:

This has been so modified as to cover the largest possible number of virlages. It is carried out on the following lines:—

Day Time Propaganda.—This is opened by broadcasting a few songs and musical conjosticas. As soon as the illustrate ass mile, the sanitary oversear begins his brief health lecture on the prevailing diseases and the safety of the individual. This propaganda involves villages, compulsory schools, public markets and other meeting places.

Evening Propaganda.—This is scheduled monthly. The meeting is opened by showing films on health or for amusement which are followed by two lectures; one deals with the prevailing diseases and the other with other health problems. The evening propaganda covers villages, socieites, clubs, public playgrounds, social centres, rural reform associations, schools, factories, parks and fairs.

Propaganda Apparatus:

As propaganda work depends to a great extent on the efficiency of the apparatus in use, two experienced cirema mechanics tour the various units to repair and keep in good unning order these apparatus. Modern motors, amplifiers and microphones have been supplied to the units to replace old ones.

Propaganda Units in Governorates:

Three units have been assigned to undertake health propaganda in the governorates of Cairo, Alexandria, Canal, Suez and Damietta. These have been supplied with entertaining health and social films to suit the different classes of the population. Large ize models of insect vectors of disease have also been provided for showing to the public-

Propaganda in Cairo:

Several day-time propaganda meetings were held in Cairo for the benefit of those who could not attend the evening meetings. These were held in main thoroughfares and meeting places, in schools for compulsory education, or in child welfare centres and hospitals.

Evening propaganda meetings were arranged for members of societies and institutions. Others were held in public parks during summer months. These were well attended. Special propaganda meetings were hald for the benefit of the Army. These dealt with important health problems. Other meetings were held in public playgrounds, social centres, reformatories and cooperative societies.

Propaganda through Broadcasting Station:

Use was made of the State Broadcasting Station in health propaganda as a popular means for approaching the public. Lectures in hygiene, prepared and delivered by specialists, were broadcasted fortnightly. Information on prevalent infectious diseases advice and warnings to the public were included in the news-bulletin. Broadcasting of representations dealing with the particular diseases prevailing during the season. Six such representations were broadcasted dealing with malaria, plague, ophthalmias, flies and government hospitals.

Pamphlets and Posters:

Large quantities of pamphlets were distributed to the public during health propaganda meetings, as well as to clubs, societies, schools and other institutions. Attractive posters illustrating in bright colours the various diseases and measures of protection were published and distributed far and wide.

Preachers as means of Propaganda:

Considering the great respect and high esteem which preachers enjoy, it was decided to engage one for health propaganda. After having been instructed in health propaganda matters, he was allowed to give his health sermons in Cairo and provincial mosques.

Models:

Much interest is given to the question of models. Sufficient models and material are being prepared to equip 6 provincial n useums of hygiene similar to King Fouad Museum of Hygiene in Cairo. The opportunity will thus be afforded the public as well as the pupil to visit these museums.

Cooperation with other Units:

Progaganda units cooperated in the activities of other units, e.g. assisting in the Tuberculosis week by holding meetings where chest diseases were discussed, undertaking an extensive anti-gambia propaganda in Assiut, Suhag, Qena and Aswan provinces, and proceeding to typhus stricken localities to assist infectious diseases gangs by demonstrating to the public the methods of combating the disease and protection therefrom.

Cooperation with other Ministries and Organisations:

Health propaganda is of necessity dependent upon the cooperation of other anthorities and organisations. These have been approached with a view to laying down the principles for cooperation.

It was arranged with the Ministry of Education: (a) To hold propaganda meetings in primary, intermediate and higher schools where M.O.s. of the Ministry of Education and propaganda staff would lecture the students.; (b) To supply all schools with the various pamphlets and posters on all diseases; (c) To form health societies within the schools to undertake health propaganda in neighbouring localities, particularly during holidays.

It was arranged with the Ministry of Social Affairs to hold propaganda meetings in the various institutions: social centres, public playgrounds, cooperative societies etc., and to provide their members with the necessary instructions so that they may assist in health propaganda work in neighbouring villages.

It was arranged with the Ministry of Wakfs to provide health sermons to preachers to be delivered by them in mosques during the spread of diseases. Sermons dealing with typhus and malaria have been supplied and delivered on the appropriate occasions.

Meetings were arranged in conjunction with the Ministry of National Defence for the benefit of the army. Ministers of Army Units have also been instructed in health propaganda so that they can include this in their sermons.

Propaganda meetings were also held for the police forces of the Ministry of Interior. These included police units, Buluk Nizam and Police College. Such activities were commended by the Minister of Interior.

Table No. 52—Statement regarding work done by the Health Propaganda Section (Central Administration at Cairo).

											Number	No. of persons attending
2. 3. 3. 4. 5.	Theatrical pla Number of Po ,, ,, he ,, ,, pu Meetings in r	deasted ys broadcasted beters distribute calth pamphlets ublic parks mee nouleds beasonal occasio	distribut tings ns and fe								22 6 1,500 680,000 17 2 20 117	156,700 2,500 15,000 40,484
9. 10. 11. 12. 13.	" " " "	the Army ,, Territorial ,, Police	Army								19 8 - 16 4	5,495 575 - 3,600 1,150
	Health propag	daytime r evening r meetings	n cinema neetings neetings against r	in Alexa in Alexa in Alexa nalaria chest dis	ndria indria						3 53 45 249 110 90	2,030 2,100 19,000 122,500 43,500 63,000
21 . 22 . 23 . 24 .		entertain entertain ganda entertain	for the ment for a	oublic ple various sanatoris clubs	aygro s soci	unds eties oitals	and & «	asso child	wel	ions fare	33 32	38,000 14,245 5,560 2,250
25. 26.	quarters,	Cooperative & genda in women	Charitabl		ution	3			s "		18 45	21,900 10,870

TABLE No. 53-WORK DONE BY THE PROPAGANDA SECTION IN THE PROVINCES.

Number of speeches given at schools .									1,192	-
", ", habitations inspected Nuisance sources inspected by the Units Schools where speeches were given . Number of speeches given at schools .								3.37	and the second	
Nuisance sources inspected by the Units Schools where speeches were given . Number of speeches given at schools .							***		10 579	
Schools where speeches were given . Number of speeches given at schools .				-			-	***	12,573	
Number of speeches given at schools .						***	***	***	13,015	1
					***	***		***	797	-
					***	***	***		2,983	-
" " pupils who attended these s						***			330,522	
" ,, thoroughfares or market place		here	prop	agand	la wa	s une	lerta	ken	339	-
", ", speeches given in markets .							***		630	12,90
Clubs .									23	5,450
Orphanag	es								14	50,976
Schools .									10	11,500
Factories.									7	41, 20
Societies .									51	1,895,745
Villages .									2,349	1,123,750
Markazes.									497	2 2,150
Banda s .					***				435	69,800
Thorough									26	35,700
Fetes and	-								15	9,040
Other Me									17	8,500

Part III.—TREATMENT

Chapter X.—GENERAL HOSPITALS

Number of Hospitals:

There were 82 general hospitals in operation during the year. Of these, 27 are situated in the governorates and chief towns of provinces; 53 in chief towns of districts; and two general diseases out-patient clinics.

Hospital Accommodation:

The total number of hospital beds this year was 6,553, of which 4,664 were reserved for patients and 889 for hospital personnel.

Treatment:

A proportion of the hospital accommodation is still made available for emergency cases arising from the prevailing war-time conditions.

The number of in-patients amounted to 94,895, and the out-patients to 2,286,758. The number of visits to out-patient departments was 3,980,330.

Operations:

The number of surgical operations performed in the in-patient departments was 32,174, and in the out-patients 73,622. This gives a total of 105,796 operations as compared with 32,110; 71,096 and 103,206 respectively in the previous year.

X-Ray Examinations:

The number of cases examined and treated with X-ray this year was 21,639 as against 19,605 in the previous year.

Deaths:

The number of deaths amongst patients treated in the in-patient departments was 5,678 from a total of 94,895 patients, i.e. 5 99%

TABLE No. 54.—Showing General Hospitals in operation since 1934

	,	Year		Hospitals in Governorates and Chief Towns of Provinces	Hospitals in District Chief Towns	Village Hospitals	Out-Patient Clinics
1934			 	19	45	50	1
1935			 	19	45	50	3
1936			 	19	45	50	3
1937			 	20	48	*60	3
1938			 	20	48	62	3
1939			 	20	48	62	3
1940			 	20	51	62	3
1941			 	20	52	-	3
1942			 	20	52	-	4
1943			 	26	52	-	3
1944			 ***	27	53	_	2

TABLE No. 55.—Number of Beds in General Hospitals

	Year	20111	No. of Beds	Note3
1934	 		 5,309	Kasr el Aini Hospital was separated from the Ministry.
1935	 		 5,852	
1936	 		 5,964	
1937	 		 6,341	
1938	 		 6,822	
193,	 		 6,979	
1940	 		 6,926	The lock hos itals were separated from the Hospitals Section
1941	 		 6,969	Village hespitals were separated from the Hospitals Section.
1942	 		 6,880	
1943	 		 6,363	Alexandria Hospital was separated from the Ministry.
944	 		 6,553	

TABLE No. 56 .- DISTRIBUTION OF BEDS

Hospit	al	1st Class	2nd Class	3rd Class Special	3rd Class Ordi- nary	Children	Ophth.	Total beds for patients	Beds for Staff	Total No. of Beds
King's Demerdash		: =	19	-	217 29	9	50	226 4/5	81 151	307 616
I cum ble Diseases,	Helwa	: =	-	-	118		-	1 8	13	131
Port-Said		2		12	175	13	-	207	14	221
Suez		 4	11 2	_	193	=	2 37	2 3 127	18	251 140
Damietta Damanhour		2		-	107	2	- 31	111	11	122
Tanta			4	-	21	2	-	224	28	2 2
Mansoura		 	-	-	193		-	202	12	214
Mit Ghamr			3	_	203		12	1000000	16	62 240
Zagazig Shebin el Kom		1	2		88		-	90		95
Benha		–	-	-	75		3		10	88
Kaliub		 	-,	-	100		-	74 101		78 107
Fay um Beni-Suef			_ 1	_	97		_	57	6 5	
Minia		=	2		103	12		122	9	
Fikria			-	-	30		13			47
Maghagha		 \-	-	1	189	-		204	-	222
Assiut			4	_	100		11			10000
Mallawi Suhag			2		94		-	96		
Tahta			-	-	26		-	26		
Qena		 	1		9		-	91		
Luxor			3 6		3 73	10				101
E:na					48		25			
Ismailia			-	-	84		8			
Delingat		 	-	-	2.		12			
Kafr el Dawar		=		-	27		.19			
Rosetta Shoubrakh t			-	-	2		12			
Edfir a			-	-	44		-	44		
Kom Hamada		 	-	-	29		11	40		20
E Mahmo a			=	=	30		15			
M halla el Kobra			-	-	111			118		
Samannud			-	-	40	3 -	8	54	7	61
Tayeba		 	-	-	3:		12			
Sherbin			=	-	26		15	38		The second
Z ta Kafr (1 She kh			-	-	60		_	60	6	1 / / / / / /
F wa			-	-	30		(
Kefr el Z yat		 	-	-	20		8	34	8	42
Ab ht		=	I		2:	3 -	- 8	31	9	40
Faraskour Smbellawein			_	-	28		15			49
Manzala			-	-	33	3 -	-	33		
Aga		 	-	-	48		8			
Dik rnes			=	I	24		12			
Belbeis Fagus			-	-	2:		12	3	8	43
Minia el Qamh			-	-	20		8	-		
Z w mel		 	-	-	2:		12	35		
Tala			=	_	25		12			
Ashmoun Mer ouf			-	-	36	-	16	52	10	62
Zawyet el Na'oura			-		24		8			1000
	:	 	-	-	27	-	1:	39	9	48

TABLE No. 56 (contd)

	Hospit	tal		1st Class	2nd Class	3rd Class Special	3rd Class Ordi- nary	Children	Ophth.	Total beds for patients	Staff Beds	Total No. of Beds
S ff							2° 39 26 26 26 29 32 23 40 30 21 40 25 25 22 28 2° 27		12 16 12 12 12 8 11 — 8 — 8 1 1 12 12 12 12 12 14 —	34 42 25	3 10 6 9 10 5 6 8 10 7 8 4 9 10 6 9 9	38 40 44 47 48 52 46 42 44 52 28
E fou E eiba El Dirr	OTAL		 	 	- 63			_	690		5 1 - 889	48 13 - 6,:53

Treatment.

The following table shows the number of patients treated in the hospitals.

TABLE No. 57.

	,	Tear		No. of In-Patients	No of Out-Patients	No. of attend- arce to out- patient sections	Patients treated in Village Hospitals	Attendance to Village Hospitals
1940	 		 	 104,478	3,015,066	5,435,477	1,175,477	2,671,104
1941	 		 	 93,029	2,596,697	2,142,282	-	-
1943	 		 	 95,587	2,375,913	2,358,883	-	-
1943	 		 	 87,326	1,749,732	3,256,737	-	-
1944	 	***	 	 94,895	2,286,758	3,930,336	-	_

The following table shows the number of deaths among in-patients during the last five years and their ratio to patients treated.

TABLE No. 58.

	-	-	Year					No. of In-Patients	No. of Deaths	Percentage
1940			 	 				104,475	6,822	6.53
1941		***	 	 	***		***	93,029	6,943	7.46
1942			 	 				95,587	7,248	7.59
943			 	 			***	87,326	5,860	6 71
944			 	 		***		94,895	5,678	5.99

The following table shows the number of operations and X-Ray examinations.

TABLE No. 59.

	Year		In-Patient Operations	Out-Patient Operations	Total	X-Rey Examinations
1940	 	 	 37,815	80,198	118,013	47,088
1941	 	 	 30,890	81,781	112,671	30,226
1942	 	 	 33,007	79,024	112,031	26,746
1943	 	 	 32,110	71,096	103,206	19,695
1944	 	 	 32,174	73,622	105,796	21,039

VENEREAL DISEASES

The following table shows the number of prostitutes treated in the general and district hospitals during the year 1944.

TABLE No. 60.

		Numbe
Gonorrhoea		 36
Syphilis		 20
Other diseases		 -
	TOTAL	 56

The following table shows the total number of patients treated from the venereal diseases in the general and district hospitals during the year 1944.

TABLE No. 61.

In-Patient Section			Out-Patient Section			
Gonorrhosa	Syphilis	Total	Gonorrhœa	Syphilis	Total	
231	184	415	767	6,656	7,423	

Chapter XI .- OPHTHALMIC HOSPITALS

New Units:

During this year, two new ophthalmic units were established in Zawyet el Na'ora and Itsa general hospitals, and two permanent hospitals in tents at Sennoures and Manfalout; thus bringing the total of ophthalmic units to 98, of which 83 are permanent and 15 travelling.

The extension of ophthalmic treatment centres to all parts of the country is being carried out gradually according to a pre-arranged plan and to the funds that are made available.

Clinical Work:

The following is a summary of the clinical work carried out during 1944 as comparedwith that of 1943 —

TABLE No. 62.

			1943		1943	1944	
New patients					1,048,307 25,460 205,321 6,086,272	1,120,901 32,790 244,026 6,94,535	

The number of patients who were found blind in one or both eyes, excluding cases of cataract causing blindness, was 47,768, i.e. 3.7% of the total patients examined at the ophthalmic hospitals.

By adding the cataract cases causing blindness, the percentage becomes 3.9.

Acute ophthalmia represents 82% of the causes of blindness. The gonococcus is still the predominant etiological factor of acute ophthalmias; its percentage to total microorganisms being 36.

Ages of Patients:

Of a total of 1,120,901 new patients treated, 91,192 or 8.1% were under one year of age; 362,920 or 32.4% between one and 15 years; 280,666 or 25.04% between 15 and 30; and 643,586 or 57.4% between one and thirty years of age. This shows that the masses appreciate the importance of ophthalmic treatment for infants, children and youths.

Ophthalmic School Chinics

Ophthalmic clinics are at the present time provided in 36 Government primary schools in Cairo and in the provinces. Of a total of 19,021 pupils examined, 96.6% were found suffering from trachoma in its various stages. 19.2% of these were having trachoma in its most active stages, namely trachoma I and II; and as a result of ophthalmic treatment, this letter percentage fell to about 7.5.

It is noteworthy that a more accurate estimate of the prevalence of tra home among pupils can be obtained in Government prima y schools where examination and treatment are carried out regularly on pupils kept under the constant supervision and care of the treating medical officers.

Besides this, pupils of 75 other schools were examined and treated by the medical officers of the permanent or travelling ophthalmic hospitals in the localities where these units existed.

Other Services :-

Ophthalmologists of this Ministry pay regular visits to other institutes and hospitals, the chief of whi h are:—

Leprosy Colony and Hospital at Abu Zaabal and Suyoufia.

Mental Hospitals at Abbassia and Khanka

Children Preventorium at Giza.

Children Preventorium at Zeitoun.

Children Dispensary at Mataria.

Fever Hospitals at Abbassia and Embaba.

Convalescence Home and Children Preventorium at Marg.

From time to time, ophthalmologists are also s at to Arish, Tor and the Oases for the examination and treatment of the inhabitants.

During pilgrimage an ophthalmologist a companies the Medical Mission which is sent to Hedjaz to examine and treat pilgrims of all nationalities every year gratuitously. In this year, two ophthalmologists were sent, one to Mecca and the other to Medina. besides the Director of the Ophthalmic Hospitals who presided over the Medical Mission,

Facilities are also given to the ophthalmologists of o her ministries to attend the ophthalmic Lospitals to increase their knowledge and plattice in ophthalmology and in ophthalmic surgical technique.

Experienced ophthalmologists are also detail d to ophthalmic units in other ministries and departments. A total of 153 ophthalmologists have been detailed to such units since the creation of the Ophthalmic Section until the end of 1944. This number does not include other ophthalmologists who resigned from the Opht almic section and might have joined such units.

Assistant midwives and female health visitors are trained at ophthalmic hospitals in ophthalmic treatment so that they may be able to deal with cases of ophthalmias and other eye diseases.

Accommodation:

The number of beds in all ophthalmic units was 2,255. Steps are taken to provide the inpatient departments of ophthalmic hospitals with more bods wherever space is available.

Post-Graduate Course of Ophthalmology:

Of 9 medical officers examined in April 1944 for the Diploma of Ophthalmology (Part I D.O.Ms.), 4 passed; and of 3 examined in October 1944, one passed.

No medical officers entered for the final examination held in May 1944; 3 medical officers at in November 1944 and two passed.

Experiments with Penicillin:

Penicillin was administered intramuscularly in cases of acute ophthalmias of various types, gonococcal ophthalmia in particular. Four hourly injections were given by day and night. Calculation of dosage was based on a dose of 2200 units per kilogramme of bodyweight in 24 hours. Specimens for bacteriological examination were taken hourly during the first four hours and two hourly for the rest of the treatment. Cultures were taken when negative results were obtained.

In all cases, numbering 58, gonococci disappeared from the conjunctival discharge within 3-5 hours from the first injection. In one case, the gonococci showed great resistance and did not disappear until after 10 hours. Generally speaking, all cases treated by this method were cured, but the method is apparently tedious and impracticable, particularly so where large numbers of patients are concerned as it is the case in ophthalmic hospitals during summer.

By extending the interval between injections and doubling the dose the following findings were observed

The interval between one injection and another should not exceed 11 hours, and the injections should be maintained for at least two days. In other words, the patient should receive at least four injections with intervals of less than 11 hours in between, otherwise the bacilli will reappear, and relapse will occur. Complicated cases required longer periods of treatment.

Penicillin has a definite effect on the pneumococcus and its resulting ophthalmias. In Koch Weeks infections, however, the case is apt to improve clinically but the bacilli do not disappear and patients should be given sulphathiazol before discharge to prevent them from becoming carriers of the disease and a source of infection to others.

Penicillin has been indicated for use by all hospitals in the treatment of acute cases where loss of sight or life is threatened.

Sulphonamide Compounds:

Sulphonamide compounds are now in general use in all ophthalmic units for the treatment of acute inflammations affecting the different parts of the eye.

These were indicated in all acute ophth limins in both children and adults with extremely good results. They were also given in trachon atous corneal complications whether infiltration, ulceration or pannus, and proved to be a prominent factor in early recovery.

Sulphonamide tablets and compounds were most effective in arresting inflammation and preventing infection in cases of dacryocystitis and panophthalmitis, particularly after cataract operations where perforation or infection is set in.

Good results were also obtained in cases of orbital cellulitis, particularly in tenonitis, after squint operations, acute inflammation of the lacrimal gland and in certain types of keratitis and abcess of cornea and dentritic ulcer.

Sulphonamide compounds were also used in ointment form in cases of suppurative blepharitis and multiple styes, and in powder form in wounds of lacrymal sacs and lids with equally good results.

Ophthalmie Library:

There is a circulating ophthalmic library in Rod el Farag Ophthalmic Hospital for the benefit of all medical officers in ophthalmic units. It is supplied with old and new ophthalmic literature and placed at the disposal of all doctors with the object of keeping them thoroughly acquainted with recent advances and new progress in the ophthalmic field. There are 228 volumes in the library which are louned on request. Important books or those which are indispensable to recent medical officers are always provided in several copies to facilitate their circulation.

Modern Apparatus for Ophthalmic Hospitals:

The Ministry aims to provide Ophthalmic units with modern apparatus and instruments, but in view of the present war circumstances it was not possible to do so.

Chapter XII.—PHARMACIES

1.—Private Pharmacies:

The Ministry granted this year four permits for new pharmacies and agreed to the transfer of ownership of eleven pharmacies from non pharmacists to qualified pharmacists. This brings the total number of pharmacies in operation in Egypt to 487.

2 .- Cairo Night Service Pharmacies.

Of the four night service pharmacies in operation in Cairo during last year, one ceased to give this service for lack of pharmacists, leaving three in operation. These dispensed 7,367 prescriptions during the night in addition to patented medicines which are dispensed without prescriptions.

3 .- Simple Drug Stores :

Eight permits were granted this year by the Ministry (1 in Cairo, 2 in Kaliubia, 1 in Menoufia, 2 in Sharkia, 1 in Qena and 1 in Gi ga).

4 .- Trading in Medicinal Plants :

Four permits were granted this year (three in Cairo and one in Alexandria).

5. - Medical Practitioners authorised to prepare drugs in their Clinics for their private patients

These were as follows:-

- 2 in Kaliubia Province.
- 2 , Menoufia ,
- 1 " Behera
- 1 ,, Sharkia ,
- 1 ,, Dakahlia ,,
- 5 ,, Gharbia ,,
- 2 ,, Giza ,,
- 1 ,, Beni-Suef ,
- 1 " Minia
- 1 ,, Qena
- 1 ,, Girga

6 .- Schedule IV Drug Stores :

5 permits were granted this year for Schedule IV Drug Stores (3 in Cairo, 1 in Minia and 1 in Menor is).

7 .- Schedules 1 and 2 Drug Stores:

Nine permits were granted this year as follows:-

6 in Cairo, 2 in Alexandria and 1 in Giza. One permit was withdrawn.

8 .- Registration of Egyptian Specialities:

A total of 122 permits for the preparation and sale of Egyptian specialities were granted this year. 109 specialities were refused registration. This brings the total registered Egyptian specialities to 1,155.

9.—Pharmaceutical Laboratories:

Eight new pharmaceutical laboratories were authorised in Cairo this year and two were closed down.

10 .- Violation of the Law:

A total of 384 contraventions were brought by the Ministry before the courts. Of these, 148 were for trading in and keeping poisonous drugs without permits, 25 for practising pharmacy without authorisation and 211 were against pharmacists and ssistant pharmacists for contravening the law.

11 .- A jents:

During the year 13 permits were granted by the Ministry to agents for trading in drugs. These were 7 in Cairo and 6 in Alexandria.

Part IV.-ENDEMIC DISEAS ES

Chapter XIII.—ANCYLOSTOMA AND BILHARZIA

New Units:

During this year, wo new units were inaugurated namely :-

- (1) A Branch of Beni-Mazar District Hospital, inaugurated on November 18, 19:
- (2) A Branch of Girga District Hospital inaugurated on December 2, 1944.

The total number of units thus reached 94.

N.B.—In spite of the inauguration of the above-mentioned two new units, the total number of Bilharzia and Ancylostoma units remained the same as in 1943, the two units attached to Minia Provincial Council, at Minia and Maghagha having been closed d wn.

Number of Patients Treated:

In the following table the number of new patients, injections, and anthelmintic doses are shown as compa ed with corresponding numbers of the previous year (1943).

TABLE No. 43

				1943	1944
Number of new patients	 	 		1,053.474	1,043,218
" injections	 	 		3,527 622	3,423,332
Anthelmintic doses	 	 	***	450,088	283 340

The deficiency in the number of new patients this year is attributed to the engagement of 11 units in the Bilharzia treatment campaign in Fayoum Province.

Treatment of Pupils:

Pupils examined	 	 	 			51 864
Number of B lharzia nfected						13,819
" Ancylostoma infected						
,. Ascaris infected						11,782
Anthelmintic doses administered						11.170
Anti-Bilharzia injections given	 ***	 ***	 	***	***	8,619

Treatment of Territorial Force

1,569 soldiers were examined this year.

814 ,, positive for Bilharzia.

469 ,, ,, ,, Ancylostoms.

35,013 Anti Bilharzia injections given.

434 Anthelmintic doses administered.

Units undertaking Treatment in Neighbouring Localities.

Bilharzia and Ancy. units were directed to undertake treatment in neighbouring localities during intervals when attendance at their headquarters is at its lowest, especially during winter. Owing, however, to transport difficulties and lack of medical officers, this arrangement was only carried out by No. 9 Ancylostoma Unit at Abu-Kebir which undertook the treatment of the inhabitants of the Inspectorate of the Royal Khassa at

Faridia village.

Treatment in In-Patient Sections:

Last year, 4 beds were secured in each of the following hospitals for the treatment of Endemic Diseases patients whose condition does not positive treatment in out-patient Sections:—

- (1) At Dikernis, Menouf, Ayat, Aga and Rosetta District Hospitals.
- (2) At Damietta, Port Said, Kaliub, Mansoura, Zagazig, Shebin el Kom and Assiut General Hospitals.

More beds have been secured this year as follows :-

- 4 beds in each of Benha, Fayoum and Aswan General Hospitals.
- 2 beds in Zawyet el Na'oura District Hospital.

The number of hospitals providing beds for In-Patient trea ment of Endemic Diseases is 16 with a total of 62 beds reserved for the purpose:—

The number of in-pat	ients	 	555
Cases cured		 	288
Cases improved		 	220

Co-operation of Bilh. and Ancy. Units and Out-Patient Sections in Hospitals:

Two results have been achieved by the co-operation between Bilh. units and outpatient sections in Hospitals:—

- (1) Relief of congestion in out-patient Section. All patients must first report to the Ancylostoma branches for examination and only those requiring special treatment are referred to the out-patient departments.
- (2) Owing to shortage of M.Os., 2nd M.Os. of district general hospitals were engaged in Ancylostoma work in branches which had no M.Os. appointed for them.

Treatment of Pellagra:

Last year, dried dates and jews mallow, which are rich in nicotinic acid, were used as a substitute for yeast pewder-then in short supply-in the treatment of Pellagra. As the results were not encouraging, the usual treatment with yeast and eggs was reverted to.

Regulations for Endemic Diseases Hospitals:

Endemic diseases technical instructions were first published in book form in 1926t onew edition has since been published including new technique in diagnosis and treatmen. Af these diseases. The new book is divided into four sections:—

- (1) Working hours, duties of staff, admission and attendance of patients, recording examination and treatment results, examination and treatment of pupils.
- (2) Procedure of examination of specimens.
- (3) Clinical examination of patients with special consideration to endemic diseases characteristics.
- (4) Details of parasites treated and drugs used in treatment. Precautions against drug intoxication and methods of treatment thereof. Also treatment of deficiency diseases.

The book was published in 1944 and distributed to all Bilharzia and Ancylostoma units, departments and sections of this Ministry, Public Health Inspectorates and all interested medical Authorities in other Ministries and Departments.

Drug Intoxication:

Four fatal cases of drug intoxication were recorded this year: two from tartar emetic and two from oil of chenopodium. Two cases of Carbon tetrachloride intoxication were cured.

Treatment Campaign in Fayoum:

- 1. Reference was made in last year's report to the concentration of treatment in one locality at a time which was necessitated by lack of means of transport. According to the new method, the treating unit arrives at the village with an adequate staff to carry out the wholesale examination and treatment of all the population in the minimum of time (five weeks on the assumption that a complete tartar emetic course of treatment may require three additional injections over and above the regular number of 12 injections).
- 2. As the strength of the treating unit is obviously governed by the number of the inhabitants of the village, and as this varies considerably in one village from another (between 500 and 10,000), it was decided to undertake the wholesale examination and treatment of a large village with a view to studying the practical application of the method. Miniet el Hait village, with a population of 9,353 inhabitants was selected for the purpose. A unit composed of four medical officers undertook the examination and treatment. Work was started on 12th March and completed on 24th April during which period a total of 3,645 infected persons were treated.

Meanwhile, another experiment was carried out in Hawaret el Maktaa village, with a population of 4,761 inhabitants. Treatment of Bilharzia with intramuscular Stiboph n injections was carried out by specially trained laboratory assistants to overcome the difficulty of shortage of medical officers. Treatment of the 1,788 infected persons was started on 2nd July and completed on 1st August. Four laboratory assistants were engaged under the supervision of a medical officer.

In the light of these experiments, it was possible to lay down all the necessary details regarding the composition of the units, reception of patients, recording of names, summoning of infected persons and methods of examination and treatment. This new method has since been adopted in other localities by 10 units which have joined the campaign. The following is a brief statement of the work done during 1944:—

TABLE No. 64 SHOWING THE WORK ACCOMPLISHED DURING 1944

-			
	Unit	Village	Population
Bilh.	Unit No. 4	Minyet el Heit	9,352 2,115 1,753 1,165 4,457
"	" " 5	P1 D.:3	3,935
	, , 7	Kalamshah El Hamdia	7,282 1,226
"	" " 11	El Azab Shedmoh	2,179 3,955
	,, ,, 14	Hawaret Adlan El Lahon	4,534 5,237
Bilh.	Hospital No. 14	Totoma	8,595 5,588 4,761
	,, ,, 19	Demeshkein	[3,021 9,635
"	,, 25 ,, 28	Kalhana and Minshat Ramsi	2,429
	,, ,, 28	Defenou	5,688
		MILES TO MILES	1601 °61 96 949
		TOTAL	86,242

Chapter XIV.-MALARIA

The incidence of malaria is still higher this year than in the previous year, the general ratio being 20.1% as against 16.9% last year. This is attributable to the increased activities of the malaria units on one hand and the gambia epidemic in Upper Egypt during the past two years on the other. This will be dealt with in a later chapter.

Malaria Units:

The permanent stations remained the same in number as in 1942, namely 10. The Station in Giza was attached to the Gambia Eradication Section. A new permanent malaria station was provided in each of Biala (instead of Teh el Baroud) and the Dakhla and Kharga Oases. The travelling stations were also the same in number as in the previous year. The quantities of drugs distributed this year increased in proportion with the increased number of patients and units.

Table No. 65 shows the distribution of the permanent and travelling stations as well as outposts during the year.

Blood Specimens:

A total of 75,845 blood specimens were taken from Lower and Upper Egypt during the year for examination. Of these 15,289 were returned positive for malaria (new or relapses) giving a ratio of 20.1%. Tables Nos. 66,67 and 68 show the distribution of these cases according to the three categories:—

- (a) Patients attending Malaria Units,
- (b) Suspected persons in their homes, and
- (c) Patients undergoing general examination in Lower Egypt, Upper Egypt and in both. It is noted that the ratio is highest in the first category and lowest in the last; those attending the malaria stations are almost always suffering from malaria.

New Cases and Relapses :

Table No. 68 shows that 2,502 or 16.3% of all positive cases were new and 12,787 were relapses.

In addition, the Fouad I Institute and Hospital for Tropical Diseases examined such blood samples as were sent from different parts of the country. Table No. 69 gives the distribution of these specimens according to localities and the results of examination.

Age Distribution of Malaria:

Table No. 70 gives the general ratio of malaria distributed according to age. Infections in children are new hence the ratio is usually lower than other age groups.

Types of Malaria:

Table No.71 gives the incidence of the three types of malaria (benign,malignant and quartan) in Lower Egypt and the Canal and Suez Governorates, and in Upper Egypt, (that part under the control of the Malaria Section) and Frontiers Districts and percentage to total positive cases.

Monthly Incidence of Malaria:

Tables Nos. 72 and 73 give the monthly incidence of malaria. The former deals with Lower Egypt and the Canal and Suez Governorates; and the latter with Upper Egypt and Frontiers Districts. The incidence of the benign type reached its peak between the months of July and October and that of the malignant type between September and December.

Malaria Cases recorded in Governorates and Provinces during 1943 and 1944:

Table No. 74 shows that the number of cases recorded this year was 239,548 cases more than the previous year. There were 540 more deaths from malaria than in 1943. This is attributable to the spread of malaria in the Southern Provinces caused by the presence of anopheline gambia.

Search for Mosquito Breeding Places:

Malaria units adopted the same methods as last year in search for and detection of mosquito breeding places. In est muting the dan er of these breeding places, the same considerations in so far as it concerns malaria and bilharzia were given this year as in the previous year. Such breeding places as were considered dange ous were reported to the Village Affairs Dept. and other Departments concerned for extermination. Tables Nos. 75 and 76 demonstrate the activities of these units.

Control Measures:

The same measures adopted last year were taken this year. A total of 244,682 kgs. of Paris Green and 145,258 kgs. of Mazut were used this year as shown in table No. 77. Permanent control measures were undertaken by the Village Affairs Department of this Ministry against its budget. According to table No. 78, s me 40 ponds of an area of 30 feddans one karat and one sahm were filled in at a total cost of L.E. 17,598.830 mills.

Warnings and Contraventions:

Law No. 1 of 1926 was enforced where necessary. Warnings were served on offender to remove the cause of offence and contraventions were drawn up for failing to do so. Sentences were given in some cases ordering the Village Affairs Department to remove the cause of the offence and debit the proprietors with the cost.

Table No. 79 gives the number of warnings served and contraventions drawn up

in Lower and Upper Egypt.

Filariasis (Elephantiasis):

Cases of filariasis were discovered in Fareskour town, Dakahlia Province and Belbeis town, Sharkia Province. Of 368 blood stains taken from the former, one was returned positive or a ratio of 0.27 %. The only case taken from the latter town proved positive for filariasis.

Drugs and Treatment:

Drugs for treatment were distributed after microscopical examination. The method of treatment this year was the same as in previous years. Table No. 80 gives the distribution of these drugs in Lower and Upper Egypt.

Malaria Law No. 1 of 1926 and Rice and Sugarcane Cultivations:

There was no need this year for the application of the law to new localities. Restriction of rice cultivation was effected by Military Orders. Military Order No. 472 was published to this effect.

Experiments on spraying water intakes of rice cultivations with Paris Green were suspended. No ministerial arrêtés were issued prohibiting rice cultivation within any locality.

Military Orders:

Military Order No. 472 was issued on March 8, 1944, restricting rice cultivations thus enabling the control measures to be taken against malaria mosqui o carriers, the anopheline gambia in particular. This includes extermination of breeding places. Instructions were circulated for strict enforcement of he order.

Military Order No. 505 was also published in 1944 providing for the control measures against the spread northwards of the malaria epidemic which was caused by the gambia mosquito.

Article 3 of the order prohibi s the sale of d ugs issued gratis to patients for treatment.

Article 4 provides for the punishment of offenders and seizure of drugs.

Another Military Order No. 549 was published on December 19, 1944, regarding the possession of pyreth in plants and extracts used in insecticides and trading therein. This provides that the Minist y of Public Health should be notified of the quantities of pyrethrin plant—dri d, ground, extracted or prepared—which may be in the possession of any person. It also provides that the Ministry of Agriculture be notified of any areas in which pyrethrin is cultivated, and that the whole crop be handed to that Ministry at a fixed price. Article 6 prohibits the import of any substance containing pyrethrin without a permit from the Ministry of Public Health.

Ministerial Arrêtés:

No Ministerial Arrêtés were issued regarding the cultivation of acquatic plantes Military Order No. 155 of January 13, 1941 dealing with malaria control measures in localities occupied by troops being considered adequate for the purpose.

Propaganda:

Propaganda was carried out throughout the year with the cooperation of the Health Propaganda Section. The object was to instruct the population in the symptoms of malaria, the cause of its propagation, the means of infection and methods of treatment and protection.

Complaints:

All complaints reaching the Ministry or units received careful consideration and the causes of complaint were removed.

	T	ABLE No. 65	
District	Permanent Station	Travelling Station	Outpost
Behera	A Edku, Kafr el Dawar	-Lower Egypt [Kafr el Dawar (3)] (not yet started)	El Montazah, Bouselli, El Nazlia, Khorshed.
Gharbia	(Fowa Kafr el Sheik Biala. (in stead of Teh el Baroud.)		Shabe, Kallin.
Dakahlia	Faraskour	Dekernes (4)	Kafr Abu Nasir.
Sharkia	Abou Kebir (not ye started).	Belbeis (2)	El Faridia. Tel El Kebir, Farcukia, Anshas,
Canal			Abou Sower, Nafisha, Dabis, En Gosen, Sa abiom, Abou Soultan, Port-Said, Fl Qantara El Shalloufa, El Kobri.
Kaliubia	Suez	Toukh (6)	(B nha, Shebin El Kanatir, Kaliub, Shoubra El Khima.
Menousia	Quesna (not yet started)	-	-
	В.	-Upper Egypt.	
Fayoum	Fayoum	Abshaway, (1)	-
Western Desert	Wadi El Natroun S wa (not yet started		-
Frontiers Govern.	Dakhla and Khar		Baharia
Southern Desert			The state of the s

TABLE NO. 66.—Showing Distribution of Blood Films examined for malaria in LWER EGYPT AND THE GOVERNORATES OF CANAL AND SUEZ, DURING THE YEAR 1944

	No. of	Positive				
Category	Specimens	New	Relapses	Total	%	
1. Patients vi iting S ations and their B and e	32,834	2,098	9,992	12,090	36-8	
resid n e	9,943 18,858	213 39	718 916	961 9.5	9 6 5 06	
GRAND TOTAL	61,635	2,380	11,626	14,006	22-7	

Table No. 67.—Showing Distribution of Blood films examined for malaria in Upper Egypt and the Southern and Western Desert Governorates Excluding Provinces Under Control of Gambia E.S.

	No. of		Posi	ive	
Category	Specimens	New	Relaptes	Total	%
1. Pa ients vi iting Stations and their B an hos	3,042	46	406	452	14.8
residen e	2 806	3	57	60	2.1
8. General examination	8,362	73	698	771	9.3
GRAND TOTAL	14,210	122	1,161	1,281	9.0

TABLE No.68.—Showing General Distribution of Blood films examined for Malaria in Egypt
(Lower and Upper Egypt, Canal and Frontier Zone)

Excluding Provinces Under Control of G.E.S.

	No. of	-	Posit	ive	
Category	Specimens	New	Relapses	Total	%
Bau hes	3 5,876	2,144	10,398	12,542	34.9
Re i en e	12,749	246	775	1,021	8.00
General examination	27,220	112	1,614	1,726	6.3
GRAND TOTAL	75,845	2,502	12,787	15,289	20.1

Table No. 69 - Showing number of Specimens examined for Malabia by Research Institute during the Year 1944

Governorate c · Province	From Hospi	tals and Rese	arch Institute	From	Ancylostom	Units
Governorate C. Frovince	No of Spec.	Positive		No of opec.	Positive	96
Alexandria	533	3	0.5	-	-	-
Dakhla Oasis	2,844	334	11.7	-	-	-
Baharia Oasis	535	34	6.3	-	-	-
Ismailia	2,065	86	4.1	-	-	-
Suez	-	_	-	1,042	460	44.1
Wadi el Natroun	65	2	3.07	-	-	-
The Hospitals	11,769	2,760	23.4	-	-	-
Malaria Sec	1	1	100	-	-	-
Research Ins	1,586	614	38.6	-	-	-
Other Places	27	13	48.1	-	-	4
Behera	3,491	106	3.03	-	-	-
Gharbia	1,605	256	15.2	9,328	3,245	34.7
Dakahlia	605	5	0.8	-	-	-
Kal'ubia	704	17	2.4	-	-	-
Giza	297	24	8.08	-	-	-
Fayoum	1,898	45	2.3	5,569	471	8.4
Beni-Suef	76	7	9.2	-	-	-
dinia	306	34	11.1	-	-	-
Ass'ut	7,544	1,342	17.9	-	-	-
lirga	4,939	861	17.8	-	-	DE LA
Qena	44,700	10,009	22.6	-	-	-
swan	32,391	4,471	13.8	-	-	-
TOTAL	119,507	21,167	17.7	15,939	4,176	26,1

TABLE NO. 70.—Showing Malaria Cases in Dipperent Age Groups in Lower Egypt, the Canal and Suez Governorates. UPPER EGYPT AND FRONTIERS ZONE DURING 1944.

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	Ohild	Children under 1 year	ar	Pron	From 1 to 15 years	ars	Fron	From 16 to 35 years	5	V	Above 36 years	
Governorate er Frevinee	No. of Sperimens	Positive	Ratio %	No. of Specimens	Positive	Ratio %	No. of Specimens	Positive	Ratio %	No. of Specimens	Positive	Ratio %
Behera	495	77	15.5		1,475	22.7	3,414	1,153	33.8	1.827		73.8
Gharbia	429	89	15.8		2,126	34,7	5,629	1,:97	31.8	2,726		29.09
Dakshia	352	35	9.05		473	13,5	3,476	3-66	28.6	2,230		800.97
Grand	GGI FOR	90	0.7		100	4,4	2.025	183	93.0	1,044		8.8
Sharks	101	39	41.2	2,966	930	4,4	3,698	1,052	28.4	2.31	499	21.5
:	22	2	23.6		345	27,1	1,097	223	20.3	100		21.2
TOTAL	2, 648	223	1.11	25, 76	12.58	28 8, 8	22,549	5,493	22.33	1,1400	2,706	95
Wettern Desert	10	60	30		101	16,6	77	12	15.5	12	7	7.4
Southern Desert	9	1 2	16.5	2,709	345	11,6	3,240	274	8.4	1,0 2	139	3.8
Toral	98	9	95	7,422	680	8,6	4,918	428	8.6	1,814	169	. O

Table No. 71.—Showing No. of Cases according to Malaria Species in Lower Forti and the Canal and Suez Governorates AND IN UPPER EGYPT AND THE SOUTHERN AND WESTERN DESERT GOVERNORATES DURING 19:4

	1				00	8'
	38	1111	111	1	0,3	•
QUARTAN MALARIA	Rolapses	1111	111	1	61 00	91
QUARTAN	Now	1111	111	1	111	1
	No.	1111	111	1	64 00	2
	Ratio to po-it.	15.4 32.06 14.8 37.2	2.5	23.2	48.2 46.3 28.8	39,5
MALIONANT TERTIAN	Relapses	478 1,221 300 110	357	2,713	285 142	435
MALIONAN	New	47 313 8 10	1	542	679	t
	No.	1,534 308 120	518	3,255	352 142	208
	Ratio to posit.	84.5 7. 85.1 62.7	79.4 88 3	26.05	53.4 69.6	59,6
TERTIAN	Relapses	લેલેને	1,586	8,913	376	716
BENION TERTIAN	New	329 876 33 44	416	1,838	15 30 4	49
	No.	2,871 3,250 1,771 202	2,002	10,751	15 406 344	765
Ratio	38	27.8 31.5 21.7 6.1	23.6	25.2	14.5 8.4 9.8	6
Total	posite,	3,396 4,784 2,079 322 960	. 2,	14,006	29 760 494	1,283
Total of	specimens	12,206 15,184 9,362 5,206	2,63	61,635	8,985 5,024	14,210
		1111	111	1	111	1
	2	1111			111	
	rnors	1111			111	!
	Gora	1111		TOTAL	111	TOTAL
	Province or Governorase	1111	111	H	stroum lesert	H
	Provi				I Na	
		Behera Gharbia Dakahlia Canal	Sharkia Kaliubia		Wadi el Natroum Fayoum Southern Desert	
		HODO!	200		E E	

TABLE NO. 72.—Showing Monthly Distribution of Malaria Cases according to Species in Lower Egypt and the Canal and Suez Governorates During 1944

						-										THE PERSON NAMED IN						
					1			Total	-	Total of		BERTON MALARIA	IALABIA			Malionany Malania	MALABITA			QUARTAN MALARIA	MALARIA	
			Month	4				Specimens		Cases	И о.	New	Relapses	Ratio %	No.	New	Relapses	Ratio %	No.	New .	Relapses	Ratio %
				1	18	148			0 0	20%	202	A N	95.0	K-18	036	2	066	20				
January	:	:	:	:	:	:		Since	0,700	000	197	3 -	190	9.16	686	5 0	000	6.10				
February	:	:	:	:					261,62	946	161	96	187	0.0	207	9 61	77	1.0	1		1	1
March	:	:	:		:		:	-	600	306	145	3 6	788	9 00	3 8	2 2	48	6-	1 1			
April	1		:		:	:	:		1,000 H	0000	793	169	633	14.1	9 9	3 00	96	2.0				
мау	:	:	:		:				5 714	1 197	974	157	817	36.8	993	196	26	6		1	_ 1	1
July	: :	: :	: :	: :				7	4	1,681	1,493	172	1,321	25.8	188	13	175	. 63	1	-	1	1
ıst	:	:	:	:		:	:	1		2,290	2,000	189	1,811	27.3	290	36	254	3.9	1	1	1	1
September	:	:	:	:		:			7,7.8	2,886	2,321	619	1,702	30.7	365	108	457	. 7.1	1	1	i i	1
October	:	:	:	:					6,157	2,232	1,598	241	1,357	25.9	631	128	909	10.2	1	1	1	1
November	:	:	:		-				2,768	938	536	101	435	19.3	349	83	316	12.2	1	1	1	1
December	1	i	:	:	-			- 36	2,124	280	284	40	244	13.3	296	12	284	13.9	1	1	1	1
			TOTAL					61,635		14,006	10,751	1,838	8,913	17.4	69,00	542	2,713	10.2	1	1		11

TABLE NO. 72-Showing Malaria Cases according to Species in Upper Egypt and the Southern and Western Desert Governorates, distributed

THROUGHOUT THE MONTHS OF THE YEAR 1944

INTON MALARIA MALIGNANT MALABIA QUARTAN MALAHIA	ow Relapses % No. New Relapses % No. New Relapses %	1 1 0 0 ST 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	21 2.03 14 1 13 1.3 1	2.3	7 61 4.6 20 7 13 1.3	8 33 4.4 12 5 7 1.3	7 43 4.4 21 1 20 1.8	4 52 4.8	2 59 5.7 17 2 15 1.6	2 - 48 9.3 29 12 17 5.4	8 153 12.7 107 20 87 8.4	3 110 5.3 141 11 130 6.6 1 - 1 0.004	5 72 7.4 91 9 82 8.8 8 — 8 0.7	40 N. F. F. B. D. P.
Of BENION MALAHIA	No. New	13 9	2 12	92 54 1 53	88 68 7 61	53 41 8 33	71 50 7 43	56 56 4 52	78 61 2 59		161 8	113 3	77 5	NGK A0
Total of Total of	Specimens Postuve Cases	874	1,032	1,642	1,453	816	1,126	1,156	1,052	537	1,263 268	2,125 255	1,032 176	14 210 1 983
Mondi	1917A. IV.	3 snuary		Иатоћ	April	11ay	June	July	August	September	October	November	December	TOTAL

Table No. 74.—Showing Number of Malaria Cases and Deaths notified during the Years 1943 And 1944

GOVERNOBATE OB PROVINCE	. 19	43	19	144	Dif	Terence
GOTALROBALE OF EBUTION	Cases	Deaths	Cases	Deaths	Cases	Deaths
			i garaf			
Cairo	575	30	743	22	+ 159	- 8
Alexandria	991	25	458	22	_ 533	- 3
Ismailia	440	6	178	1	- 262	- 5
Port-Said	149	1	94	1	- 55	00
Suez	471	39	346	8	- 125	- 31
Damietta	22	1	8	-	14	-
Sinai and The Red Sea	28	-	240	-	+ 212	00
Southern Desert	246	1	16	_	— 230	61
Western ,,	12	-	105	_	+ 93	-
Behera	713	3	536	2	- 177	- 1
Dakahlia	60	-	121	4	+ 61	+ 4
Gharbia	223	4	189	2	- 34	_ 2
Menoufia	47	1	25	2	_ 22	+ 1
Sharkia	519	3	497	1	- 22	- 2
Kaliubia	1,395	_	889	2	- 506	+ 2
Giza	96	2	121	-	+ 25	- 2
Beni-Suef	75	3	66	3	- 9	-
Fayoum	793	1	513	6	- 280	+ 5
Mnia	95	1	105	2	+ 10	- 1
Aisiut	252	2	36,961	6	+ 36,709	+ 4
Girga	214	6	19,281	5	+ 19,06	- 1
Qena	5,461	660	164,463	1,396	+ 159,000	+ 736
Aswan	3,633	553	30,132	396	+ 26,479	157
TOTAL	16,530	1,341	256,078	1,881	+239,548	+ 540

TABLE NO. 75-SHOWING NO. OF VILLAGES INSPECTED AND BIRKAS HARBOURING RITHER LARVAE OF ANOPHELES, CULEX PIPIENS AND BILHARZIAL SNAILS IN LOWER EGYPT AND CANAL ZONE AND IN UPPER EGYPT AND THE FRONTER ZONE DURING YEAR 1944.

thous.	9000	Rate %	1	100	118	1	2.2	0.54	1	20.06	111	25
Birkas harbour	CulexPipiene	No.	1	9	119	1	-	184	1	191	13	52
-		Rate %	1	11	2.3	1	11	1.3	1	9.1	Hr	1
Birkss harb.	Bilharr. Spails	No.	1	11	1 8	1	11	10	1	2	111	1
		RPte	1	11	13,9	1	15,7	80	2,3	6,4	111	00
	Other Species	No.	1	11	9 1	-1	11	63	1	73	411	4
Larvae	-	Rate %	1	11	111	1	100	80,10	1	10	111	8
opheles	Sergenti	No.	1	11	111	1	11	45	1	9	800	88
uring Ar	dor	Rate %	1	11	16	32	20	2.14	65.03	2.9	111	33
Birkas harbouring Anopheles Larvae	Multicolor	No.	1	11	-	14		44	-	159	800	2
Bir	- sp.	Rate %	1	100	72.09 6.2 100	6.02	20 31.6	18	2.3	2.12	111	32 6
	Pharoen.	No.	1	9 6	31	6	19	114	1	241	13	12
free	78.0	Rte %	100	269-1	27.8 25 100	23	08	70-2	2.06	99	111	15
Birkas free	of larvae	No.	12	13	12 49	10	13	539	68	23	r-r-03	E
	No. of Birkas	eramined	12	52	43 16 6	43	19	767	\$	886	13	99
-	-	petoedeu	7	30 02	18 8 %	17	4 16	9	62	III	13 10 7	30
-	42	3	:	11	111	:	11	:	:	1	111	1
			:	11	111	:	11	:	:	:	111	1
			. :	::	111	:	11	hes	1	77	114	T.
	g		. ;	::	111	:	11	its Branches	:	TOTAL	111	TOTAL
	Station		4	::	, ::	;	::	its B	i		111	
			Эажа		Sheik 	:	. : :	bus	.:	* 115	y	377
		1	el 1	Faraskour Dekernis	Kafr el Sheikh Biala De cuk	49	ia.s	Ismailia and	:		um la c	
			Kafr el Dawar	Fara	Kafr el S Biala De ccuk	Toukh	An has Belbeis	Isma	Suez		Fayoum Abshi way Dakhla Oasis	
	at a		:			:	~~	1	:			
	Partion		. :	:	1	:	1	1	:		 Desert	
	ob w		- !		1	:	1	1			 Dese	
	Province or Gevernorate		Behera	Dakahlia	Gharbia	Kaliubia	Sharkis	Canal	Suez		Fayoum Scuthern Desert	

TABLE NO. 76.—SHOWING NO. OF EXAMINATIONS OF DIFFERENT BREEDING PLACES IN LOWER EGYPT AND CANAL ZONE AND IN UPPER EGYPT

AND FRONTIER ZONE DURING THE YEAR 1944

			1 10	, ,	
Semas noisevideo	1111111	111 111		11	1
Sugar Capa Gultiration	1111111	1 11111	1	1111	1
Rice	1,141 330 460 142 4	1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2,559	11 1	6
Marshee	145 6 838 95 113	1396 1966 	972	39 - 39	154
Ponds	29 202 202 - 636 100 918	2,362 2,362 2,364	6,218	749 22 17	188
Canals & lirigatio	1,495 lake500 54 29 430 202 (8,0 0 — 98 20 100	23	1,139	327	334
eniera	4,237 18 2,40 21,600 3,4 923	- 60 - 5,117 - 4,7.6 2,431	47,242	100 100 1	1,063
Wells and Sakias	19 19	1 11111	61	1 828	7.0
Unburnt Brick Puddles	8-111-11	111111	6	111	111
Rellway Difebee	120 120	1898	241	211	212
Barrow-Pite	495 185 160 54 54 103		1,245	1181	10
Units	Dawar			Absh way	
	- E : 3 -	Biala Des. uk Toukh Belbe s Anshas Ismailia Suez			
		- ~ 	1	:	
			:	1 11	
	11	1 1 1 11		111	
orate	1 1	1 1 1 11	:	1 11	TOTAL
overn	1 1	1 1111	:	1 11	
D to	1 1	1 1111	:	111	
0			:	111	
vino	1 1	1 1 1 1 1			
Province or Governorate	1 1	: ::::	:		
Provino				Fay um Sor them Desert Frontier Zone	

Table No. 77.—Showing Quantities of Paris Green and Mazut consumed throughout the Yeab 1944

District	7	Province Governo		Station	Paris Green	Mazut
					Kilograms	kilograms
Lower Egypt as Canal Zone	nd 	Behera	 1	Idku Kafr el Dawar		8·444 6·945
		Gharbia	 1	Fowa Kafr El Sheikh Biala	52 010	1·670 2·094
		Dakahlia	 1	Faraskour Dekernis	30.000	16 · 980 850
		Canal	 	Ismailia	41	17:377
		Suez	 	Suez	13.440	29.660
		Sharkia	 1	Belbeis Anshas		10.420 21.700
		Kaliubia		Toukh	. 15	15.572
				TOTAL	186 606	131.722
Upper Egypt		Fayoum	 1	Fayoum Abshaway	7.0	10·916 2·600
				TOTAL	. 58.076	13 · 516
				GRAND TOTAL	244.682	145 - 238

TABLE No. 78.—Showing Birkas filled in during the Fiscal Year 1943-1944 by the Village Affairs Department.

Debited	No. of		Total Area	-	Total	cost	Remarks
Debited	Birkas	F.	К,	8.	L.E.	Milliemes	Remarks
1.—Debited against supplementary funds of malaria section.							
Filling in birks at Tahanoub village, Shebin el Kanatir District, Kaliubia Province	4	3	22	16	3,358	675	
Filling in Birkas at Ballana village, Eneiba District, Aswan Province	12	16	4	16	3,880	730	
Filling in Birkas at Eklit and Mansouria District, Aswan Province	15	4	3	17	1,536	-	
TOTAL	31	24	7	1	8,775	405	
2.—Debited against Provincial Council Accounts.							
Filling inBirkas at Tahanoub vill. Shebin el Kanatir District, Kaliubia Province	2	2	3	-	3,557	785	
3.—Debited against Girga Pro- vincial Council Accounts.							
Filling in Birka at Manshah. village, Girga District	3	2	18	_	3,442	810	
Filling in Birka at Nagah el Tina and Awlad Yahya Bahari, Girga District	3	-	21	-	1,820	, 880	
GRAND TOTAL	39	30	1	1	17,596	83 6	

Table No. 79.—Showing no. of Warnings and P.Vs. of Contravention, drawn up by Malaria Units and their Branches in Lower Egypt and Canal Zone and in Upper Egypt and the Southern and Western Desert Governorates during the Year 1944.

Province or Governorate	Unit	Burros or pu	w pits	Fillir covering wells or and abo pur	disused sakias dishing	Cleaning or Mi			ning is or shes	Prohib of r or sugar cultive	ice r-cane
		Wa.	P. Vs.	Ws.	P. Vs.	Ws.	P. Vs.	Wa.	P. Vs.	We.	P. Va.
Behera	Idku Kafr el Dawar Kafr el Sheikh Biela Dekernis I-mailia Suez Belbeis Toukh	- - 3 - - - - - -	111111111	- - - - 1 - 1	- - - - - - -	159 138 4 15 5 154 109 —	90 48 — — 34 5 — 21	HILLIH I		178 - - - - - - - -	47 309 — — — — —
	TOTAL	3	-	11	1	635	198	-	11	173	356
Fayoum{	Fayoum Abshaway	=	_	-	=	2 5	6	=	-	=	11
	TOTAL	-	-	-	-	7	6	-	-	-	-

Table No. 80.—Showing Total Quantities of Main Drugs delivered for Treatment during the Year 1944

Kind of drug	Lower Egypt	Upper Egypt	Total
a.—Quinine (2 grains)	28,479 Tablets	20,939 Tablets	49,418 Tablets
,, (5 ,,	14,446 ,,	4,007 ,,	18,453 ,,
,, (Chocolate)	14,987 ,,	5,328 ,,	20,315 ,,
bPlasmochine (Simple 1 cgm.)	6,834 ,,	25	6,859 ,,
,, 2,,	2,844	1,032 ,,	3,876 ,,
" (Comp. 0.5 ,,	31,117	10,451	41,568 ,,
n n 1. n	22,302 ,,	3,106 ,,	25,408 ,,
o.—Atebrine	176,829 ,,	28,758 ,,	205,587 ,,

NB ... The above drugs do not include the quantities consumed in the treatment Campaign against A. Gambia in Upper Egypt.

Chapter XV .- A. GAMBIA IN EGYPT

By the strenuous efforts directed against A. Gambia, the Ministry was able to vanquish this mosquito.

The Royal Visit :

The 11th of February 1944 was a red-letter in the history of eradication of A. Gambia in Egypt. His Majesty the King had, since the invasion of Upper Egypt by A. Gambia taken special interest in the campaign. It was on His Birthday in 1944 that His Majesty decided to pay the afflicted villages a visit to see for himself how the campaign was progressing. There, His Majesty visited the sick in their homes disregarding all danger of infection, thus giving the example for self-denial and sacrifice.

As a matter of fact the Royal visit was a great stimulant in that energies were soon after intensified and funds became abundant; all of which accelerated the campaign towards a successful end.

Funds:

On the 26th of February, the Council of Ministers approved L.E. 100,000 for both eradication and relief. On the 8th of March this fund was raised to L.E. 700,000. On the 27th of April it was raised once more to one million pounds which were distributed between the Ministry of Public Health and the Ministry of Supplies as follows:-

L.E. 828,000 allocated for trea ment and relief. L.E. 150,000 for eradication service and L.E. 22,000 for miscellaneous expenditures. On the 8th of June an additional sum of L.E. 100,000 was allocated for eradication work. Besides, a sum of L.E. 60,000 from the funds of the Higher Malaria Commission for year 1943/1944 was allocated for Gambiae Cont. ol.

On the 16th of November another half a million pounds was granted for the continuation of eradication and treatment services.

Mechanical Transport :

It became possible in 1944 to overcome the difficulty of transport which had greatly impeded the progress of anti-gambiae work. The Ministry of National Defence supplied the campaign with 60 military cars, with military drivers and assistants and personnel for maintenance and repair.

In August, this Ministry was able to requisition 10 cars which were sent directly to the field.

Under the Lend-Lease Act, the service was able to take over 36 cars from the Allied Armies with sufficient spare parts and a technical N.C.O. to supervise the maintenance of the cars.

It is to be pointed out that all these vehicles were engaged in mosquita eradication. There were others assigned for treatment, relief and filling of birkas.

Supplies :

During 1944 the campaign was amply supplied with insecticides

Through the M.E.S.C., 68 tons of Paris-green were received in September This provided a sufficient stock and it was possible to use it as the main larvicide. Malariol was no longer used except for the exhaust on of the quantities in stock.

Through the courtesy of the Brisith Army, 8,000 gallons of "shell tox" were received from Shell Co. during October. The stuff contained 1 per cent pyrethrin Again in November another 50 gallons of 25 per cent pyrethrin extract were received from the Brisith Army who promised to supply any amounts that would be needed in future. The British Army also supplied the service with 1/2 ton of commercial D.D.T. the use of which was restricted to the spraying of river craft trains and aeroplanes in service between Upper and Lower Egypt. This spraying was done by a gazoline driven motor compressor kindly loaned by the U.S. Army.

Through the M.E.S.C. sufficient amounts of anti-malarial drugs were also supplied In January four million tablets were received.

Through the Ministry of Supplies, 1/4 ton of paper was supplied in September and another 1/2 ton in October. This solved the difficulty of lack of writing paper and the impossibility of preparing the forms for the registration of the work.

External Helps :

During 1944, the Ministry received valuable help from outside which had a direct bearing on the success achieved by the complete eradication of the mosqu to from the country. The most important of these emanated from:—

- (1) Egyptian Army.—Reference was made on several occasions to the co-operation of the Ministry of National Defence in the Gambia campaign. Besides providing the eradication, treatment and relief services with vehicles and personnel, it detailed on March 17 a party of 2 officers, 3 N.C.Os. and 30 men for field eradication work in Adissat and Deir on the East bank of the Nile, south of Luxor. The Egyptian Army personnel engaged in the campaign continued to increase till in June there were 1391 officers and men on duty. Of these 900 were engaged in filling in of pools and swamps and 481 in mosquito control besides 2 M.Os., 3 N.C.Os. of the Army Medical Service.
- (2) British Army.—The Army Medical Service had rendered the Gambia campaign assistance in different ways notably the supply of drugs and equipment. They also took an active part in field work. A unit composed of one officer and 15 men was posted at Assiut to survey the neutral area (barrier) separating the infested from the non-infested regions; an important area in arresting the northward advance of infestation. Another anti-malarial unit stationed in Cairo used to carry out occasional surveys in infested areas chosen at random. Reports about these surveys which represented a control on the progress of the eradication work were submitted directly to this Ministry. As a matter of fact this was of great importance because of the great number of allied troops that were in Egypt at that time. Moreover, on the 14th of April a unit of one officer and 15 soldiers was devoted to field eradication work in 10 darakat "zones" at Armant.
- (3) Rockefeller Foundation.—During the early days of the epidemic, the U.S. authorities were approached with a view to delegating some experienced technical experts to help in the campaign. This was made impossible by the prevailing war-time conditions and the urgent need of the U.S. of America for all its men.

Early in July, however, it became possible to delegate one of the experts, Dr. John A. Kerr, who conducted the A. gambia eradication service in Brazil, to supervise the work here in Egypt. He took up his appointment as Director of the Gambia Eradication Section on the 15th of July. A few weeks later, a medical officer and a doctor of science joined the work. The first, Dr. Stephen, acted as field inspector and the latter, Dr. Reihl, supervised the experiments of D.D.T. spraying.

On the 15th of October, another expert, Dr. Bruce Wilson, who took part in the eradication service in Brazil joined the campaign. He was appointed as Director of the field headquarters in Assiut.

Besides the four men, Dr. Fred L. Soper, representative of the Rockefeller Foundation in the Middle East, who directed A. Gambiae eradication in Brazil was kind enough to visit Egypt from time to time and give his advice.

(4) Egyptian Relief Institutions — Much valuable relief work was done during 1944. Both Mohamed Ali Foundation and the Red Crescent Society had reorganised and set up their units in the infested areas. Stationary headquarters and mobile units were posted throughout the field. Thus relief work went hand in hand with mosquito eradication.

Review of the Condition of the Epidemic during 1944

Spread of Anopheles Gambiae:

It was mentioned that during 1944 the number of workers was continually increasing. This, of course, included both surveyors engaged in detecting larvae in breeding places in fields and others combating the adult mosquito within houses and bedrooms.

The spread of Gambiae during 1944 was certainly much less than in 1943. This is already shown by:—

- (a) comparing the figures of the two years after their modification on technical and uniform bases.
- (b) comparing breeding places in each zone during the two years.
- (c) the extent of the spread of malaria during the two years.

Table No. 83 shows the number of anopheline larvae collected during 1944 distributed according to posts and the number of A. gambiae in each place. It shows that A. gambiae represented only 18.4% of the total species collected.

Notification of Malaria:

Only new cases were notified during 1944. In 1943 notification included relapses which were recorded separately but were not shown on the official statistics.

Spread of Malaria:

It is now possible to study the official figures of cases and deaths of Malaria notified during 1944 in the four southern provinces distributed quarterly:—

					Asw	an	Qer	10	Gir	ga	Ası	dus
	,	nart	or		Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths
lst				 	439	303	1,358	1,141	54	2	17	_
2nd				 ***	126	84	1,287	152	10	3	12	-
3rd				 ***	3	3	209	53	35	-	29	-
6th				 	692	6	1,084	36	1,135	-	26,333	(
T	OTAL			 	1,260	396	3,938	1,382	1,234	5	26,391	

TABLE No. 81

This gives the total cases of Malaria in the provinces infested with A. gambiae during 1944 as 32,823 cases. It need hardly be said that this is the nearest figure representing the true situation and no other estimate need be carried out.

At the end of 1943 the malaria epidemic caused by A. gambiae was largely localised in Qena province. It continued there during the whole of 1944 in a slightly moderate condition but with a relative increase in the death rate. The other three provinces remained free from the epidemic until early October when a sudden severe outburst of the epidemic occurred in Badari and Sahil Selim on the east side of the Nile in Assiut province. Drastic measures were thereupon taken against the epidemic. These consisted of early and efficient treatment, control of the adult mosquito in houses and the larvae in breeding places.

By this way it was possible to stop the epidemic while still at its onset and to prevent its spread elsewhere whether in Assiut or in any other province.

This same procedure was adopted in Adisat and Luxor during November when a relative increase was observed in the number of A. gambiae and malaria cases. The condition improved very quickly and the control measures had to be discontinued early in December.

The abortive methods of control had not only been effective in stamping out the disease, but also in reducing the number of deaths to almost naught. Thus amongst 26,000 cases only 6 deaths were recorded, an unprecedented record.

Segregation of the Mosquito .-

During 1944 segregation measures were tightening round A. gambiae in and around the infested area. These consisted of (1) quarantine measures, (2) neutral zone, (3) disinfestation of means of transport.

- (1) Quarantine measures.—All air and river craft arriving from the South were subjected to severe disinfestation measures with the exception of the British Military aircraft which for military reasons were not always disinfested.
- (2) Neutral zone north of Assiut.—This neutral zone proved of great value during the last quarter of 1944 when the Malaria epidemic overwhelmed Badari which bordered the zone.
- (3) Disinfestation of means of transports.—There was a chain of 12 disinfestation stations set up at key points at Bellana, Aswan, Edfu, Isna, Luxor, Dishna, Nag Hamadi, Oasis junction, Girga, Assiut, Beni-Suef and Giza along the River Nile, the railway line an main road for the disinfestation of all river, rail and road traffic proceeding northwards

The insecticide used was a 0.15% solution of pyrethrium extract and kerosene which was sprayed by means of a spraying hand pump. On occasions, eorosol bombs were useh or the disinfestation of aircraft.

- (4) D.D.T. spray-painting.—A new hapter in the use of D.D.T. was started in November 1944, when the ceilings of railway coaches were spray-painted with a 10 % D.D.T and kerosene solution. This was perhaps the first time this method was practised in the whole world. During that month (i.e. until the beginning of the following year) 85 coaches were spray-painted with 617 litres of solution, i.e. at a little more than 20 cms³ of solution per square metre of surface. A petrol driven motor compressor was used with a spray gun.
- (5) Eradication.—During 1944 the organisation of the Gambia eradication campaign was completed. The infested area from Bel and south to Assiut north was divided into 641 zones (darakat) which were serially numbered and the boundaries clearly frozened.

These "darakat" were so bounded that all larvicidal work within each could be carried out by one man in six days. In case the breeding places in any of the "darakat" increased as a result of temporary circumstances, e.g. flood, the local chief had the right to divide it into subdivisions under the original serial number and appoint a man to each subdivision. During 1944, the largest number of "darakat" was 900.

Eve y four or five "darakat" formed a "magmova" or district under one local supervisor. The maximum number of these during 1944 was 151. The 641 "darakat" were grouped under 39 "dairas" or posts each headed by a medical officer or an engineer. The 39 "dairas" were again group d under 10 "manatik" or "divisions" each headed by a senior mal ria expert.

The Gambia eradication campaign was mainly directed against the larvae. The adult mosquito was not attacked except on two occasions for the control of malaria epidemics, namely:—

(1) at Badari and Sahel Sel'm where systematic disinfestation of houses was done once a week. 262 men divided into 60 gangs, were engaged in the work. 162,692 houses were sprayed during the months of October. November and December. 28,971 litres of pyrethrum-kerosene solution were consumed in this work.

(2) at Adisat and Luxor, 8,965 houses were sprayed during the latter part of October and during November. 540 litres of insecticide were consumed.

As regards la vicidal work, Par's-green fo med the principal larvicide and whenever more supplies of it were available, it was used more 1 berally. The Par's-green was mixed with dry earth from place of work to make a 1% m xture. This mixture was dusted by the hand over the surface of breeding places. The following table shows the amounts of larvicides consumed monthly during the second half of 1944. It is to be pointed ou that the amounts of Paris-green shown are the pure stuff before being mixed by 99 partt of earth:—

TABLE No. 82

Month		Paris-green	Malariol
		(ton)	(ton)
July	 	small amount	328
August	 	4.0	139
September	 	7.2	81
October	 •••	14.8	47
November	 	13.0	67
December	 	14.3	31
TOTAL	 	53 · 3	691

Table No. 84 shows the number of personnel on the G.E.S. as at the end of each month in 1944, distributed according to different categories of work. This table shows clearly the progressive increase in the number of men in each category in 1944. The decrease in personnel from Ju y to October was the result of replacing Malariol with Paris-green in the larv cidal work. The former needs more labourers than the latter which requires only one labourer with the overseer. The temporary increase in labourers in November was occasioned by an increase of Adult Mosquito Control gangs in Badari, Sahel Selim, Adisat and Luxor which usually engage larger numbers of labourers.

Treatment of Malaria Patients:

During 1944 the organisation of the Treatment Service was also completed. The 585 infested villages with a population of 2,444,564 inhabitants were divided into 16 "Manatik" each supervised by a treatment inspector. The maximum number of personnel in service was 1,026 consisting of 13 inspectors, 78 medical officers, 12 clerks, 117 sanitary surveyors, 753 overseers and 53 labourers. The service was provided with 54 cars of different types with headquarters at Luxor in the centre of the infested area.

The fundamental basis of the program of the service can be summarised in the following:—

- 1. House to house search for patients without waiting for their attendance at clinics or for notification by relatives.
- Administration of medicines on the spot and ensuring as far as possible that patients take the drug systematically.
 - 3. The doses were increased and the period of treatment prolonged to avoid relapses.
- 4. Health propaganda was carried out periodically by movies and broadcasts to entice the people to seek early treatment, to continue taking the medicine for a reasonable petients and to teach them the methods of prevention.

The amounts of the anti-malarial drugs distributed during 1944 were 16,240,000 tablets of atebrine, 107,000 tablets of plasmoquine, 63,000 chocolated tablets of quinine, 492,800 pills of iron, 1,449 ampoules of quinine and 305 kilos of Epsom salt.

Relief:

During 1944 the Ministry of Supplies provided extra provisions, soap and clothes which were distributed to the needful in Badari and Sahel Selim by ladies of Mohamed Ali Foundation and in Adisat, Luxor and Armant by ladies of the Red Crescent Society.

In Badari area the Ministry of Education provided a midday meal to pupils of elementary and compulsory schools.

The Ministry of Public Health also provided a meal to all out-patients attending the general hospitals at Aswan and Qena provinces and at Badari and Sahel Selim towns.

Conditions at the Termination of 1944:

This is the third year of the battle against A. gambiae which still persists in almost one fifth of the infested area, but this time a well developed Eradication Service is leading the battle.

The outburst of malaria epidemic in Badari and Adisat was promptly suppressed and was soon on the decline.

It is worthy of mention here that the mosquito failed again to penetrate Northwards through the neutral zone.

Table No. 83.— Showing Distribution of Anopheline Larvae Samples collected during 1944, and those identified as Gambia

Name	of	Post		Total Samples	Identified Gambia	Name of Post	Total Samples	Identified Gambia
Ballana .			 	1	1	Ballas & Nakkada	35	19
Eneiba .			 	12	12	Kous	43	30
Dirr .			 	11	10	Qena	152	63
Khour Rah	ma		 	700		Deshna	117	43
A 17 - 1 - 1			 	-	-	Hoe	309	5
Aswan .			 	62	39	Nag Hamadi	1,111	6
Daraw .			 	29	11	Abou Shousha	503	2
Benban .			 	45	18	Al Khiam	105	-
Kom Ombo			 	1,134	317	Baliana	981	2
Akleet			 	124	52	Girga	954	11
Silwa			 	184	91	Suhag	560	26
Al Sirag			 	86	67	Akhmim	1,171	92
Atwani			 	148	84	Tahta & Tema	544	168
El Deir			 	24	21	Badari	1,749	667
Adisat			 	49	29	Abu Tig	367	122
Luxor			 	- 85	50	Assiut	730	17
Edfu			 	413	278	Abnoub	378	-
Busailia			 	365	215	Manfalout	513	-
Sibaeya			 	68	41	Mallawi	937	-
Dane			 	119	87	Abu Qirqas	1	-
Mataana			 	207	80	Minia	225	-
Armant			 	98	48	Deirut	500	-
Dabiya &	Kur	ma	 	150	17			

Total	Samples	collected	durin	g the ye	ear	***	 	 	 15,399
Total	Samples	identifie	d A. G	lambia			 	 	 2,841
Ratio							 	 	 18.40/0

TABLE No. 84 Showing Distribution of Personnel during 1944

					Over	seers	Surv	eyors	other	Posts	
Month	Medical	Engineers	Supervisors	Observers	Larvae Exterm.	Adult Mosquito Eradicat	Larvae	Adult Mos- quito	Clerks & oth	other Po	Total
January February March April May June July August September October November December	18 19 29 33 36 43 43 41 48 48 52 53	4 4 4 4 10 14 14 17 19 22		16 20 30 35 43 72 91 107 155 173 189 200	162 149 179 263 308 482 653 546 767 804 900 889	82 77 55 63 35 40 59 60 150 191 141	12 12 14 22 23 30 34 46 105 128 147 210		31 32 36 35 41 47 58 64 71 136 133 141	596 637 887 1,163 1,454 2,071 2,900 2,393 2,036 1,861 2,121 1,909	950 1,234 1,618 1,948 2,789

Chapter XVI.—BILHARZIA SNAIL DESTRUCTION

During the year 1944-195, this se tion has been carrying forward its small control work in Fayour and Giza provinces and the Dak la Oasis. This has been extended to Asw a Province in conformity with the five year plan, which aims at covering the whole Egyptian territory.

Bological and se sonal factors have made it apparent that snail destruction

work had better begin n April.

I .- PROGRESS OF THE CAMPAIGN IN THE FAYOUM

The work in this province is progressing satisfactorily in spite of various difficulties of survey and treatment. The division of the province into areas was revised, 18 main areas were established. These were subdivided into 51 units of work, some of which comprizing a number of smaller areas making a total of 84 subdivisions. The following table gives the main surveys of the years 1942, 1943, 1944 and 1945.

TABLE No. 85

Spring Survey					WAY.		-	Number o	f streams	Comparative	Longths infested
Spring		, isur				Surveyed	Infested	Ratio	in Kms.		
1943								27,370	6,806	25%	4,618
1943			,					45,234	5,318	12%	3,588
1944								92,241	7,263	8%	5,009
1945								139,723	5,706	4%	4,365

It is seen that the number of streams surveyed rose considerably each year with the increasing accuracy of the surveys while the number and lengths of infested streams. decreased in proportion. At the same time the snail population in infested streams has been considerably reduced.

II.—PROGRESS OF THE CAMPAIGN IN GIZA PROVINCE

Survey and treatment of streams in this province are also satisfactory. The main areas were subdivided and operations more closely checked and controlled. Treatment of drains was restricted to those near villages or harbouring snails infested with schistosomes. Canals showing an infestation rate of less than 8 Bulinus snails in 100 d ps were disregarded until the infestation rose. The results of 2 years work in the province are given in the following table by a comparison of the initial survey in 1943 and the first main surveys of the years 1944 and 1945.

TABLE No. 86

Saning Sanana						Number o	f streams	Comparative	Lengths	No. of Bulinus in 100 dips.	
		Spring Survey		Surveyed	Infested	Ratio	infested in Kms.				
1943		***			 	4,111	1,616	39%	1,743	63	
1944					 	10,934	2,040	19%	1,455	42	
1945					 	12,950	2,001	15%	1,777	20	

In this province, as in the Fayoum, the number of streams surveyed yearly increased and the number of infested streams is proportionally reduced. The degree of infestation is fall ng steadily but it was noted that the snails which disappear after each treatment re-establish themselves again after a lapse of 2-4 months.

III .- CAMPAIGN IN THE OASES

1.-Dakhla Oasis:

A complete survey of all water sources showed that the infestation with Bulinus snails, the carriers of human Bilharziasis, is concentrated in the eastern part, whereas Limnous snails, the carriers of the liver-fluke of cattle is prevalent in the central and northern parts of the Oasis. Both species of snails are absent from the western and south-western parts. Out of 702 wells and streams examined, 58 contained Bulinus, 61 Lin nua and 5 had a mixed infection. The infestation with snails was heavy except in the village of Rashda, where several eradication campaigns were conducted in the past. All infested streams were cleared but only some could be sulphated owing to difficulties in the control of water during the season of rice cultivation. Samples of urine from all villages were examined. Bilharzia infection was found to be limited to 6 villages having a population of 9,000, out of which 1,500 persons were infected.

2.-Kharga Oasis:

Children from this oasis who had never left their native village were reported to have schistosomiasis (bilharziasis), and cattle from the slaughter-house showed liver-fluke infection. We propose to extend our work to this oasis shortly.

IV .- EXTENSION OF THE CAMPAIGN TO ASWAN

1 -Survey of Nubia:

The district was surveyed in July 1944. All perennial irrigation schemes were heavily infested with Bulinus snails. Great numbers were also found in the Nilepart cularly the khors and the watering places used by the popula ion upstream of the dam. Further south, thousands of empty shells were found on the banks of the river. Schistosomiasis is widely spread. Treatment of irrigation schemes in these regions is best carried out during summer when the water is low after the opening of the dam, but this will be left until communications become easier.

2.—The Area below the Dam:

This part of the province has been divided into two areas: Kom Ombo area to the south and Edfu area to the north. The estates of the Kom Ombo cultivation company, where perennial irrigation by pumps has been in practice for the past 40 years, have become a centre of Bilharzia infection (80 %). In Edfu area where the pumps started to function in 1934, the infection, which until then had not exceeded 11% rose markedly, reaching 75% in some villages. Both areas were surveyed, as shown in the following table.

Table No. 87

Area	Cultivated land in	Population	No. of	streams	Length infested	No. of Bulinus in	
	Feddan		Surveyed	Infested	in Kms.	100 dips	
Kom Ombo	41,000	61,000	3,283	392	460	76	
Edfu	45,500	122,000	6,786	407	407	65	

In Edfu area where the small distributaries dry up between irrigation rotations, the infestation is concentrated in the larger streams.

Both areas were then subdivided into smaller areas for treatment.

V .- RESEARCH

The following studies were carried during the year 1944:-

- 1. Studies on the effect of the winter closure of water upon *Planorbis* snails infected with larval schestosomes showed that a great percentage of infected snails die and that the development of the larval stages within the snails is retarded.
- 2. The Nile was surveyed for snails in Giza Province 128 kms. on the western bank and 86 kms. on the eastern bank). Only 36 snails were found and these were all in pockets containing weeds.
- 3. Experiments on the effect of copper sulphate solutions applied in various ways on hibernating snails which a e withdrawn into heir shells, showed that these were not killed in the same measure as active snails. The spraying of snails lying on the mud with copper sulphate solution did not affect the snails unless they were in puddles containing the solution. Planorbis snails, under similar conditions were less affected than Bulinus

Chapter XVII.—LEPROSY CONTROL

The campaign against leprosy in Egypt began in 1929. An independent section for that purpose was created in 1940. From 1929 till 1937 leprosy control was a branch of the endemic diseases section and from 1937 till 1940 it was a branch of the anti-tuberculosis and I prosy section o the minist y. Since the creation of the section great efforts were made towards combating the disease and isolating the greatest possible number o patients within the very limited accommodation notwithstanding the difficulties occas oned by the war which handicapped the progress of the section. In general, treatment of the patients was carried on satisfactorily.

Following is a table of the leprosy units and dates of their opening.

TABLE No. 88

		Date of Opening			
1.	Abu Zaa	bal Lepr	osy Colony	 	 2- 6-1933
	Cairo lep			 	 25- 2-1929
	Zagazig			 	 5- 4-1930
	Souhag	,,	,,	 	 28- 4-1930
	Tanta	"	,,	 	 22- 2-1931
6.	Minia	"	"	 	 10- 6-1931
7.	Alexandr		**	 ***	 17-1-1938
8.	Mansoura		"	 	 10-10-1938
9.	Shebin e			 	 12-10-1938
	Qena	,,	,,	 	 4- 2-1939

Necessary credits for opening a new unit in Assiut have been approved this year.

Abu Zaabal Leprosy Colony :

Abu Zaabal leprosy colony is the biggest leprosy unit and the only found aion of its kind in Egypt. The aim of creating this colony is to solate lepers, provide them with all necessties of normal life and instruct them in the different agricultural and industrial professions and thus create a self supporting community.

The number of patients iso ated in the colony at the end of this year was 350. Although the buildings of the colony were intended to accommodate 100 patients only, great efforts were made to accept that number (350) who continually applied for admission by providing wooden wards and some tents for that purpose.

Number of new patients admitted this year	 	 	80
Number of patients repeatedly admitted	 	 	108
Number of patients discharged this year	 	 	166
Number of deaths	 	 	22

It is well known that manual work, besides occupying the leisure time of the lepers and so eaves them no opportunity for brooding over their affliction and seclusion, has a direct effect on their general health and increases their resistance to disease and thus enables them to pursue their original occupations and lead a normal life. Manual work or "occupational therapy" a it is technically known is now a fundamental part of the general treatment of lepers.

Great attention was paid this year to organising the patients' industrial and agricultural act vit es so as to satisfy the requirements of he colony and Cairo hospita. The patients who were trained local y to act as nurs ng staff have succeeded in their work specially in dressing the patients' wounds and ulcers. It is proposed to give them an elementary course in nursing in order to increase their knowledge about the work they do.

New works in roduced in the Colony this Year:

- 1. 25 acres of land around the pumping station overlooking Ismailia canal, 2.5 k'lometres from the colony, have been annexed to the colony to form a site for a smal colony for healthy children of isolated lepers who have nobody to look after them. Thirty patients are now living there in tents. 10 acres of land are already levelled and cultivated
- 2. Large areas of land amounting to 5.5 acres around the colony and the staff quarters have been levelled. Many new parks and roads with trees on both sides have been constructed. These gave the colony the appearance of a town or a modern village.
- 3. More cattle have been provided to meet the ever increasing agricultural needs of the colony.
- 4. 30 acres of land are now under cultivation producing vegetable and fruit supplies for the colony, the Cairo hospital and staff and also forage for the animals.

As no surplus crops from the colony farm can be disposed of in the local market and in order to avoid wastage, cultivation is now so arranged as to ensure the supply of vegetables in just adequate quantities to meet the daily needs throughout the year.

Products of the Cultivated Land this year:

47,000 kilog. Fresh vegetables and salads.

2,000 ,.. Melon and watermelon.

2,000 ,, Onions and garlic.

3,000 ,, Dry seeds (beans, peas, peanuts, etc.).

300 ,, Barley.

200 .. Clover seeds.

2,000 ,, Forage (grass and straw).

- 5. A total of 8,000 kilograms of milk were supplied by the four gamooses bought last year to form the nucleus of a dairy; or an average of 5.5 kilos daily by each gamoose.
- 6. Shoemaking and tailoring workshops which are manned by lepers produced the shoes and clothes required by patients of both the colony and Cairo leprosy hospital.

1,500 pairs of slippers were produced by the former and 36,000 garments by the latter.

The average daily number of workers was 10 in the former and 4 in the latter.

Amongst products of other workshops were casting of 6,300 cement slabs for pavements, the disinfection of 1,500 garments and the tinning of the colony's copper utensils, besides attending to the patients' mail.

- 7. A few shows were arranged on special occasions for the entertainment of the lepers in which the patients as well as the staff and certain professional actors from outside took part. Ritual ceremonies were also observed on the Prophet's birthday.
- 8. Another radio has been bought for the amusement of the patients tenting near the pumping station who are too far away to be able to listen in to the radio in the colony

Water and Light:

The colony is supplied by high tension electric current from the electric power station of Abu-Zaabal E.S.R. Workshops. The Ministry of Public Health had financially subscribed in the expansion of that station before the war to avoid the great costs of creating a special station. This high tension current is transformed into low tension current by special transformers installed within the colony.

Water is drawn from Ismailia canal (2.5 kilometres from the colony) by means of pumps for irrigation of the land and gardens. Water for drinking is filtered and then chlorinated before use.

Maintenance of pumping stations, filters and transformers is done by skilled labour in the colony.

Disposal of Sewage:

All sewage of the colony was drained into trenches after passing through impermeable septic tanks. With the increased area of cultivated land, these trenches became saturated and inadequate to drain all the sewage water and too often the tanks overflowed. A small power station was therefore installed to lift the water from a central collection well and after mixing with river water it was used for irrigation. This increased the fertility of the land.

Workshops:

Small workshops equipped with all the necessary tools and machinery were provided in the colony and run by skilled workmen who, at the same time, supervised workshops manned by lepers. These have carried out all the minor building repairs, plastering, whitewashing, sanitary and electric repairs, new wooden constructions, motor car repairs etc. required by the colony.

TABLE No.	89-WATER AN	ND E	LECTRIC	CUBRENT	CONSUMED	THIS
	YEAR 1	IN TI	HE COLO	NY.		

Kilowatt used for lighting	Kilowatt used by pumps	Total	Cubic Meters of fresh water	Water for irrigation by Cubic M.	Drinking water by Cubic M.	Sewage Plan.
70,630	154,900	225,530	743,999	70,400	38,599	16,040

Cairo Leprosy Hospital.

This unit was first opened in February 1929 as an out-patients clinic. In 1930 an in-patient section with an accommodation of 30 beds was provided. Since then new patients continued to increase until 200 patients are now accommodated in the hospital; besides out-patient annexes in Karamidan, Imbaba and Kaliub. Since 1933, this hospital has temporarily been used for isolation of female lepers only until accommodation in Abu Zaabal colony is provided for isolation of patients of both sexes.

The number of patients who presented themselves to the hospital and its branches this year was 273, among whom 210 were found leprous.

The number of in-patients was 196 and this was the maximum number the present building could hold. The practice of giving patients some work to do adopted in Abu Zaabal is also followed here. It had the best general and psychological effects on the patients. Besides the needle work, the patients undertake all the household duties, e.g. cleaning and washing. The more intelligent patients act as attendants for bed ridden-patients. Special interest is taken in the amusement and entertainment of the patients. Shows were arranged on special occasions and confectionary was distributed on feast days. The patients are content and appreciative of the care they receive from the hospital authorities.

Out-Patients Clinics.

These clinics were created in the chief towns of the provinces, for the detection and treatment of lepers. As treatment is given once a week, four branch-clinics were provided in the surrounding districts and attended by the medical officer of the main clinic. This arrangement enables distant lepers seek treatment in these branch-clinics who, otherwise, are unable to attend at the main clinic because of poverty or ill health.

25-bed in-patient departments have been provided in some of these clinics for the accommodation of patients whose condition requires special technical care or immediate isolation. It is intended to introduce this in-patient accommodation in the remaining elinics.

TABLE No. 90-DETAILS OF THE CLINICS, THEIR BRANCHES AND THE IN-PATIENT SECTIONS IN OPERATION.

	Name	of Unit		In-Patient Section	Branches.
Abu Zaabal Cairo lepros	y hos	pital		 ++	Karamidan, Imbaba and Kalioub.
Zagazig lej	prosy	Clinic	 	 -	Abu Hammad, Shebin el Qanater, Minia el Qamh and Abu Kebir.
Souhag	**	,,	 	 +	Tima, Tahta, Girga and Akhmim.
Tanta	**	"	 	 +	Zifta, Mahalla, Qellin and Kafrl el Zayat.
Minia	"	,,,	 	 +	Beni Mazar, Abu Kirkas, Samallut and Mallawy.
Alexandria	"	,,	 	 _	Damanhour, Idko, Rosetta, Disouk and Karmouz
Shebin el K	om	11	 	 -	Menouf, Ashmoun, Quesna, Benha and Batanon.
Mansoura	,,	**	 	 -	Damietta, Simbellawen, Sherbin and Dikirnis.
Qena	**	**	 	 +	Luxor, Kous, Dishna and Naga Hamadi.

Statistics of Patients:

The number of patients who presented themselves for examination at all the leprosy units this year was 1,372. Of these 672 were found leprous and the remaining 700 suffered from other diseases and were referred to the special hospitals.

Table No. 91—distribution of patients examined in the Different units this year.

/ Name of Unit											No. of Patients examined	No. of Positives	No. Negative
Abu Zaabal	lepro	sy colon	y								81	80	1
Cairo leprosy											270	192	78
Zagazig lep		clinic									34	34	_
Souhag	,,	**									128	52	76
Tanta	"	"									226	84	142
Minia	,,	,,									327	28	299
Alexandria	"	"									107	62	
Mansoura	11	"									111	69	45 42 3 14
Shebin el Ko	m.,	"									54	51	3
Qena	**	"									34	20	14
						To	TAL				1,372	672	700

Table No. 92—Showing Number of New Patients discovered in the Clinics and Branches

Unit	Branches	No. of New Patients
Abu Zaabal leprosy colony	 In patients	80 25 133 18 16
Zagazig leprosy clinic	Main clinic Abu Hammad Shebin el Qanater Minia el Qamh Abu Kebir	17 12 4 1
Souhag leprosy clinic	Main clinic Tima Girga Tahta Akhmim	19 19 9 2 3
Tanta leprosy clinic	 Main clinic	55 13 7 2 7
Minia leporsy cline,	 Mai clinc Beni Mazar Abu Kirkas Samallut Mallawi	10 3 2 4 9
Alexandria leprosy clinic	 Main clinic	22 7 3 6 19 5
Mausoura leprosy clinic	 Main clinic	50 8 2 5 4 —————————————————————————————————
Shebin el Kom leprosy clinic	 Main clinic Menouf Ashmoun Quesna and Benha Batanon	10 14 6 15 6 51
Qena leprosy clinic,,	 Main clinic Luxor Dishna Naga Hamadi K us	1

Table No. 93.— Number of New Patients, those found Leprous amongst them and their Rate per cent since Leprosy Control was started until End of 1944

		Yea	r			No. of New Patients	No. of Lepers	Percentage	
1929			***			394	208	53	
1930				***		1,015	433	42	
931			***			1,472	588	40	
932						1,287	485	38	
933						1,639	744	45	
1934						1,273	618	49	
1935						1,083	584	54	
1936						1,031	726	70	
937						1,759	888	50	
938						2,171	1,097	50	
939						2,198	1,009	48	
940						2,298	995	43	
1941						1,387	728	53	
1942		900				1,586	825	52	
943		***				1,488	771	52	
1944	***	***	***	***		1,372	672	44	
		.4	***	***					
					1	23,458	11,422	40	

The number of lepers recorded by all the leprosy units since leprosy control was started in 1929 until the end of this year was 11,422 of which 2,810 were recorded in more than one clinic leaving 8,612 lepers proper on record. These are distributed as follows:—

TABLE No. 94

	Uni	t				No. of Patients Registered	No. of Repeated	Net No.
bu Zaabal lepros	y cole	ony				 1,078	901	177
airo leprosy hosp						 3,170	442	2,728
Lagazig leprosy	clinic					 896	177	719
louhag ,,	**					 1,487	119	1,368
anta "	,,					 1,639	298	1,341
Iinia "	"					 1,012	97	915
lexandria ,,	"					 384	115	269
Iansoura ,,	**					 746	321	425
hebin el Kom ,,	**					 653	282	371
lena "	"					 357	58	299
			To	TAL	***	 11,422	2,810	8,612

Table No. 95.— Number of Patients Isolated in the Different Units until the end of December 1944

	No. of Patient Isolated						
Abu Zas	bal le	eprosy	col	ony	 		350
Cairo lep					 	***	196
Minia le	prosy	clinic			 ***		36
Tanta	,,	,,			 		25
Souhag	"	11		***	 		6
Qena	"	n			 		8
			T	OTAL	 		621

Leprosy Control Law.

Leprosy is an infectious disease caused by a certain bacillus the nature of which has not so far been ascertained despite the many efforts spent in this direction since its discovery and, therefore, no specific drug could be found for its cure. Hence segregation remained the only means of protection. Naturally a thorough and systematic segregation of all lepers would lead to the eradication of the disease. A project law has therefore been prepared and put into legal form prior to submission to Parliament for approval. This law provides for the registration and segregation of all lepers. Lists are now being prepared of villages of all recorded lepers subject to carrying a general examination of the population for detecting leprous persons with a view to their segregation on the law coming into force.

Treatment:

Besides treatment of leprosy and its complications, lepers are also treated for other diseases from which they may be suffering, e.g. parasitic diseases, syphilis, skin and other medical diseases. Except major operations which are done in the colony, all minor operations are carried out by unit M.Os. in the out-patient leprosy clinics.

Lepers in residence in the colony and Cairo hospital receive more care as they are all the time under medical supervision. A dentist and an ophthalmologist visit Abu Zaabal colony and Cairo hospital once a week for the treatment of the lepers and performing such operations as may be necessary.

Hydnocarpus oil and leprol (ethyl ester of shalmougra oil) were used in the treatment of leprosy this year. The oil is given intramuscularly once a week in initial doses of 0.5 cc. to be increased by 0.5 cc. weekly until a maximum dose of 5 cc. is reached. This is then maintained throughout. Owing however to shortage of this oil and import difficulties arising from war-time conditions and in order to maintain treatment, the maximum dose was reduced to 3 cc. and later to 2 cc. given in conjunction with leprol injections which were in stock.

The number of injections of hydrocarpus oil given this year was 77,639 weighing 182 kilograms of oil; 13,752 ampoules of leprol weighing about 20 kilograms of ethyl ester of shalmougra oil were also used.

Perforating ulcers are among the common complications of the disease that cause the patient much discomfort since they take a very long time to cure and disable many of the patients. Hence much attention is paid to the treatment of these ulcers. Where necessary, surgical treatment or suitable disinfectants are prescribed for each case.

A total of 180,500 dressings were applied this year in all the units.

TABLE No. 96—Annual Statistics of Lepers

		istics	0.00		(dener	al No	otes o	on L	epers							T	ra nsm	issio
Name of Unit	No. N.P	No. Neg.	No. Pos.	9	9+	Md.	Bach.	Egypt.	Forg.	Mohd.	Cpt.	O. Relg	D. inf.	Qd. inf	Fog. inf	Fam: inf	B.	M.	Par.
Abu Zaabal Leprosy Colony Dairo Leprosy Hospital	270 34 128 226 327 107 111 54	1 78 76 142 299 45 42 3 14	80 192 34 52 84 28 62 69 51 20	80 145 24 37 67 24 45 49 38 17	47 10 15 17 4 17 20 13 3	20 93 20 32 26 15 23 28 28 28	60 99 14 20 58 13 39 41 23 11	80 191 34 52 84 27 62 69 51 20	-1 -1 -1 	71 173 34 38 84 24 59 69 50 16	1 4	-1	56 147 30 40 62 27 55 60 42 17	4 12 22 1 7 9 9		19 20 4 12 19 1 7 9 3	1	-8 -1 -2 - -	

			Durat	ion of D	isease				Labore	atory Fi	ndings	
Name of Unit	1 year	2 years	3-5 years	6-10 years	11-15 years	16-20 years	20 and more	Neg. B.	Pos. B.	Nose	Skin	N. and S.
Abu Zasbal Leprosy Colony Jairo Leprosy Hospital	9 82 3 10 35 2 15 10 17 5	6 28 6 10 21 11 8 24 - 9 5	29 51 24 28 18 10 17 28 19 9	28 25 1 4 8 4 16 6 2	8 - 2 2 2 1 5 1 2	- 1 - 1 - 1 - 2	- 1 	37 74 11 16 40 21 32 3 — 8	43 118 23 36 44 7 30 66 51	2 8 - 8 16 - 14 51 21 4	2 27 - 4 1 8 3 - 7	
Total	188	128	231	97	25	4	1	242	430	124	51	

	O. (Jov.	Alex	. G.	Dam	. G.	Cana	IG.	Suez	Gov.	Behe	ra	Gha	rbia	Mend	oufia.	Daka	hlia	Shar	rkia	Kal
Name of Unit	B.	R.	B.	ii.	B.	B.	B.	B.	B	ë	B.	R.	B.	B.	B.	R.	B.	B.	B,	B.	3.
abu Zaabal Leprosy Col. airo Leprosy Hospital agazig Leprosy Clinic uhag " inia " inia " iexandria h. el Kom ena Total	7	4 577 		Ξ	13 4	1 3 - 4	111111111111	111111111111	1 1111111111	THEFTILL	2 8 - 1 - 12 - - - - - - - - - - - - - - -	2 6 - 1 - 13 - -	11 17 — 65 — 25 17 —	11 17 — 69 — 23 18 —	24 1 - 8 - 4 - 43 -	6 11 - 10 - 43 - 68	3 -6 -3 47 1	3 - 6 - 47 1 -	21 - 1 - 1 - -	9 9 22	3 21 9 - - - - - -

TREATED IN LEPROSY UNITS DURING 1944

Infection	Classification	Age of Pt. on first examination	Age on appearance of the disease
S. and D. B. and S. Rel.	Ou. N. Mix.	21-20 21-30 31-40 41-50 51-60	From 1-5 6-10 11-15 11-15 16-20 21-25 26-30 31-35 36-40 41-45 46-50 51-55 66-60
9 6 - 6 10 - 1 - 2 - 1 4 3 8 7 1 4 - 1 3 2 - 1 3 2 - 5 3 - 2 - 2 - 3 - 3 38 40	5 38 37 29 81 82 — 11 23 — 24 28 16 57 11 — 22 6 4 43 15 — 54 15 2 18 31 — 11 9 56 339 257	10 32 20 14 3 3 2 - 9 8 6 5 2 24 21 10 2 3 - 2 28 21 10 6 2 - 2 14 15 11 5 4 - 2 3 9 6	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$

			No. o	f Patie	nts sinc	e Inaugui	ration				Details	of Spe	cial Tr	eatments	
	1 4	1	ह ो	OS.	. 1	4	ts	treat.	10	0	il	Е	ter	Anti-L	eprol
Gen. No-	No. Neg.	No. Pos.	No. Repeated	No. True Pos	No. Isol.	No. Attend.	No. Absents	No. Pts tre	No. Dress	Number	Quant	Number	Quant.	Number	Quant.
									12						
1,079	1	1,078	901	177	350	17,221	3,625	13,596	62,708	6,335	16,616	-	-	7,564	3,908
6.440		3,170	442		196	22,964	17,045	23,156	72,710	11,192	25,502	-	_	10,700	7,06
2,041		896	177	719	-	6,049	39,799	6,083	5,216	5,945	14,581	-	-	138	95
3,678		1,487			-	11,467	64,096	11,519	4,870	10,601	26,639		-	880	55
3,980		1,639	298		25	8,463	74,679	8,547	8,742	7,641	17,583	-		750	50
2,409				915	40	10,451	37,761	10,479	14,312	10,479	23,824	-	-	802	- 541
924		-		-	-	4,953	13,453	5,015	2,211	4,455	10,263	-	-	500	33:
1,129	383	746	321	425		7,894	29,050	7,963	4,418	7,523	18,301	-	-	438	299
970 794		653 357	282 58		- 8	9,328	23,406 13,449	9,379	3,813	8,294 4,736	17,355		-	800	459
194	401	901	08	299	0	4,720	10,440	4,740	1,402	4,130	11,100	755	10000		-
2.444	12,022	11,422	2.810	8,612	619	103,515	316,363	100,482	180,432	77,201	181,848	_	_	22,572	13,759

Gi	iza	Beni	Suef	Fa	yum	Mi	nia	Ass	dut	Gir	ga	Qe	na	Asw	an	Si	nai	W.D.	Gov.	S.D.	Gov.	Ab	road	To	otal
B.	B.	B.	R.	B.	B.	B,	R.	B.	R.	B	B.	B.	B.	B.	R.	B.	. R.	B.	R.	B.	B.	B.	d	B.	B.
10 35	10 35	7 8 4	7 8 -1 -4 -	35	34	2 4 - - 13 - -	2 1 - - 13 - -	5 20 - 18 - 10 1	5 7 19 10	3 9 -32 -1 8 -	2 4 -33 -1 	1 5 - 1 - - 19	1 1 - - - - - 19	33 31	2 1 - - - - -	1111111111	1111111111	пппппп	111111111	111111111	1111111111	- ₁ - ₁ - ₁ - ₁ - ₁ - ₁		80 192 34 52 84 28 62 69 51 20	86 193 34 53 84 28 63 63 51 20
46	45	20	19	8	7	19	16	54	41	53	40	21	26	9	3	-	-	-	-	-	-	4	2	67,2	67

PART V. — RESEARCHES AND LABORATORY EXAMINATIONS

Chapter XVIII.—SUMMARY OF THE WORK OF THE PUBLIC HEALTH LABORATORIES

1.—Bacteriological Section:

The total number of specimens examined bacteriologically in the Central, Provincial and Branch Laboratories, during the year 1944, was 475,564.

2 .- Clinical Pathological Section :

2,217 specimens were examined during the year under review in this Section.

3 .- Chemical Section :

The total number of samples examined chemically in the Central Laboratories, Assiut and Tanta Chemical Laboratories, during the year 1944, was 68,626.

4 .- Water Section :

(a) Bacteriological Service:

The total number of samples of water, aerated water, ice and syrup examined by this-Section, during the year 1944, was 5,806.

(b) Chemical Service:

During the year, some 582 samples of water have been subjected to chemical analysis

5 .- Antirabic Institute and Hospital:

During the year 1944, 7,039 patients attended the Institute. Out of these 6,859 were fully treated.

6. - Serum and Vaccine Institute:

The	following	vaccines	and	sera	have	been	prepare	d during	the year	1944 :-
(1)	T.A.B						510,9	70 ccs.		
(2)	Anti-plagu	e vaccin	e				457,3	20 ,,		
(3)	Cholera va	ccine					90,2	20 ,,		
(4)	Gonococcu	s vaccine	e		***		34,1	40 ,,	1	
(5)	Typhus va	accine					20,0	00 ,,		
(6)	Diphtheria	prophy	rlacti	e (I	formo	1				
	Toxoid)						30,0	47 boxes		ox for one per-
(7)	Calf lymp	h vaccin	e			:	32,387,9	00 dose	s.	
(8)	Diphtheria	antitox	in				1,1	50 amp. I.U.	. 10 cc. cc	ontaining 12,000
(9)	Anti-Teta	nus serur	n			1	200 am	p. 2 co	c. 3,000	Units.
(10)	Anti-Scorp	oion seru	m			7	7068 ar	np. 2.2	CC.	

Chapter XIX.— SUMMARY OF THE WORK OF FOUAD I INSTITUTE AND HOSPITAL FOR TROPICAL DISEASES

I .- BIOCHEMICAL DEPARTMENT

Since Penicill'n 's widely used in therapeutic purposes, the biochemistry department intended to prepare this substance, and try its use in the hospital annexed to the Institute. In fact, the department faced many difficulties in this respect due to lack of the necessary chemicals, because we were not able to order chemicals since the declaration of the war. We were able, however, to borrow some of the chemicals, from the other Government chemical laboratories, and began to prepare penic llin We found that the presence of impurties, especially arsenic, in the chemicals used interfered with the yield of crude penicillin. It became therefore, necessary to purify these substances, either by recrystallisation several times, if they were solid, or by distillation and filtration, if they were in liquid form. It was also found that pH 5.4 was the most suitable and gave the best results. It became possible then to prepare penicillin the concentration of which reached 128 in some cultures and 64 in others. It was poss ble to prepare 10 litres at one time, which is the largest quantity, the available glass-ware in the laboratory can hold. It was consequently suggested that n order to prepare penicillin on a large scale the apparatus and chemicals required should be imported. The crude penicillin was then tried on patients suffering from ulcers, and the results obtained are included in the hospital report.

An attempt was made to separate the active principle in the form of a powder. The Floury method was adopted and we were able to isolate a small quantity of purified penicillin.

The department took part in an investigation of a localised epidemic of acute Hookwarm disease in the village of Kafr Tahanoub near Shibeen el Kanater.

Particular stress has been laid on the investigation of the plasma protein in order to find out the true relation between sypoproteinaemia and oedema. Vitamin B, in the blood was also estimated to ascertain it here is a deficiency of this Vitamin in severe ancylostomiasis especially in oedematous cases. Vitamin A and C were also estimated. Cholestrol estimation and complete investigations of the kidney functions were carried out before and after treatment.

The results of the various investigations show clearly that the serum protein value are normal. In some cases there is an increase of the blood globulin with a reversal of the albumin-globulin ratio, but the amount of albumin was not reduced. The increase in serum globulin is most probably due to the concomitant schistosomiasis (Prof. Khali. Bey and Hassan, 1932). Vitamin B₁ in the blood was estimated by the thiochrome method-

In order to obtain accurate average figures more cases of ancylostoma anaemia attending the outpatient department were also investigated for vitamin B₁ in addition to the series of cases of Kafr Tahanoub. The total number of cases examined was 47 and the average value of blood vitamin B₁ was found to be 6 gamma per cent.

In a group of six normal persons the average value was 10 per cent. In the three cases suffering from oedema in the series of Kafr Tahanoub the average figure for Vitamin B₁, was found to be as low as 4 gamma per cent. There appears to be a considerable variation in the normal range of blood vitamin B₁ but a mean figure of 7 gamma per cent is accepted by most authors as normal. According to Sinclair a figure below 4.5 gamma per cent indicates a Vitamin B₁, deficiency. According to our investigations there is no doubt that a mild degree of deficiency is present in severe cases of ancylostomiasis.

In attempting to answer the question of avitaminosis in Ancylostomiasis we have investigated several cases for vitam n A and C deficiency. We used to give 300 mgm. vitamin C as a test dose at 6 a.m. The urine was collected between 7.a.m. and 1.p.m. and the amount of Vitamin C estimated. In normal persons the vitamin C excretion in the

6 hours period is 5 mgm. per cent (Conder and Neiderberger). We have estimated 14 cases of the Tahanoub series and found definite evidence of deficiency in 9 cases. The average figure was found to be 1.5 mgm per cent. This deficiency may partly be due to diminished absorption because of the associated gastro-ent ritis.

The estimation of indican in the blood and urine of patients suffering from pellagra has been varied out in the department. The method adopted was that of Monias and Shapiro which briefly consists in the oxidation of indican into indolignon by ferri choloride solution in concentrated hydrochloric acid. The colour formed is extracted with chloroform and compared with a standard. Renal function tests (urea clearance, etc.) were also carried out.

We notice that all patients were infected with parasites except two. Indican was always detected in the urine of all of them whether they were infected with parasites or not, and the approximate amount excreted daily varied from 20 mgm. to more than 60 mgm.

In the majority of patients indican did not exist in the blood. In these cases the urea clearance was above 65 per cent of normal average. In a few patients with urea clearance between 43-65 per cent, indican was found either in traces less than 0.2mgm. per cent serum or was absent altogether. In one patient only the indican content of the blood reached 0.35 mgm per cent in serum. In this case the urea clearance value was 42 per cent. In all patients, it was observed that blood urea values were within normal limits.

The majority of persons who were taken as normals were infected with various parasites. In these, indican was not always detected in the urine and this limits the probability that indicanuria in pellagrins may be the result of parasitic infection. Moreover indicanuria existed in pellagrins who were free from parasites.

SUMMARY AND CONCLUSION

- (1) Urine and blood of some Egyptian pellagrins were examined for indican qualitatively and quantitavely.
- (2) Indicanuria was a constant finding in pellagra cases examined by us. Indican when found in the blood was only in slight traces. It was raised in one patient only.
- (3) Nephro-hormone may be secreted in excess in pellagrins because constant indicanuria existed, while indican in the blood was not raised. Estimation of serum calcium, blood urea, and blood sugar curves were done in cases of septic sore.

The results are published in the Journal of the Egyptian Medical Association, August 1944.

Nutritive Value of Foenegreek:

Foenegreek contains a mucilage, which is formed mainly of polysoccharides which is converted in the body to fructose and glucose. The seeds contain also 22 per cent proteins, 6 per cent of fixed oils, and 5 per cent choline. They also contain an alkaloid related to nicotinic acid and is called trigonelline. This is the form in which nicotinic acid is mainly excreted in the urine. The seeds contain 5.7 mgm nicotinic acid per 100 grams, 13.2 mgm. per cent available iron, and some phosphorus. An aqueous extract was prepared in the Institute for trial on pellagrins. The extract was made so that each 100 cc., contains the following: Protein 1.8% Choline 0.35% Available iron 1.1 mg.% fixed oils 0.4./. nicotinic acid 0.45 mg.% trigonelline 10 mg.%

Preparation of Patients:

Two patients were admitted to the hospital, they were put under observation and given no drugs for three days. Their diet was deficient in meat.

The stools of both patients contained Ascaris, Ancylostoma and Bilharzia mansoni The urine contained ova of Bilharzia haematobium. Rash in the first patient was found on the neck, hands, and feet. After giving h'm 100 cc. of the extract thrice daily for five days, the rash on the neck disappeared. The rash on hands, feet, chest and face disappeared after eleven days from the beginning of the treatment. The general condition of the patients was improved and a marked rise of the haemoglobin was observed.

Effect of P. r -amino-Benzo'c A 'd on the Text ity of Ant mony Compounds:

According to some authors, it was stated that Para-amino benzoic acid has a detoxicating effect when given with pentavalent arsenic compounds as carbarsone, tryparsamide and other quinquevalent ph nyl arsenates.

It was stated also that this compound has got the same effect on the quinquevalent phenyl stibonates.

According to their experiments, they could give rats multiples of the lethal dose of either of these compounds without fataleffect or any toxic symptoms so that there was no need for analysis of the organs.

Bearing the above mentioned facts into consideration, we tried to follow the same experiments on white rats to know the effect of this compound on some trivalent aromatic antimony compounds, to show if it has the same effect without reducing its curtive power or not, and to show also if it is of any use for clinical purposes.

A number of rats nearly equal in weight were chosen and divided into two groups. The members of the first group were given the dose of P.A.B.A. and then a lethal dose of stibophen.

The members of the second group were given a lethal dose of stibophen without previous administration of P.A.B.A. The results of these two experiments indicated that P.A.B.A. has no detoxicating effect on stibophen which is a trivalent antimony compound.

Then two other groups were chosen and given the therapeutic doses. The members of the first group were given the dose with previous administration of P.A.B.A. After twenty-four hours from the last injection, the rats were killed and the amount of antimony in the liver and kidney of the members of the two groups was estimated and here was no significant differences between the two results.

The same experiments were carried out by giving P.A.B.A. twenty-four hours before giving the stibophen to ensure saturation with this compound but there was no difference between the two groups.

This work shows that P.A.B.A. has no detoxicating effect on the trivalent antimony compounds.

OTHER INVESTIGATIONS :

Several samples are sent to the Laboratory either through the Ministry or through the medical stores in order to test them chemically and biologically.

- (a) The Ministry sent both leaves and stem of Acacia, which is said to be used in curing malaria, in order to be investigated on scientific bases. This plant was found to contain neither quinine nor alkaloids. We did not find anything concerning this plant in the references on plants used in medicine. A full report was sent to the ministry concerning this problem.
- (b) Picrosine in the treatment of malaria: the part carried out by the department in this subject was to analyse the drug chemically, to find out its chemical constitution. It was found that it gave the characteristic reactions of picric acid. In addition, the urine of the patients who were given this drug was examined for picric acid, to find the rate of excretion of this acid. This work is included in the report of the hospital. No clinical or parasitological effect can be claimed for this drug.

- (c) Analysis of Fouadin samples sent by the Endemic Diseases Department was carried out, and it was found that these samples were unsuitable for medical use because they were oxidised. Other samples of Stibophen and Repodral were also sent by the medical stores to be tested. They were found suitable from the chemical point of view as shown by their content of trivalent antimony.
- (d) H.E. the Minister sent some drugs which were said to be effective in the treatment of malaria, to be examined for poisonous heavy metals, as arsenic and lead. Analysis showed that they were free from these poisonous substances. They were tested biologically in the hospital. They were found ineffective.

The department takes part in the training of doctors, and laboratory assistants who come from the hospitals, to be able to carry out the chemical and biological analysis in the hospitals where they work.

One of the chemists of the department has given valuable assistance in the field researches, which were carried out on infective jaundice in Fayoum Province.

II .- BACTERIOLOGY SECTION

The following investigations have been carried out during the year 1944:-

Samples of stools examined	for	Bac	illary	Dy	sente	ery:						
Total number of stools exa	mine	ed									****	71
Number of positive samples	3											21
Positive for B: flexner												12
Positive for B. shiqa												8
Positive for B. morgan No.	1											3
2.—Urine Cultures :												
Total number of samples of	ultu	red										50
Number of positive cases												14
Positive for B. coli												7
Positive for B. freidlander												2
Positive for B. pycyaneus												1
Positive for B. typhosus												2
Positive for B. para												1
Positive for B. paracolon A												1
3.—Khan Test:												
Total number of specimens												58
Negative cases												34
Positive ++++ ··· ···							ampl					
Positive +++ ··· ···						1	amp	les				
Positive ++ ··· ···						9	33					
Positive + ··· ··· ···						7	"					
Positive ±						2	"					
The samples were all done on antigen could be found on	lurir th	e m	e firs	t fo	ur m	onth	s of	the y	rear,	as a	fter	this
4.—Sputum examined for Koc	h's	Bac	illus :									
Total number of samples e	xam	ined										134

5 .- Sputum examined for Bilharzia Ova:

15 samples were examined and all gave negative results.

6.-Examination of Urethral Discharge for gonococci:

17 samples were examined, 7 of which were positive.

7.—Films examined for Leishmania:

2 Positive cases.

8 .- Miscellaneous :

- (a) One nasal swab examined for leprosy: the result was negative.
- (b) Three samples of blood were cultured: all were sterile.
- (c) One swab from throat was examined for fusiform bacilli and spirochaetes (vincents Angina): the result was positive.
- (d) Pus from two cases of empyema: both positive for pneumo o ci.

During the months of May, June, July and, August most of the work of the Bacter ology Section was directed to invest sate the cases of chronic ullers which of ured in an epidemic form at that time. Specimens from the ulcers were taken from cases in Port Said, Mansoura, Mahalla el Kobra, Zifta, Menouf and Cairo.

These investigations were published in the August number of the Journal of the Royal Egyptian Medical Association, 1944.

III .- CLINICAL REPORT.

Treatment of Bilharziasis by the use of Stibophen

This work was published in the Journal of the Egyptian Medical Association in 1944.

These are the results:—

- (1) 100 cases of Bilharziasis were treated in the Institute, of these 55 were cured, two cases of the last group returned after one month and were found to have been relapsed.
- (2) In order to test the efficiency of the Stibophen it was used on a large scale in Ezbet El Wabour near Helwan. This village was particularly chosen because the snails in its canals and streams were eradicated by the use of "copper sulphate". The treatment was very effective; 200 of the inhabitants who completed their course were completely cured. Three cases, however, continued to pass living eggs after they were given 16 injections of Stibophen.
- (3) The complications of treatment were nausea, vomiting, dizziness, rheumatic pains, fever, bronchitis, and oedema of face in some cases.
- (4) Some cases of Bilharzia suffering from heart disease were also treated, no particular complications happened.
- (5) Cases of Bilharziasis suffering from pulmonary tuberculosis, bronchectiasis, asthma were also treated by Stibopen. Their condition did not get worse except in cases of asthma where the paroxysms increased in severity an expectoration became more profuse; the paroxysms however were better after finishing the course of treatment.
- (6) A case of Bilharziasis suffering from myxoedema was given treatment without any untoward effect
- (7) In a case of purpura we had to stop treatment because injection usually caused purpurie eruption around the track of the needle.
- (8) The pyrocatecol test is useful, we can judge the slow excretor and so the dosage can be arranged according to the rate of excretion.
- (9) Stibophen is very useful for compulsory treatment of Bilharziasis. Its advantage in the treatment is that it can be given by nurses in the villages, the only disadvantage however is the high relapse rate especially in children.

(10) The relapse rate in 166 cases examined was 52 per cent. The relapse rate in children under 10 years of age was 80 per cent in male and 59 per cent in female. The relapse rate in th se over 30 years was 12.5 per cent in the male and 0 per cent in the female. The high relapse rate in children is due to the rapic excretion of the drug.

It is supposed that the trivalent antimony causes temporary exh bition of the ovaries, this causes transient dis ppearance of the ova. So it is advisable to give a longer course of treatment with antimony.

(11) It is advisable to give the treatment with antimony twice yearly.

Desert, Septic, or Veldt Sore in Egypt

Published in the Journal of the Royal Egyptian Medical Association, August 1944.

SUMMARY

- (1) Several outbreaks of cutaneous ulcers occurred in different localities in Egypt during the last two years. These ulcers are similar to what is called septic, desert or veldt sores. A certain proportion of these ulcers has been observed to become very septic and assume a phagedenic character. The fusiform bacillus was found in four cases of this latter type.
- (2) The clinical, bacteriological and pathological aspects of this condition were studied and the results reported in the text.
- (3) C. diphtheriae was found in 7 out of 32 cases, i.e., approximately 21%. This percentage although comparatively small, yet it is believed that this organism together with the pyogenic organisms, which were very frequently met with, play an important part in the causation and chronicity of this type of ulcer This view was taken because the majority of the cases examined and found negative for C. dipatheriae were treated with the formalin swab method before bacteriological examination was undertaken. It was very difficult to obtain early cases for examinat on. Actually we have isolated the diphtheria bacillus from the majority of early cases which we have met with.
- (4) Various concomitant organisms were also isolated from the ulcers and the results tabulated in the text.
- (5) An ulcer was produced in the guinea-pig inoculating C. diphtheriae in the flank and a comparatively small amount of antitoxin intraperitoneally. The ulcer produced was punched out in appearance, covered with a diphtheritic pseudo-membrane, and contained yellow pus. It was very similar to some of the ulcers seen in human beings.
- (6) A typical fuso-spirochaetal ulcer was reproduced in the Egyptian hedgehog (Erinaceus auritus); employing the technique of E. C. Smith. The material used in this experiment was obtained from the case in which spirochaetes and fusiform bacilli were present.
- (7) Attempts to produce ulcers in experimental animals with the other organisms, were not successful.
- (8) The high incidence of syphilis among ulcer cases is very significant. We believe that it is one of the causes which delay healing. The same may be said of deficiency diseases such as pellagra which is prevalent among poor Egyptian patients.
- (9) It is believed that malnutrition renders the individuals more vulnerable to ulceration. The diet of the great majority of the patients suffering from ulcers is chiefly carbohydrate deficient in protein and vitamins specially A, nicotinic acid and riboflavin. Vitamin A was found to be either absent from the serum of the ulcer patients altogether or its level far below the normal.
- (10) The levels of blood serum-calcium and the blood urea were found to be within the normal limits. Estimation of blood sugar revealed low levels and flat curves in some of the cases.
- (11) The rational treatment of ulcers must be based on a thorough investigation of each case. Concomitant diseases such as syphilis, parasitic anaemia, pellagra and other nutritional deficiencies specially avitaminosis A should be treated at the same time. Cutaneous diphtheria should also receive the appropriate treatment with antitoxin.

(12) The application of sulphanilamide powder has been found to be a very effective treatment. Twenty-three cases were treated with this method. Dramatic results were observed after a few applications of the powder. The fever and the constitutional symptoms in very septic cases subsided remarkably quickly.

Action of Antimony on the Adrenaline of the Suprarenal Gland

Published in the Journal of the Royal Egyptian Medical Association August 1944.

SUMMARY.

The animal experiments showed that following the injection of antimony, there was a definite increase in the adrenaline content of the suprarenal glands.

The Value of Tyrosine Index in Malaria and other Endemic Diseases in Egypt

Published in the Journal of the Royal Egypt.an Medical Association August 1944.

SUMMARY.

- (1) The tyrosine serum index in pure cases of malaria is not always increased.
- (2) Other parasitic diseases increase the tyrosine index especially S mansoni infection. The index was also definitely increased in cases of hypertension and pellagra.
- (3) It is very difficult to find pure cases of malaria in Egypt as the great majority of the rural population are very often infected with parasitic diseases and therefore tyrosine cannot be relied upon in the diagnosis of malaria.

Studies on the Carotene and the Vitamin A

Published in the Journal of the Royal Egyptian Medical Association August 1944.

SUMMARY.

- (1) The estimation of carotene and vitamin A content of the human serum was carried in a group of normal people and in groups of patients suffering from various pathological conditions. The average carotene serum value in normal people on a carotene rich diet was 0.17 mg.%, while the average value in normals on carotene poor diet was 0.10 mg.%. The various factors affecting the plasma carotene level have been discussed. There is sufficient evidence that the plasma carotene values are dependent on the dietary intake, the nutritional state of the patients and the degree of the utilisation of food. Low plasma carotene values have been found in cases of pulmonary tuberculosis, pellagra, cirrhosis of the liver and in ancylostomiasis. Relatively high values are found in cases of diabetes and in cases of jaundice.
- (2) The plasma vitamin A level showed marked variation but the average figure in a group of 120 cases was 0.055 mg.%.
- (3) Plasma vitamin A average values are reduced in jaundice, cirrhosis of liver, pulmonary T.B., ancylostoma anaemia and in pellagra. The plasma vitamin A level is no index of the liver store of the vitamin, although a high plasma level usually indicates normal or high stores. A low plasma level on the other hand, may be associated with low or normal liver content of vitamin A. In cirrhosis, for example, a low blood vitamin A level is always associated with a low vitamin A store. On the other hand, in acute infections the liver store increases, in sp te of marked vitamin A deficiency in the level are not known and require further study.
- (4) Night blindness or diminished dark adaptation is common in catarrhal jaundice, cirrhosis of the liver, less common in pellagra and ancylostomiasis. All the cases of night blindness were associated with very low blood vetamin A values. It is recommended that vitamin A as a prophylactic should be given to patients suffering from these diseases. The dark adaptation test if used as a routine will reveal early cases of vitamin A deficiency.

(5) The carotene and vitamin A content were estimated in normal livers and in pathological livers. The average carotene content of normal livers is 0.7 mg.%. There is, however, a wide range of variation. The carotene content of cirrhotic livers and of livers from cases of chronic infection is markedly diminished. The average vitamin A content of normal livers is 3.7 mg.%. A marked diminution in the vitamin A content of cirrhotic livers is a constant finding; the average figure is 0.14 mg.%. The various factors accounting for the diminution of the hepatic reserves are discussed. The vitamin A content of the liver is also diminished in chronic infections but is normal in acute infections. Foetal livers store considerable amount of vitamin A especially in the premature infants.

Avitaminosis Bi in Ancylostoma Anaemia

Published in the Journal of the Royal Egyptian Medical Association August 1944

SUMMARY.

- (1) There is no absolute parallelism between the degree of the anaemia and the amount of vitamin B¹ in the blood, but there appears to be a close relation between the level of vitamin B¹ and the severity of the anaemia. The high figures of vitamin B¹ are associated with high haemoglobin indices. The reverse is also true. This indicates that there is a relative deficiency in cases of ancylostoma anaemia.
- (2) The oedema was present in the three cases which showed the lowest figures of vitamin B¹ in the blood i.e., 5, 5 and 4 gamma %. This finding supports the view of MacKerze which has been already mentioned, that lack of vitamin B¹ plays a role in the causation of oedema of hookworm anaemia. Westenburg also in 1941, while investigating cases of nutritional oedema, observed that the critical level of vitamin B¹ in the blood was 5½ gamma%; a figure below which oedema appears.

An Investigation of a Localised Epidemic of Acute Hookworm Disease

Published in the Journal of the Royal Egyptian Medical Association, August 1944

SUMMARY.

- (1) A localised epidemic of acute hookworm disease occuring in an Egyptian village has been described. The epidemic was due to exposure of the infected men to massive infection with hookworm larvae during the act of evacuating the contents of a septic tank.
- (2) Thirty-five cases were affected and four of them died from the severity of the infection.
- (3) All the cases suffered severely from itching, urticaria, dyspncea and cough. Four cases developed pneumonia, thirty cases asthma, three cases fever, five cases diarrhoea and five cases oedema.
- (4) Vitamin B¹ has been estimated and the results suggest the existence of a deficiency especially in oedematous cases. There was also an evidence of vitamin A and C deficiencies.
- (5) Plasma protein values in the blood were not disturbed. The blood cholesterol was below normal.

On Anaemia in Bilharzial Cirrhosis with Splenomegaly

P. blished in the Journal of the Royal Egyptian Medi al Asso iation, August 1944
Summary.

(1) Twenty-five cases of Bilharzial cirrhosis of liver with splenomegaly were selected free from parasitic infections and submitted to a prolonged haematological study. The bone marrow was examined in all of them by sternal puncture.

The following results were obtained :-

- (1) Anaemia is not an essential feature of Bilharzial cirrhosis of liver associated with splenomegaly, though it is found in the majority of cases due to concomitant disorders,
- (2) The degree of anaemia in this disease is not proportionate to the size of the spleen or the stage of the disease but rather dependent on the heaviness of the associated parasitic infections (specially ancylostomiasis) and on the level of the gastric acidity.
- (3) The anaemia present is mostly normocytic hypochromic in nature. All cases responded completely to full therapeutic doses of iron together with antibilharzial treatment. This is contrary to the statements of previous workers on this subject who stated that iron could only improve but not cure the anaemia.
- (4) Leucopenia was present in 60% of the cases and was found to have a definite relation to the degree of splenic enlargements. No relative increase in the lymphocytes or monocytes in the blood was noted contrary to what was stated by the previous observers.
- (5) The bone marrow showed a leuco-erythroblastic relation in almost all the cases exhibiting enlarged spleens.
- (6) The erythroplastic reaction was proportionate to the degree of anaemia present and was mainly in the form of normoblasts. There was a slight degree of macronormoblastic reaction in splenectomised cases.
- (7) Increased leucopoiesis was observed in all the cases even in those having periphera leucopenia and involved mainly the neutrophil granulocytes.
- (8) It was found that tartar emetic treatment induced an intensive eosinophilic reaction in the bone marrow and a slight inhibition of erythropoisis. This reaction manifested itself in the peripheral blood by a temporary increase in the percentage of eosinophils together with a slight increase in the degree of anaemia.
- (9) A definite macrocytosis was present in all cases in which splenectomy was performed. This macrocytosis appears to be a permanent change in these cases.

Preliminary Report on the Treatment of Amoebic Dysentery with Sulfoguanil

Publi hed in the Journal of the Royal Egyp ian Medi al Association, August 1944.

SUMMARY:

- (1) Nineteen cases of acute amcebic dysentery were treated with sulfoguanil with promising results.
- (2) Five of the cases received very small doses (3 grams daily) as compared with the doses recommended for bacillary dysentery. The improvement in symptoms and the disappearance of E. histolytica from the stools took place after three to seven days from the start of the treatment. One case, however, relapsed ten days after the disappearance of the amoebae from the stools.
- (3) Prompt relief of symptoms and disappearance of E. histolytica from the stools occurred in five patients who received fifteen to twenty tablets daily for 4 to 8 days with the exception of one case who continued to pass cysts although had improved clinically.
- (4) Five other cases of acute amoebic dysentery were treated with moderate doses of sulfoguanil, i.e. 5-10 grams daily for five days, but it was found that the response to the treatment was variable. Two or more courses were often needed before the amoebae disappeared completely from the stools.
- (5) Four cases were treated with large doses, i.e. 17.5 g ams daily for 3 to 5 days with satisfactory results in each case. This showed that in order to achieve a rapid cure of symptoms and disappearance of the amoebae a high concentration of the drug in the stools is required as in bacillary dysentery.

- (6) It was found difficult to estimate the relapse rate after the sulfoguanil treatment. The patients rarely return for periodic re-examinations. Two cases, however, have returned one month after treatment, suffering from acute dysenteric symptoms and with active forms of E. histolytica in their stools.
 - (7) Sulphathiazol was tried in one case but no response to this treatment took place
- (8) A case of Balantidium coli dysentery has been described and treated with sulfoguanil, but apart from the disappearance of the ciliates from the stools no claim can be made as regards a permanent result. Cases of Balantidium coli infection as observed by Dr. Halawani in Iraq usually defy the great majority of the known methods of treatment. They may disappear from the stools for a few weeks in a patient to appear on a later date.
- (9) It appears from a previous experience in Iraq and from the results of the cases mentioned above that sulfoguanil possesses a beneficial effect in the treatment of acute amoebic dysentery. As it is less toxic than emetine, this method of treatment may prove useful in cases in which prompt relief of acute symptoms is required.
- (10) Further trials of sulfoguanil in the treatment of amoebic dysentery are of course required in order to assess the true value of the drug as an amoebicide.
- (11) The haematological examinations carried out during the course of treatment have revealed that sulfoguanil has no significant effect on the blood picture.

A Report on Yellow Fever has been presented to H.E. the Minister of Public Health

Published in the Journal of the Royal Egyptian Medical Association, August 1944.

IV .-- PROTOZOLOGY DEPARTMENT

1.—Detection of Protozoa in the Stools of Suspected Amoebic Dysentery Patients:

Number of specimens examined only one time=600, contains the following Protozoa:-

E.	histo	lytica	:

Vegetative		:			92 130 (21.7%)
E. coli					
E. nana					5 (0.8%)
I. butchlii					. 24 (4.0%)
G. Lamblia					. 46 (7.7%)
Trichomonas		·		*** ***	45 (7.5%)
Chilomastix mesnli			4.		
Coccidia (I. hominis)					1 (0.2%)
Number of negative specimens					. 306 (51.0%)
Number of specimens examined m	nore than	n one t	time		. 500
Total number of examined specim	ens			600+	500=1,100

2.—Comparative Efficiency of Two Successful Technics for the Microscopic Diagnosis of Protozoan Cysts in Faeces:—

Technic 1: Direct faecal film, unstained and iodine stained.

Technic 2: Zinc sulphate centrifugal floatation followed by loop removal (Faust and his co-workers).

Method: 2 cc. of 1:5 emulsion of the suspected stools in water were placed in a Wassermann tube. This was washed two or three times with tap water and centrifuging in every ti e. Then some zinc sulphate solution (33·1%) were placed over the sediment and the tube was thoroughly shaken. Zinc sulphate solution was then added to about half a centimetre before the top of the tube. This solution was then centrifuged for half a minute. A'drop of the supernatent solution was removed by a loop from the surface, placed on a clean slide, and examined microscopically after staining it with iodine.

TABLE No. 97,—Comparative Results for the Diagnosis of Protozoan Cysts from 100 Farcal Specimens by Technics 1 and 2.

		Speci	08			Total number of infections found	Number (percer respective	
					by technics 1 and 2	1	2	
E. histolytica				 	 	14	9 (64 ·30/0)	14 (100%)
E, Coli				 	 	42	27 (64.3%)	42 (100%)
E. nana				 	 	17	14 (82.4%)	17 (100%)
I. butchlii				 	 	9	8 (88.9%)	9 (100%)
G. Lambli				 	 	4	4 (100.00%)	4 (100%)
Ch. mesnli				 	 	5	3 (60.0%)	5 (100%)
All protozoa						91	65 (71.4%)	91 (100%)

3 .- Cultivation of Entamoeba histolytica in hydatid fluid :

It has been shown for the first time that hydatid fluid, obtained from camels, is a suitable medium for the cultivation of E. histolytica. The pH of the fluid has been found to indicate a slightly alkaline reaction which has proven to be a favourable initial reaction for the growth of E. histolytica. It has been found also that the fluid contains vitamins (vitamin B¹. nicotinic acid and v tan in C) and it is believed that E. histolytica requires vitamins for their growth. These vitamins will be quantitatively estimated. The following simple method was followed for the cultivation of E. histolytica in hydatid fluid:—

About 5 cc. of the hydatid fluid were aspirated from the camel's hydatid cysts and placed in a sterile ordinary test tube. The tube was then warmed to the body temperature in a water bath or in an incubator at 37°C. A very small amount of sterile solid rice-starch was added to the fluid which was then inoculated with a loopful (4 mm. n diameter) of the suspected stool. The tube was incubated at 37°C immediately after inoculation. The culture was examined on the second day (after 18-24 hours incubation) and the results recorded after direct microscopic examination of a sample removed from the bottom of the tube by a sterile capillary pippete. It was found that nearly all the cases which were positive in faecal smears gave copious growth in hydatid fluid. A certain percentage (15.21%) of the negative cases (by direct faecal smears) of suspected amoebic dysentery were also found positive in culture.

(This discovery was published in the J Roy Egyp. Med. Ass. August 1944. Other papers on the vitamin content of hydatid fluid will be published later).

4 .- A Case of Coccidiosis:

Occysts of coccidia (about 30 micron x 10 micron) were found in the stools of a girl 10 years old. Her stools were examined for one month at different intervals and the occysts were constantly found.

Some of the infected stools were emulsified with some water and left at room temperature and was daily microscopically examined. During one week the cytoplasm was divided into two sporoblasts each containing four sporozoites. It was concluded that that girl was infected with Isospora hominis. (This case will be published later).

HAEMATOLOGICAL SECTION

The Haematological Section examines the blood of the patients attending the hospital both in the outpatient and inpatient. Complete blood pictures including haemoglobin estimations, red and white corpuscular counts, differential counts, estimation of the icterus index of the blood, d'ameter and volume index of the corpuscles, fragility, platelet count, coagulation and bleeding times. The blood also is being examined for blood parasites such as malaria and relapsing fever.

Table showing the number of cases examined at the Haematological Section.

								Cases
Haemoglobin estimations								6,568
Red corpuscular count								876
White cell count								280
Complete blood pictures								876
Fragility								95
Icterus index								352
Volume index						- 100		66
Diameter index								67
Til I I I I I I I I I I I I I I I I I I I					***			65
						***		1000000
Bleeding time				***			***	80
Coagulation time								80
Sedimentation rate								25
Sternal punctures								51
Malaria								2,250
Filar a	7.1.							74
- Mark Mill 111 111 111 111	- 250	1000	1000	100	000	100	- 100	100

Among the cases diagnosed through examination of the blood are :-

- (1 Three cases of leukaemia.
- (2 Five cases hodgkin's disease.
- (3) one case of leuko-erythroplastic anaemia after splenectomy (this case was most probably one of acholuric jaundice).
- (4) A case of pernicious anaemia with subacute combined degeneration.

The following is a description of some of these cases:

1.—Cases of Leukaemia:

(1) A female patient aged 43 complained of general weakness, malaise, fatigue, lassitude and swelling of the abdomen. She had attacks of vomiting and diarrhoea. Duration of illness was about 18 months before examination.

On examination: there was marked pallor, slight oedema of ankles, and marked abdominal swelling. Heart exhibited systolic murmer over the base. B.P. 110/60. Chest, lungs were free. The bones of the sternum were very tender. Abdomen, liver was moderately enlarged with firm edge, and the spleen hugely enlarged (to the right eliac fossa) hard, and very tender. No other palpable masses in abdomen, no ascites or tender spots, were detected. Urine and stools were free of parasites, Blood picture was as follows:

Hb. 50 %, R.B.Cs. 2,625,000, W.B.Cs. 330,000, Eosinophiles 3 % Lymphocytes 9 % Large mononuclears 4 % Neutrophiles 54 % Myelocytes 22 % Premyelocytes 12 % and Myeloblasts 6 %

Diagnoiss: chronic myeloid leukaemia.

(2) Male patient aged 10 years complained of sore throat, diarrhoea and general weakness since 3 months. There was no history of previous disease of importance. The temperature was 38°C. There was marked emaciation and pallor. The heart and lungs

were free. The liver and spleen were moderately enlarged. There was stomatitis with ulcerations over the tonsils, pharynx and gums. There was also enlarged septic lymphatic glands on both sides of the neck. Marked tenderness over the sternum was easily detected. The urine was normal, and contained no parasitic ova. The stools contained Giardia lambia cysts. The blood picture was as follows: Hb. 65%, R.B.Cs. 3,800,000, W.B.Cs. 8,800, Eosinophiles nil, Lymphocytes 14 %, Large mononuclears nil, Neutrophiles 4%, Myelocytes 4 %, Myeloblasts 78%, Platelets 20,000.

Diagnosis: acute leukaemia.

2 .- Cases of Hodgkin's Disease:

The diagnosis in these cases was dependent mostly on clinical examination. No abnormal blood pictures were met with except in one case with leucocytosis 13,500 and eosinophiles 15 %. The patient had no parasitic infection.

3.- Leuco-erythroblastic Anaemia after Splenectomy:

A male patient aged 18 years complained of general weakness, abdominal colic and ulceration of legs. Splenectomy was performed 8 months before examination. There was no parasitic infestation or history of treatment from parasites. The blood picture was as follows: Hb. 75°/o, R.B.Cs. 3,950,000 and W.B.Cs. 20,000. There were more than 15,000 normoblasts in each cubic millimetre of blood. The fragility of the red blood corpuscles started in 0.48°/o saline and was complete in 0.42°/o. The icterus index was 15 units. The average corpuscles diameter was 8.4 microns. Probably this patient was suffering from familial acholuric jaundice and the splenectomy was performed for this reason. His past and family histories were not available. It is well known, however, that such a normoblastic crisis as that met with in this case might take place after splenectomy.

4.-Leuco-erythroblastic Anaemia with Osteosclerosis:

This patient was a male aged 40 years. He complained of dyspnoea, and fullness in the left upper quadrant of the abdomen. His temperature was 37°C, pulse 84 and respiration 40. The cardiac sounds were apparently normal but the apex was shifted to the left. The breath sounds were absent over the base of the left lung. There was also dullness on percussion over the same area. The spleen was enormously enlarged and hard. The liver was palpable but not tender. There was enlarged lymphatic glands in both groins. The urine and stools were normal. The blood picture was as follows: Hb. 75°/o, R.B.Cs. 4,680,000, W.B.Cs. 41,000, Eosinophiles 3°/o, Myelocytes 8°/o, Neutrophiles 81°/o, Lymphocytes 15°/o, Mononuclears 2°/o, Normoblasts 2°/o, Bleeding time 1¹/4 minute, Coagulation time 2¹/2 minutes, W.R. ++++, and blood urea 17mgms.%.

X-Ray to long bones.—The marrow cavity is very narrow due to encroachment of the bone over the marrow cavity.

Blood Pictures in Splenectomised Cases:

It has been observed that the cases for which splenectomy has been performed within 8 months to 8 years display the following blood pictures:—

- (1) In all cases there was leucocytosis between 11,600 and 29,000. There was nothing to account for this in these patients' clinical condition.
- (2) There was marked eosinophilia (average 11%). Most of the cases had parasites in urine or stools or both, which would explain this eosinophilia. But in one case this parasitic infestation was absent and there was no history of previous infection.

Blood Picture in Cases of Pellagra:

In most of the cases of pellagra examined in the Institute the co-existing anaemia was caused by parasitic infestation either in the urine or stools. In all the cases the anaemia was hypochromic. Pernicious anaemia was never met with in these pellagra cases. Moreover, the anaemia in question does not improve on nicotinic acid alone or yeast alone, but does respond to iron treatment only.

HELMINTHOLOGICAL SECTION

The Effect of the Flooding Method of Sewage Disposal on the Viability of the Eggs of Ascaris
Lumbricoides.

- Dr. I. S. Hilmy, Assistant Professor of Parasitology, Faculty of Medicine, Cairo, and the chief of the Helminthological Department, Found I Institute for Research and Hospital for Tropical Diseases carried on this research and had come to the following, results:—
- 1. Drying beds prepared between December 16 and March 9 contained viable Ascaris eggs. Storage of the manure prepared by the flooding method during that period contained still viable Ascaris eggs after 10 days, After 15 days storage the manure was either free from eggs or contained only dead Ascaris eggs.
- 2. Drying beds prepared during the three remaining seasons, i.e. from Merch 10 to Ju e 11 and June 12 to Sep ember 15 and September 16 to December 15 contained no Ascaris eggs at all or, if any were present, they were not viable.
- All specimens prepared by the piling method during December to March contained viable Ascaris eggs after 25 days of storage. After 30 days of storage no or only dead eggs were present.

(This research was published in the Journal of the Royal Egyptian Medical Association, Vol. 28, No. 5, May 1945, pp. 209-214.)

OUTPATIENT CLINIC

The total number of patients examined at the outpatient clinic during the year 1944 was 7,743 d vided as follows:—

January 615, February and March 1,296, April 429, May 759, June-July 1,509, August 593, September 510, October 809, November 527 and December 696.

All these patients were subjected to the rough clinical examination together with complete examinations of their urines and stools for helminthic ova. Further examinations such as haematological, serological, complete examination of urine, rectal sigmoidoscopic examination or X-rays were done as the condition of the patient required.

Patients found to be infected with parasites were treated in the outpatient. The number treated and the results of treatment are shown in the following tables.

Patients suffering from other diseases were either treated in the inpatient or were transferred to other hospitals giving the details of the investigations which were carried out and the possible diagnosis. The patients transferred to different hospitals during the year 1944, were as follows:—

1.—Diseases of the Heart and Blood Vessels:

Mitral stenosis					 	 	 	 	14
Aortic regurgitation	on				 	 	 	 	13
Mitral stenosis an	d regu	ırgitati	on		 	 	 	 	28
Mitral stenosis an	d aort	ic regi	ırgita	tion	 	 	 	 	9
Heart failure									
Arteriosclerosis									
Hypertension									
Angina pectoris									

2.—Diseases of the Lungs and Respiratory Organs:

Acute bronchitis										
Chronic bronchitis										16
Emphyema and chronic bronchiti	s									34
Pulmonary uberculosis							7		0.5	35
Lobar pneumonia							200		1	13
Lung abscess										
Bronchiectasis		***	***	***			***		***	-
Dlaural offusion			***	***	***	***		***		-
Pleural effusion										
Pleurisy										9

3 .- Diseases of the Nervous System : Hemiplegia *** *** *** Peripheral neuritis 2 Syphilitic myelitis Neurasthenia Multiple neuro-filromatosis Herpes Zoster Paralysis agitans A yotrophic lateral sclerosis Infantile paralysis Bell's palsy 4. - Diseases of the Digestive System : Duodenal ulcer 7 Acid gastritis 18 ... Hypochlorhydria Acute appendicitis Tuberculous enteritis ... 12 Chronic cholecystitis 27 Infective hepatitis 24 Diabetes mellitus... 11 Cancer of stomach 2 Cancer of the head of the pancreas 1 Liver abscess Cirrhosis of the liver, splenomegaly and ascites ... 5 .- Diseases of the Urinary Tract : Acute nephritis ... Subacute nephritis 11 Chronic nephritis 21 Pyelitis Cancer of bladder 12 Enlarged prostate *** *** ... 34 Renal colic Acute gonorrhee... Chronic gonorrhoea Pyonephrosis Hydro-nephrosis Peri-nephric abscess 6.—Miscellaneous: Enlarged glands of neck (T.B.) Syphilitic rash Hodgkin's disease Lympho-sarcoma of neck Pott's disease 3 Small pox Enteric fever

A Report on the Cases of Malaria treated at the Found I Institute Research and Hospital for Tropical Diseases, during the Year 1944.

During 1944, 540 cases of malaria were treated at the Institute; of these 197 were malignant, 318 were benign tertian and 25 were mixed cases. The great majority of the cases were from Upper Egypt. The following table shows the monthly admissions of these cases:—

TABLE No. 98

			Mont	h					Malignant tertian malaria	Benign tertian malaria	Mixed
January		***							55	19	1
February									74	32	5
March	***	***				***	***				
April	***	***	***	***	***	***	***		14	20 17	6
May		***			***	***	***		10		1
June July	***	***	***						16	71	5
August				***			***	'	9	42	3
September			***						3 3 1	31	-
October									1	45	1
November									6	22	-
December									15	19	3
				To	TAL				197	318	25

The relapse rate.—All the cases that attended regularly at the Re earch Institute were givenyfull courses of atebrin and plasmoquine. They were told to return for re-examination if anh recurrence or relapse would take place. The percentage of persons who attended, as tsey were told, did not exceed 10%. The relapse rate was generally high. Some casei relapsed 9 times during one year. The relapse rate was higher in cases of benign tert an malaria and in mixed infections than in malignant malaria.

Some of the manifestations associated with malaria may actually mask its clinical symptoms and render its diagnosis, without the aid of the laboratory, exceedingly difficult if not impossible.

The following special features and complications presented by some of our cases are of such interest from a clinical point of view as to justify recording them here:—

A.—Pulmonary manifestations:

Asthmatic bronchitis			
Pneumonia, broncho-pneumonia and pneumonitis	 	 	10 ,,
Acute bronchitis	 	 	16 ,,
Pleurisy	 	 	1 case,

B.—Gastro-intestinal:

Dysentery									
Jaundice	***		***	 	 	 	 	 	3 ,,
Hepatitis									
Acute appe	ndici	tis		 	 	 	 	 	1 Cases

C .- Renal :

Renal colic							
Acute nephritis							
Oedema	 	 	 	 	 	15	

D .- Nervous manifestations:

	Herpes zoster	 	 	 		 	 	1	case
	Epidemic encephalitis		 	 		 	 	2	cases
	Epileptic	 	 	 		 	 	1	case
	Tetanic	 	 	 	***	 	 	1	,,
	Mienier's syndrome .	 	 	 		 ***	 ***	1	,,
E.	Suprarenal deficiency .								

Pneumonic manifestations:

The incidence was higher in children than in any other age group i.e. 60%. Nine cases were suffering from malignant tertian malaria, while one case only had benign tertian infection. The seasonal incidence was in late autumn and early winter. All the cases occurred in the undernourished class of patients coming from Upper Egypt. The pneumonic manifestations were the presenting symptoms that made the patient attend for treatment. In a few cases it was accidentally discovered.

Generally speaking the objective signs were more prominent than the subjective symptoms did indicate. In some cases on the other hand dyspnora, cough and chest pains were not marked enough, but nevertheless clinical examination revealed marked dullness of a part of the chest, tubular breathing, and crepitations. In four cases the signs were rather suggestive of pneumonitis with persistent localised crepitations which cleared up without passing into the stage of actual pneumonia.

Seven cases were examined by the fluorescent screen just on admission and after completion of treatment. All these cases showed localised opacities that are commonly seen in cases of penumonia or pnuemonitis. In five cases the opacity cleared up after completing the course of treatment of malaria (usually 8 days). On the other hand the clinical signs of consolidation have been observed to persist for a period of 3 weeks. The pneumonitis was more common in the bases of the lungs.

The common blood picture during the pneumonic stage was marked anaemia accompanied by normal or subnormal leucocytic count. There was relative increase in the neutrophilia with a shift to the left, slight monocytosis and normal eosinophilic count. No specific organism was found in the sputum.

Description of a case:

A child of 7 years of age complained of dyspnoea and cough, and gave a history of malaria one week before admission, clinical examination revealed signs of left basal pneumonitis with tubular breathing and bronchophony. The patient was also suffering from general anasarca; a picture reminiscent of beriberi. The heart was normal. The temperature of the patient was 36.5, and the pulse 112. Gametocytes of benign tertian and malignant tertian malaria were present in the blood. Blood picture: H.B. 36°/o R.B.Cs. 1,650,000, W.B.Cs. 9,600, E: 3°/o, N: 76°/o, L: 16°/o, M: 5°/o, diameter index, 6.6, and I.I. 6 units.

The urine contained moderate quantity of albumin and pus. The stools were negative for parasites. The plasma total proteins was 8.0 grams %. The globulin were 5.0 grams % and albumin 3 grams %. The vitamin B¹ of the blood was 4%. The sputum was negative for the Tubercle bacilli. X-ray examination revealed opacity in the left base of a limited extent. There was no hilar gland or infiltration.

Progress.—The patient was given atebrin 1/2 tablet daily for 4 days. He attended 3 days after stopping the treatment. The dysphoea and cough had already diminished, but some crepitations were still persistent. X-ray examination showed complete disappearance of the shadow. One month later screening showed normal lung fields.

Discussion:

Pneumonia as a complication of malignant malaria or as an initial sign has been des cribed by many authors (Castellani, Archibald and Byam). The aetiological cause of the disease is still debated. It is considered by the consensus of opinion that lobar pneumonic or broncho-pneumonia of bacterial origin often complicate malaria due to the low resistance.

of the patient. The clinical and radiological features of some of the cases suggest, however, that the lung affection is due to congestion by the malarial parasites and the crowding of the pulmonary vessels especially those of malignant tertian. The condition seems to be one of pneumonitis rather than pneumonia. Moreover, the disappearance of the lung opacity after the administration of antimalarial drugs as shown by X-ray examination, suggests that the condition is of malarial origin. Nevertheless the possibility of a spontaneous cure cannot be exculted. Tropical eosinophilia such as Loefler's syndrome and allergic shadows were excluded by the absence of other manifestations of allergy, and by the normal eosinophilic count. Shadows due to epituberculosis are excluded by the longer time they take to disappear, by the presence of the hilar flare or glands and by the presence of other tuberculous manifestations. The possibility of the cases met with being due to a virus or a typical pneumonia could not be excluded because they were not unlike those recently described in the literature. However, the longer course of a typical pneumonia may be the only point of difference.

Two cases in the present series were suffering from a condition similar to virus pneumonia. They did not clear up after antimalarial treatment. Applebaum and Shiger (1944) classified the various pulmonary manifestations and found that 4.5% of the cases were affected either with bronchitis or pneumoniasis. They suggested that the pneumonitis is either of malarial origin or in the cases, which do not respond to atebrin, are due to virus pneumonia.

Cases with asthmatic bronchitis.—Asthma was a presenting symptom in 10 cases of malaria of benign or malignant type. It commonly occurred in the chronic relapsing cases in young adults. The clinical features were typical of an ordinary bronchial asthma. The symptoms improved after antimalarial therapy but the condition did not subside altogether. The cases could not be followed up because the patients did not attend after the treatment. Eosinophilia was present when looked for but was not marked. Urticaria and other allergic manifestations were not present.

Asthma as a manifestation of malaria has been referred to by Tallocco in children and Honnard described cases of asthma that were cured after the treatment of the coexisting malaria. This is probably due to the foreign protein literated by the repeated destruction of the red blood corpuscles and liberation of malarial pigment in a sensitised patient.

Nervous manifestations.—A case of malaria simulating acute epidemic cephalitis A man aged 40 years gave a history of repeated attacks of malaria for eight months prior to his admission. He complained of tremors in the hand with irregular j rky movements accompanied by muscular weakness. These symptoms followed gradually the first attack of malaria, but were aggravated after each recurrence. Examination of the nervous system demonstrated the following features: cranial rerves were of normal function. There were tremors in the right hand increased on voluntary movement. These tremors were coarse and of rolling pill character. There was some weakness in the right upper limb. Jerks were quite normal. There was rigidity in the muscular movement of the face (mask face), and general rigidity in the body.

There was no evidence of sensory or cerebral disfunction or loss of coordination. The pyramidal system was apparently intact and the motor functions were quite normal. The muscular tone was normal. The heart and the lungs were apparently normal. The spleen and liver were both slightly enlarged. The haemoglobin was 60%, R.B.Cs. 4,000,000, W.B.Cs. 8,800, E:8%, N:60%, L:22%, M:10%. The blood film was positive for benign tertian gametocytes and malignant tertian crescents. The stools positive for Ancylostoma eggs. The Wassermann reaction was negative in both blood and cerebro-spinal fluid.

Cases of malaria exhibiting intention or cerebral tremors are described in the literature. Von Economo in his book on epidemic encephalitis referred to the fact that cases of malaria may show a picture of epidemic encephalitis. In the above described case the lesion may have affected the pallidal system or other basal ganglia. It may be due to a thrombosis or petechial haemorrhages in the arteries supplying the pallidum.

The following is a description of a case of malignant tertian malaria associated with symptoms of Addison's disease: A man 45 years of age came to the hospital seeking medical

advice because the colour of his face changed from brown to extreme black. This discolouration occurred 1½ months before admission. He gave a history of repeated attacks of malaria one month before his present complaint. The patient also complained of asthenia and marked loss of power. The face was diffusely black. The pigmentation also affected the mouth, tongue and chest. The heart was normal. Examination of the nervous system revealed no abnormality. The B.P. 100/70. X-r-y examination of chest revealed no evidence of tuberculosis. The blood picture was as follows: Hb.: 70°/o, R.B.Cs. 3,500,000, W.B.Cs.: 5,200, E: 24 %, N: 30 %, L: 35 %, M: 9 %, and B: 1 %. Blood films were positive for malignant malaria after adrenaline provocation. The water dilution and concentration tests showed marked disturbance of kidney function. The urine was normal apart from a trace of albumin.

Blood sodium was 330 mg.%. The blood protein was as follows: total 8.0 mg. albumin 5 and globulin 3. Nacl in urine was 18.0 mg% in 24 hours. X ray examination of the urinary system reveals no evidence of calcified tuberculous focus.

Comment: The clinical picture of this case is similar to Addison's disease from various points of view such as the low blood pressure, the marked asthenia, the diffuse-pigmentation, hypoglycaemia and the increase of Nacl excretion in the urine. As no tuber-culous focus was discovered, the finding of malarial infection of the malignant type in this case, might support the hypothesis that malaria was the cause of the suprarenal defice cy,

Acute nephritis associated with molaria: A male adult patient gave a history of a malarial attack was also met with in our series, 10 days before admission to the hospital. The presenting symptoms were urticaria and pain in the loins dating five days after the onset of malaria. Nephritis was suspected. The urine examination revealed the presence of albumin in excess, numerous epithelial and granular casts and excess of red blood corpuscles. The blood pressure was 160/110, the blood film showed benign tertian gametocytes; after quinine administration the urticaria improved. The case did not attend, however, for further observation.

Oedema in malaria cases was present in 12 cases. They occurred in malignant and benign tertian forms. It was more or less related to the severity of the anemia and to the nutritional state. Plasma protein estimations in the few cases, which were examined, did not suggest the presence of hypoproteinaemia although the albumin globulin ratio was inverted. Vitamin B¹ estimation suggested moderate deficiency. A figure of 4 gamma % represented the average finding. Vitamin B¹ deficiency can be explained in the chronic rela sing cases, by the increased needs of the body due to the repeated attacks of pyrexia. Moreover, the presence of a condition of marked anaemia may be a contributory factor as described by us in cases of ancylostoma anaemia. Moreover the diet of the poor people in Upper Egypt was known to be deficient in Vitamin B¹. Four of the cases suffering from oedema were due to a condition of nephrosis as suggested by the urinary finding and normal blood pressure. Three of these cases occurred with malignant malaria and one with benign tertian.

Herpes Zoster has also been seen associated with malaria in a man aged 45 years attending the hospital. The patient was suffering from pain in the chest two days before admission. He gave a history of malaria eight days before. On examination, he presented a picture of herpes zoster with distribution on the chest. The blood film showed benign tertian gametocytes. The blood picture was within normal apart from slight anaemia.

Herpes labialis is common in malaria but herpes zoster has not been previously reported. The present condition is possibly due to the fact that the malarial infection has diminished the resistance of the posterior nerve root becoming susceptible to a virus infection rendering them more vulnerable to the virus of herpes zoster.

Malaria Research Station, Fayed.

SUMMARY OF ANNUAL REPORT, 1944.

The area belonging to this unit extends from Km. 29 (N.) to Km. 67 (S.) on the Suez Canal Road, in between the Bitter Lake Coast (E.) and the Sweat Water Canal (W.).

Villages in the area are: Fayed, Fanara, Kasfareet and Shandour.

Two sub-units follow this unit: one is at Fanara, the other is at Geniefa.

The following has been performed during the year 1944:-

A .- Anti-Anophelines Larvae Measures:

- (1) Paris-Green Dusting.—Al canals and irrigation ditches in the area were periodically dusted with Paris Green mixture weekly.
 - (2) Malariol.-All swamps and drains were oiled weekly.
 - (3) Clearing Measures:
 - (a) All canals, swamps and ditches belonging to the government were cleared con inuously from the weeds and vegetations by gangs belonging to this unit. Special care was given to the Main Malaria Drain which runs along the Suez Canal Road and in which all the drains collect.
 - (b) Canals and ditches not belonging to the government were cleared by their owners. This process was always under supervision of men of this unit.

 178 Malaria notices were issued to people delaying this clearance. Four actions were taken against those who d d not clear their ditches despite the notices.
- (4) Sand collects at the openings of drains, at the bitter lake coast. This was daily looked after and special men removed the accumulated sand daily.
- (5) A large number of small pits and ditches, suitable for Anophelines breeding were filled in completely.
- (6) Oil was put in latrines weekly in places crowded with population and near barracks of the Allied Forces, to combat Culicinae.
- (7) A new ditch dug.—This unit asked the British Overseas Airways Corporation, Kasfareet Airport to dig a new ditch between the Main Drain and the Bitter Lake instead of the one they blocked opposite their bathing beech. This they performed.
- (8) Filing in of a ditch.—An unused ditch running along the Suez Canal Road used to collect some water every now and then, and in which mosquitoes bred very well.

 The Suez Canal Company was asked to fill it in, and this was done.

B.-Blo d Examination:

During 1944, this unit has examined blood films from 14,422 of the inhabitants. Of these 775 samples were positive for malaria with a percentage of 5.37.

Benign tertian malaria ... 587 — 4.07 per cent

Malignant tertian malaria ... 181 — 1.25 ,,

Mixed infection 7 — 0.05 ,,

775 5.37 ,,

C .- Treatment :

All positive cases for malaria were given the necessary treatment. Drugs issued were:

```
1,860 Quinine 5 gr. tablet

130 ,, 2 ,, ,,
90 ,, 2 ,, ,, (with chocolate)

9,498 Atebrin tablet.

1,416 Plasmoquin Co. 1 cgm. tablet.

162 ,, ,,
969 Aspirin tablet.
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D .- Catching Station for Adult Anpohelines :

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17 specimens were caught: — 10 An. pharoensis.
— 7 ,, multicolor.
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E .- Breeding Places for Larvae :

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134 places were spotted — 66 An. pharoensis.

— 57 , multicolor.

— 6 , mauritianus.

— 5 , sergenti.
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F .- Supervision of Prevention of Cultivation of Rice, Samar and Deneba .

Resumé of Work done by the Khanka Malaria Research Station, 1944

The area in which we combat malaria is so wide that it has been divided into four main sections:—

- (1) The first section includes the villages of Abu Zaabal, Kafr Ebyan, Abu Zaabal prison, Abu Zaabal quarries, Abu Zaabal locoshops and houses belonging to it and the Leprosy Colony.
- (2) The second section includes the villages of Khanka, Gebel el Asfar Farm, El Alag and El Minaya.
- (3) The third section includes: Sendewa, El Manayel, Kafr Hamza, Sariakous and El Minayar.
 - (4) The fourth includes : El Marg, El Khusous, El Berka and Kafr el Shourafa.

21,855 specimens have been examined for malaria during this year; of these 2,107 were positive for malaria: 1,590 positive for benign tertian, 515 for malignant malaria and 2 for mixed infection. The incidence of malaria during this year is the least during the last ten years. The following table shows the different sources of the specimens examined:-

Patients attendi	ng the	O.P.							 	5,130
Specimens broug	ht from	n the	vill	ages					 	10,263
"	,,	,,	Lun	atic	Asy	lum			 	118
,,	,,	"	Get	el E	l As	far .	Farn	n	 	4,088
	,,	,,	Abu	ı Zas	abal	Pris	on		 	1,499
	,,			o Sh						269
"	,,	"	Lep	rosy	Col	ony			 ***	271
Other specimens									 ***	217
		al							 	21,855

All breeding places have been examined very carefully at least once every six days and the places in which we found larvae of mosquitoes have been dusted with Paris Green or sprayed carefully with malaricl; and all the drains have been cleared from the wee is. Co. s quently the incidence of malaria during this year decreased a great deal as compared with previous years. Even in the villages which cultivated rice, the incidence of malaria decreased; this is due to the new method of irrigation "alternate irrigating and drying the fields" which decreased the breeding of Anopheles mosquitoes to a minimum.

The following table shows the incidence of malaria according to different ages:-

Ages.	Sp. examined	Benign Tert.	Malignant	Mix. infection
0 - 1 year 1 -10 years 10-20 ,, 20-30 ,, 30-40 ,, 40-50 ,,	475 8,821 4,547 3,842 2,542 1,183 445	30 311 308 464 270 144 63	6 86 95 155 97 49 27	1 41
TOTAL	21,855	1,590	515	2

The highest percentage of maleria les been noticed in patients of more than 50 years of age and the youngest pet ent was 4 months old.

Malaria in Getel el Asjar Farm.—Several labourers are found in this farm to clear all the drairs of the woods and to spray all breeding places with malariol. One trained labourer is also found there permanently to take blood specimens from those who complain of symptoms of malaria at night and send them to the station to be examined. He also collects the adult mosquitees which he finds in the houses of the farmers. He collected 20,468 Culex mosquitees, 132 A opheles mosquitees during the whole year. Many pits and small swamps have been filled by our labourers working at the farm. Owing to the great c re that has been paid to the farm during this year the percentage of malaria in the farm has decreased to 5.8 per cent while it was 13.5 per cent last year.

Malaria in the Lunatic Assylum.—118 specimens taken from patients and (tamurgis) have been examined for malaria; of these 38 proved to be positive for building tert, and 9 for malaria. These specimens were taken from the patients who actually complained of symptoms of malaria and not as a survey of all the patients.

Malaria in Abu Zaabal Prison.—1,499 specimens were examined for malaria and 128 proved to be positive. This number of patients is considered to be very small as compared with the past.

Malaria in Abu Zaabal Loco-Shops.—A group of labourers from the shops helped our labourers in the control measures taken in this area. They dug some new drains, cleared the others of the weeds and filled many pits.

From the workmen who I've there, 269 specimens were taken and examined for malaria and 2 only were positive for berign tert, and one for malignant malaria.

Malaria in Leprosy Colony.—Of 271 specimens taken, only one proved to be positive for malaria.

Cases of Filaria.—139 specimens taken at night from Khanka were examined for micro-filaria; 18 were positive.

Similarly, 129 specimens were taken from El-Manyel and 15 were positive. We have been unable to take specimens from all other villages in the area owing to some obstacles that we could not overcome.

The following quantities were given to the patients in the treatment of malaria during the whole year:—

24,998 tablets of Quinine 5 gr.

2,601 ,, ,, ,, 2 gr.

3,110 ,, ,, chocolate-coated.

4,313 ,, ,, Plasmoquine simple.

525 ,, ,, Atebrine.

5,842 ,, ,, Mepacrine.

Chapter XX.-SUMMARY OF THE WORK OF THE MEMORIAL OPHTHALMIC LABORATORY, GIZA

Another full year's work has been completed, and the Laboratory continues to serve especially as a centre for clinical, pathological and bacteriological research in ophthalmic diseases. It has also carried out the regular pathological work required by the many ophthalmic hospitals throughout the country and in addition participated in the post-graduate training of medical officers for the Ophthalmic Section. The work of the Laboratory may, therefore, be briefly summarised under the following headings:

1 .- Post - Graduate Training .-

Clinical, surgical, pathological and bacteriological instruction has again been provided for candidates in the Diploma of Ophthalmic Medicine and Surgery,

2.—Pathological Section.—

The pathological section of the Laboratory is responsible for the routine reports upon all specimens submitted from Ophthalmic Hospitals. During the year, many specimens of unusual interest were met with.

3.—Clinical Section.—

The Laboratory has no routine out-patient department, so that the cases examined are only those which are recommended for such special investigation as cannot be obtained in the regular hospital clinics. Many cases of interest were again seen during the year.

4.—Research Section.—

The problems connected with trachoma and the acute ophthalmias were those to which special consideration was given during the past year. The treatment of the latter by means of sulphonamides was thoroughly investigated and constitutes the subject of special papers prepared by the staff of the Laboratory. Both for this work and for the other subjects of research, the reader is referred to the special Report published by the Laboratory.

Appendix I

SUMMARY OF THE REPORT OF THE UNIVERSITIES HOSPITALS ADMINISTRATION

Introduction

On May 1st, 1934, Kasr el-Ainy Hospital came under the direction of Fouad I University and ceased to be affiliated to the Ministry of Public Health. Ten years later, i.e. on May 1, 1944, it came once more under this Ministry as a branch of the University Hospitals Administration which formerly consisted of the Kasr-el-Ainy hospital only, but later were incorporated with the Fouad I Hospital, Kasr-el-Ainy h spital and the Children hospital in Cairo and Farouk I University hospitals in Alexandria consisting of the Government hospital, Shatby hospital and Queen Nazli Children hospital.

A brief statement on each hospital follows:-

Fouad I University Hospitals

FOUAD I HOSPITAL.

This hospital, which is one of the largest in the world, is situated on Rodah Island, Cairo, within an area of 53 feddans. It was first planned in 1925 and the foundation stone was laid by late King Found on December 16, 1928.

Work began in the out-patient departments in 1934 and in the in-patient departments in December 1936.

His Majesty King Farouk I graciously inaugurated the hospital on April 23, 1941.

So far, the cos's are in the neighbourhood of one million pounds at pre-war prices. It rivals the best hospitals in the world as regards organization and equipment. When the other new branches are completed, it will accommodate more than 2,000 beds.

These are designed for the treatment of medical, neurological, dermatological, venereal, urological and tropical diseases, in addition to gynaecological sections. There is a special wing for operations consisting of 12 operation theatres each fitted with two operation tables. There are, besides, five operation rooms distributed among the outpatient departments and X ay and dental clinics. There is also a special department for X ay examination and treatment. Radium treatment is applied where medical and surgical treatments have failed.

In addition, there is a school for dentistry with an out-patient department which are considered among the best equipped modern clinics of their kind.

There are two large dispensaries, one for the in-patients and another for the outpatients. There is also a section for reception and another for first aid where emergency cases such as cases of poisoning receive instant aid. Many a life was saved by the prompt treatment afforded by this section. The following table shows the distribution of the hospital accommodation during the years 1937-1944:—

TABLE No. 100

Section	1937	1938	1939	1940	1941	1942	1943	1944
4	1000			100 K 100	1000		D. B. Company	-
Medical Diseases	450	600	450	450	450	450	450	450
Neurological Diseases	-	_	75	75	75	75	75	75
Tropical Diseases		-	-	75	75	75	75	75
Chest Diseases	-	_	75	75	75	75	75	75
Casualty cases	50	50	50	50	50	50	50	50
Dermatological Diseases	-	75	75	75	75	75	75	75
Venereal	_	75	75	75	75	75	75	75
Radiology	43	44	44	44	44	43	43	43
Erysipelas	1	100	_	_	48	48	48	48
Gynaecological Diseases	-	_	_	_	_	_	150	150
Urological	_		_		_		75	75
Penicillin	-	_	-	-	-	-	_	25
TOTAL	543	844	844	919	967	966	1191	1,216

In-Patients Treatment:

The number of in-patients under treatment during 1944 was 19,533, of which 7,314 or 37.9 % were females as against 11,955 in-patients in 1937, i.e. 7,578 more patients or 63 % of their number in 1937. The distribution of patients according to departments was as follows:—

7,574 in medical, 4,679 casualty, 1,050 dermatological, 1,055 venereal, 415 X-ray, 531 erysipelas, 973 urological and 1,462 gynaecological departments.

July and August marked the most congested months of the year, registering 2,038 and 2,058 patients respectively. January was the least with only 1,213.

14,050 patients were discharged improved. Of this number, 1,319 were children and 4,842 females.

3,178 patients were transferred to the out-patient department and 1,278 to other hospitals for further treatment.

Of 1,027 deaths occurring during the year, 265 were females and 111 children. This gives a death rate of 5.3 %.

The following table gives details of patients treated in the Fouad I Hospital during the period 1937-1944:—

TABLE No. 101

	Yes		Discharged	Transf	erred to	Deaths	General	%	Bods in
	104		improved	Out pat.	Other Hosp	Deaths	Total	Deaths	Hospital
1937		 	8,285	2,113	705	741	11,844	6.2	543
1938		 	10,494	2,332	678	904	14,408	6.2	844
1939		 	9,446	3,556	770	905	14,677	6.4	844
1940		 	9,888	3,973	819	- 926	15,606	5.2	919
1941		 	9,606	4,390	891	1,018	15,905	6.4	967
1942		 	10,976	3,690	1,045	1,091	16,802	5.6	966
1943		 	12,863	3,323	1,197	893	18,276	4.9	1,191
1944		 	14,050	3,178	1,278	1,027	19,533	5.3	1,216

It is worthy of mention that 6,266 patients from amongst those under treatment in the medical diseases department were discharged as improved, 1,608 were transferred to the out-patient department and 476 to other hospitals for further treatment and 744 patients died.

The number of patients treated in the casualty section was 4,579 or 23% of all the patients 138 deaths were recorded or 3% of the patients treated there n. Of the casee treated, 1,096 suffered from scorpion sting, of which 97 cases were fatal, all children under 12 years of age; 1,676 suffered from food poisoning with 8 fatal cases; 347 cases suffered from petrol poisoning, mostly children. Seven of these were fatal.

Of 523 suspected fever cases, 236 were removed to the fever hospital for treatment.

279 patients were placed under observation for mental diseases, 236 of whom were referred to the Mental Hospital.

1,097 patients were treated in the urological section which was opened in July 1943.
28 of these died.

Of 1,114 patients treated for skin diseases, 263 were females, 12 deaths were recorded, Of 1,137 patients treated for venereal diseases, 5 died, one a female child and four adult males.

In the gynaecological section, with an accommodation of 150 beds, 1,462 patients were treated with 16 deaths.

Besides, 524 patients were treated in the X-ray section with 25 deaths, and 564 cases were treated for erysipelas with 55 deaths.

The Out-Patient Department:

In 1934, work started in the new out-patient department hitherto accommodated in the old Kasr-el Ainy building. Together with the Radiological and Dental Sections, it occupies a special wing situated apart from the main in-patient building. This wing is a masterpiece of construction and accommodates clinics for all branches of treatment, which are equipped with latest apparatus and appliances. It also accommodates the school for dentistry and the out-patient dental clinic.

The number of patients who attended the out-patient department during 1944 was 1,389,360 composed of 338,933 new patients and 1,050,427 old patients or an average of 4,500 patients daily.

The following table gives the number of out-patients distributed according to the different clinics:

TABLE No 102

	CI	inic			New Patients	Old Patients	Total
Medical			111	***	104,278	194,706	298,9-9
Manusalamiaal			***		6,018	19,620	25,638
Tropical					5,349	16,715	22,064
Chest (T.B.)		111	111		3,461	14,540	18,001
Designation 1			***		52,895	164,448	217,843
(Yunlamina)					2,217	4,580	6,797
Orthopaedic .				411	4,190	11,048	15,238
N				111	18,658	72,240	90,898
Thetatminal					3,185	7,513	10,698
Ophthalmologica					36,608	154,310	190, 18
	Threat		188		19,623	94,027	118,6 0
A					47,460	158,904	206,364
7					6,425	90,636	97,061
Dontal		111	181		28,571	47,140	75,711
				-			
		TOTAL		.4.	338,933	1,050,427	1,389,360

Of the total number of new patients, 167,443 were adult females and 17,354 females under 12 years of age or 54% of the total new patients. Of the total number of old patients 565,405 were adult females and 37,099 female children under 12 ye rs or 57% of the total old patients. The predominance of females was less marked amongst new cases than amongst old cases in medical, ophthalmic, ear, nose and throat diseases sections. The predominance of female patients was marked in the medical and neurological diseases sections. Males predominated in the surgical, orthopaedic, tropical and dental departments.

The medical sections were the most congested with 21.5% of the total patients. The surgical section comes next with 15.6% followed by the dermatological section with 14.9% and the ophthalmic department with 13.7% The urological section was the least with only 5% of the patients. This may be explained by the fact that these diseases are treated in the in-patient departments. This equally applies to the obstetric, orothopaedic, chest and neurological sections where the ratio did not exceed 2% of the number of out-patients.

The number of patients attending the dental out-patient clinic was 75,711 It consists of 28,571 new and 47,140 o d cases. Tooth extraction was done to 30,628 cases, conservatives to 8,451, and prothetics to 8,435. There were 18,197 cases of other diseases. The ratio o females was 46%.

KASR-EL-AINY HOSPITAL

This is the mans on which was 'ormer'y built by Ahmed Ibn e' Ainy the eldest son of Sultan Kash Kidam in 1466-1467 and named after him. It passed through many vicissitudes. It was used as residence of the Ottoman rulers and later converted into a military hospital during the French occupation.

Al Gabarti, the well known Egyptian historian mentioned that this mansion was repaired on Greek style by Mohamed Aly Pasha el Kebir in 1812 and used as a hostel for some t me until in 1825 it was used as a cadet school. When it was proposed to transfer the Mili ary hospital and school of medicine from Abou Zaabal to Cairo, Dr. C ct Bey gave weighty reasons in support of choosing this mansion for the purpose. It is a spacious building, overlooking the River Nile and is access ble to patients being situated in the centre of the City Since then, it has been used as a civil hospital. In 1938, the midwifery school was opened and ever since, the hospital and school of medicine, continued to expand year after year.

To do history justice, it must be mentioned that medical education in Egypt is much indebted firstly to the great reformer. Mohamed Aly Pasha, Head of the Mohamed Aly Dynasty and secondly to Dr. Clot Bey.

Before 1924, the strength of this hospital was 650 beds. During its early days the annual number of in-patients under treatment did not exceed a few hundreds. The population was not yet hospital minded. As the biggest government hospital in the country, severa modifications and additions of the buildings had to be carried out to meet the ever increasing number of patients seeking treatment. The present strength of the hospital is 1,200 or twice its strength when first opened. The in patients number 22,000.

These new construct one necessitated the provision of two operation theatres fitted with the most up-to-date apparatus and equipment. As regards the high standard of efficiency, the Kasr-el-Ainy Hospital rivals any of the argest hospitals abroad.

It is worth mentioning that despite the opening of the Fouad I Hospita' in 1937 and the transfer to it in that year of the medical diseases and X-ray sections, the skin and venereal diseases sections in 1938, the erysipelas section in 1941 and the creation of a new gynaecological section with 150 beds, the strength of the Kasr-el-Ainy Hospital was maintained undiminished by increasing the accommodation in the remaining sections to meet the ever increasing number of admissions. For example, before 1937, the surgical diseases section had an accommodation of 500 beds. Following the transfer of the medical diseases section to Fouad I Hospital this number was increased to 741 beds. Thus while the number of n-patients was 21,378 in 1937, their number was 22,121 in 1944.

Treatment is now carried out in the following sections: general surgery, orthopaedic. nose, ear and throat, gynaeco'ogical and obstetrical departments and ophthalmic sections, It is proposed to further transfer some of these sections to the Found I hospital.

Of 21,416 in-patients under treatment in Kasr-el-Ainy Hospital in 1944, 12,822 were discharged on completion of their treatment, 7,065 were referred to out-patient departments and 106 transferred to other hospitals for further treatment 1,423 deaths were recorded during the year Of this number 535 were females. This gives a death rate of 66 per cent of the patients under treatment. Many of these deaths are brought to hospital in a dying condition as a result of accidents and no sooner they are admitted than they expire. Deaths occugrin in the surgical sections were 1,271 or 90 per cent of total deaths.

Of the total number of in patients, 7,990 were females or 37 per cent. The death-rate for females was a so 37 per cent of total deaths.

Of 14,659 patients treated in the surgical sections, 8 143 were discharged on completion of their treatment, 5,245 were transferred to the out patient department or other hospitals for further treatment, and 1,271 ded.

Of 948 patients treated in the orthopaedic section, 229 were d'scharged on completion of treatment, 696 were referred to the out-patient department and 23 died.

1,537 patients were treated in the ophthalmic section, of whom 1,160 improved, 373 were referred to the out-patient department and 4 died.

Of 1,123 patients treated for ear, nose and throat diseases, 407 comp'eted treatment, 673 were referred to out-patient department and 43 d ed.

Of 443 gynaecolog cal cases treated, 373 were cured, 63 were referred to the out-patient department and 7 died.

Of 2,399 pregnants admitted, 2,200 left the hospital after confinement, 121 were referred to the out-patient department or other hospitals for further treatment and 78 died.

It is interesting to note that surgical patients as well as the beds reserved for them represent 70 per cent of their total number. During the year, 5,309 or 37 per cent of the surgical cases were casualties and 9,350 were ordinary cases. The death-rate amongst casualty cases was 13.5 per cent. This is not considered unduly high in view of the grave and hopeless condition of the casualties on admission.

Cars had the greatest toll with 1,038 casualties, 118 being fatal. Burns come next with 879 casualties, 131 or 35 per cent being fatal. Tram accidents were 550 with 95 or 18 per cent deaths. Falls from heights, ladders etc. were responsible for 1,109 cases with 73 deaths. Quarrels were responsible for 491 casualties with 11 deaths. 124 casualties with one death occurred amongst workmen during the performance of their work.

Other casualties were 3,875 males with 816 infants and 1,434 females with 460 infants. Infant casualties were due either to cars, trams, falls or scalds.

FOUAD I CHILDREN HOSPITAL

Formerly there was no proper hospital for children. There was on'y a moderate out-patient clinic for the treatment of children accommodated at Kasr-el-Ainy Hospital. Sometime afterwards, the child welfare society established and maintained a children hospital of its own at Munira. Later on when it was suggested to provide a special hospital for children, it was agreed to annex this hospital to the University hospitals. It began with a few beds in the in-patient department for the treatment of medical diseases, but since then it has undergone several modifications and expansions.

In 1935, it had an accommodation of 63 beds all reserved for medical diseases. These had been increased to 118. In 1939, a surgery department with 30 beds and an ear, nose and throat department with 9 beds were provided. A dental department with four beds was also provided.

In 1944, the number of beds in this hospital was 161, and treatment is now available not only for medical diseases, but also for ear, nose and throat as well as dental diseases. It is hoped that treatment for all diseases will be provided in the not too distant future.

The number of patients in 1944 was 2,607 as against 1,165 in 1935 or more than twice their number. Of 2,117 medical diseases cases treated during the year, 1,447 were discharged as improved, 107 transferred to the out-patient department for further treatment and 563 or 26 per cent died.

Of 468 surgical cases, 348 were cured, 93 were transferred to the out-patient department and 27 or 5.8% died. The general death-rate was 22 per cent.

The following table shows the number of children treated in the Children Hospital during the last ten years:-

TABLE No. 103

Year				Year				Year Cured or improved Referred to O. P.					Deaths	General total	Percentage of death	No. of beds
1935							844	19	302	1,165	9/0	65				
1936							889	11	346	1,246	27	68				
1937							1,019	25	375	1,419	26	63				
1938							1,108	56	358	1,522	23	114				
1939							1,158	235	360	1,753	20	121				
940							1,249	176	355	1,780	20	145				
941							1,645	62	523	2,230	23	150				
942							1,712	95	511	2,318	22	161				
1943							1,842	92	557	2,491	22	161				
944							1,813	203	591	2,607	22	161				

The highest death-rate was amongst children of premature birth or born with congenital deformities. Next come diseases of the alimentary canal : dyspepsia, intestinal diseases, dysentay, with a death-rate of 43 per cent. Then come diseases of nutrition: atrophy, rickets, pellagra, etc.

The out-Patient Treatment

A special wing in the hospital is reserved for the out-patient department, which includes clinics for all branches of treatment.

The total number of new and old patients seeking treatment during this year was 623,529 as against 263,140 in 1935 or more than twice their number. The male children were almost equal to the females among the old and new patients.

During the year, the medical section was the most crowded with 402,296 patients followed by the skin diseases section with 97,524 patients and ophthalmic sections with, 43,404 patients.

Again July and August were the most crowded with 66,710 and 65,549 patients respectively. These are the two months during which infantile diseases are most common, e.g. enteritis, ophthalmias and skin diseases. January and February had the least number of patients namely 37,835 and 38,798 respectively.

The following table gives the number of patients treated in the out-patient department during the past ten years:-

TABLE No. 104

	2	Cears		New Patients	Old Patients	General Total		
1935			 	10,112	163,028	263,140		
1936			 	130,912	221,413	358,325		
1937			 	137,854	222,771	300,625		
1938			 	145,136	239,286	384,422		
1939			 	153,416	219,619	873,035		
1940			 	186,716	224,494	411,210		
1941			 	211,141	246,829	457,970		
1942			 	202,906	238,324	441,230		
1943				216,545	205,009	421,554		
1944			 	276,770	346,759	623,529		

Intestinal diseases were the most common among children with a total of 83,126 new and old patients. Of this number, 63,407 suffered from dyspepsia and diarrhoea. Diseases of the respiratory system come next with 42,535 patients, of whom 34,297 suffered from bronchitis; then nutrition diseases with 29,894 patients of whom 14,685 suffered from rickets and 9,180 from anaemia.

A total of 20,668 children suffered from infectious diseases amongst whom 5,141 had whooping cough, 1,420 measles, 572 mumps, 360 diphtheria and 11,223 other diseases.

A total of 26,844 patients (13,832 new and 13,012 old) were treated in the radiological section. Those suffering from dental diseases were 2,228 children (1,101 new and 1,127 old) not including ental cases treated in the out-patient department of Fouad I Hospital.

Farouk I University Hospitals, Alexandria

The number of beds during the year was 522 as against 818 in the previous years, i.e a decrease of 296 beds or 36 per cent. This substantial decrease in hospital accommodation was necessitated to provide accommodation for the Faculty of Medicine which formed part of the newly established Farouk I University.

The modern build ng constructed in 1931 to accommodate medical diseases cases of both sexes, skin and ophthalmic cases was evacuated and ceded to the Faculty of Medicine together with the isolation section, the orthopaedic section, the ear, nose and throat and dental sections. This diminution in hospital accommodation affected all the sections, not excluding the children section. The patients were distributed among the other sections except medical diseases patients who were accommodated in Queen Nazly Children Hospital. This great shortage of accommodation was first felt in 1943 following the opening of the Faculty of Medicine.

The following table gives the number of in-patients and beds during the last ten years:—

Year						516	In-Patients	D 11.	General	Death	B	led3
			Lear				improved	Deaths	Total	rate 96	Main Hosp.	Shatby Hosp.
1935	***		***				18,231	1,176	19,409	6	769	80
1936							20,494	1,236	21, 3)	5.7	758	80
1937							23,141	1,261	24,402	5 1	818	80 80 80
1938							20, 70	1,383	2,253	6.2	818	80
1939							19.9 6	1,415	21,341	7	818	80
1940							15, 77	1,319	16 38	8	818	80
1941							15.4 7	1.3 6	16 823	7.8	818	80 80 80
1942							16,895	1.663	18 558	9	818	80
1943							14.935	1.5 1	1 .486	9	522	113
1944					1.0	133	16,154	1,598	17, 52	9	522	113

TABLE N . 105

It will be observed from this table that since 1940, the number of in-patients had steadily diminished. This is attributable to the World War on one hand and the creation of the Faculty of Medicine on the other. During war years, many of the inhabitants evacuated Alexandria and took refuge in other provinces to escape air raids. And there was no alternative than to still curtail the number of beds to give room to the new Faculty of Medicine.

SHATBY HOSPITAL

This is in reality an annex to the Main Hospital where patients are transferred to relieve congestion. Cases which require prolonged treatment are also accommodated therein. This hospital contains 7 sections with a total of 113 beds. Until 1942, the number of beds did not exceed 80. The increase n its strength during 1943 and 1944 was intended to meet the congestion in the main hospital.

Until 1932, the Shatby Hospital was under municipal control. Since then, it was transferred to this Ministry and annexed to the Government hospital.

This is an independent hospital in all respects except the admission of patients all of whom must be admitted through the main hospital, including casaulty cases.

Out-Patient Department.

This is divided into three sections; the first is an independent one and is reserved for the treatment of medical diseases, general surgery, skin, ear, note and threat diseases as well as children diseases. Children medical diseases are, however, treated in the Queen Nazli Children Hospital; the second section is reserved for the treatment of an cylostoma, and the third is for the treatment of ophthalmias.

The following table gives the number of out-patients treated since 1935. This does not include ophthalmia and arcylostoma patients as these are treated independently of the out-patient department.

TABLE No. 106

_	Year		New Patients	O d Patients	General Total	
		 	191,959	514,417	706,376	
		 	194,713 203,895	404,731 259,962	599,445 460,857	
		 	225,788 231,251	309,097	534,885 533,912	
		 	196,051	293,388	489,439	
		 	181,220	288,628 325,777	469,848 511,776	
		 	206,519 178,551	280,482 464,477	487,001 643,028	
					191,959 514,417 194,713 404,731 203,895 259,962 225,788 309,097 231,251 302,661 196,051 293,388 181,220 288,628 185,999 325,777 206,519 280,482	

The endemic diseases out-patient clinic is situated to the South of the main hospital An average of 60 new patients attend this clinic daily. The following is a statement of patients treated during the period from 1936-1943:—

TABLE No. 107

	3	Year		New Patients	Old Patients	General Total	
1936			 	15,582	65,206	80,788	
1937			 	14,865	43,318	58,213	
1938			 	16,750	41,463	58,213	
1939			 	16,600	50,434	67,034	
1940			 	11,572	35,973	47,545	
1941			 	11.402	53,700	65,103	
1942			 	15,005	71,674	86,679	
1943			 	18,929	84,771	103,700	

The ophthalmic out-patient clinic occupies an independent section in the out-patient department. The following is a statement of patients treated during late years.

TABLE No. 108

1000	7	ear		New Patients	Old Patients	General Total	
1938			 	31,975	172,491	204,466	
1939			 	35,202	177,320	212,522	
1940			 	33,798	160,806	194,604	
1941			 	30,289	139,813	170,102	
1942			 	29,465	154,442	183,907	
1943				26,904	133,310	160,214	
1944			 	29,979	215,627	245,606	

QUEEN NAZLI CHILDREN HOSPITAL

This hospital is situated within the Eastern Harbour. It remained under supervision and control of the Municipal Health Authorities until January 1944, when it was handed over to Farouk I University to be annexed to the University Hospitals. The in-patient department is divided into two sections. The first has 33 beds and is reserved for the treatment of children particularly those suffering from medical diseases. Foundlings are also accommodated there until taken over by wet nurses. The second section is reserved for the accommodation of infirms and destitutes. It is proposed to accommodate these elsewhere and their place occupied by patients. It is suggested to gradually provide other sections for surgical, skin, ear, nose and throat diseases and X-ray treatment on the same lines as the Children Hospital in Munica, Cairo, thus it will render the greatest service to a locality which badly needs such a treatment centre.

Out-Patient Department:

This is confined to the treatment of medical diseases in children. An average of 400 children attend treatment daily. It is hoped this department will in the not too distant future, be ready for the treatment of other children diseases.

Appendix II. MEDICAL PERMITS

TABLE NO. 109.-Showing the Number of Practitioners of the Medical and Allied Professions AT THE END OF THE YEAR 1944 AS COMPARED WITH THAT OF THE YEAR 1943

Profession	At the end of 1943	At the end of		
Medical Practitioners	 		3,968	4,032
Veterinary Surgeons	 		481	490
Dental Surgeons			102	516
Dentists without diplomas*	 ***		126	121
Pharmacists	 		1,037	1,052
Asst. Pharmacists*	 		335	333
Midwives	 		716	751

[.] No permits are now issued to persons of these two categories,

TABLE No. 110.—Showing the Number of Persons Authorised to Practise their Professions in Egypt during the last Five Years

Pr	ofessio	on			 1940	1941	1942	1943	1944
Medical Practitioners Veterinary Surgeons			 	 	 113	139	158 29	115 28	100
Dental Surgeons Pharmacists			 	 •	 11 46	13 45	13 45	10	17 25
Midwives Dayas Green Permits White Permits				 	 28 28 2	45 197 2	193	25 276 3	35 77
Barbers			 	 	 5	9	3	11	5

TABLE No. 111— Showing the Nationalities of Persons Authorised to Practise

Medical Professions during 1944

Profession	Egyptians	Italians	Pales- tinians	Greeks	Russians	Total
Medical Practitioners	98 14 15 24 35	1 - -	1 - - -	- 2 -	- - 1 -	100 14 17 25 35

Table No.112.—Showing the Origin of Medical Diplomas whose Holders were authorised to practise Medical Professions during 1944

Profession	Cairo	andria	France	Lebanon	Germany	Switzer- land	Total
Medicine	82	10	1	3	3	1	100
Veterinary Surgery Dental Surgery	14	=	- 1	4	=	-	14
Pharmacy	23 35	=	=	2	=	=	25 35

Table No. 113.—Showing the Origin of Medical Diplomas of Egyptian Practitioners who were authorised to practise Medical Professions during 1944

Profession	Faculty of Medi- cine, Cairo	Faculty of Medi- cine, Alexandria	French. Universities	German	Lebanon	Total
Medicine	81	10	1	3	3	98
Veterinary	14	-	-	-	-	14
Dentistry	12	_	-	_	3	15
Parmacy	23	-	-	-	1	24
Midwifery	35	-	-	-	-	35

TABLE NO. 114.—Showing the Result of the State Examination held during 1944 for Medical Practitioners, Pharmanisms and Denial Surgeons holding Foreign Diplomas for the purpose of obtaining Parmits to Practise their Professions in Egypt

Examination			Number	Egypt	ians	Foreig	ners	Total			
1	Exam	natio	n		Number	Succeeded	Failed	Succeeded	Failed	Succeeded	Failed
Me icine					 24	3	15	1	5	4	20
Pharmacy					 5	1	3	1	-	2	3
Dentistry					 15	2	12	-	1	2	13

Appendix III

REPORT ON THE WORK OF THE CENTRAL, GOVERNORATE AND PROVINCIAL MEDICAL COMMISSIONS

The Central Medical Commission.

During the year 1944, the Central Medical Commission issued 22,900 medical cert ficates with a decrease of 1,780 certificates as compared with the figures of 1943. This decrease is due to the extension of the attributions of Medical Commissions in Governotates and Provinces to cover the granting and approval of sick-leaves up till 60 days and the invaliding out of service of temporary and here called employees and daily paid staff without further reference to the Central Medical Commission for final sanction.

Out of the total number of 22,900, 12,327 were examined for admission into Government Service and for joining educational missions abroad, 7,137 were persionable and temporary officials and 18 candidates for missions abroad and the remailing 5,172 were hors cadre employees.

The ratio of pensionable and temporary officials rejected in the three sessions of examination was 35.2 per cent of the number examined for admission into Government Service. In other words, the ratio of those who succeeded amounted to 64.8 per cent. The ratio of hers cadre employees was 48.1 per cent of the number examined for admission into Government Service, the ratio of those who succeeded was 51.9 per cent.

Out of the number of the pensionable and temporary candidates for admission into Government Service, 24.1 per cent failed in vision, myopia being the main reason for failure in most cases. The ratio of those rejected or found unfit for service on account of defects in the urinary system was 5.8 per cent, the main reason being albumen or traces. The ratio of those rejected or found unfit for service on account of heart diseases was 1.4 per cent, incompetency being responsible in most cases. The ratio of those rejected or found unfit for service on account of other diseases such as varicoceles, hydroceles, apparent poor constitutions or diseases of the respiratory system, etc. was 3.9 per cent.

The number of patients who were examined for sick-leave was 8,001, of whom 5,395 were pensionable and temporary officials, and 2,606 were hors cadre employees.

The number of patients who were suffering from medical diseases and granted sick leave by the Central Medical Commission, or by Cairo District Medical Officers and approved by the Central Medical Commission, was 3,055 pensionable and temporary officials, and 840 hors cadre employees.

The number of patients suffering from surgical and ophthamic diseases was 1,286 pensionable and temporary officials and 700 hors cadre employees.

The percentages of the most prevalent diseases was as follows:-

TABLE No. 115

		nable and ry Officials	Hors Cadr	e Employees
Disease	Number	Percentage to the Total	Number	Percentage to
		0/0	%	0/0
Nose and Larynx	265	6.1	72	4.6
Bronchi and Lungs	286	6.5	99	6.4
Heart and Blood Circulatory System	388	8.9	57	3.7
Stomach and Intestines	208	6.7	57	3.7
Liver	148	3.4	- 42	2.7
Kidney and Cystitis	202	4.6	43	3.8
Neurasthenia and Mental Diseases	159	3.6	18	1.1
Nervous System	97	2.2	26	1.7
Anaemia and General Debility	526	12.1	89	5.7
T.B	225	5.1	118	7.6
Syphilis	_	-	2	1.3
Rheumatism	302	6.9	94	6.1
Fevers	212	4.8	56	3.6
Other Medical Diseases	87	2.0	67	4.3
Eye Diseases	170	3.9	52	3.3
Ear and Dental Diseases	119	2.7	33	2.1
Appendicitis	24	0.5	10	-0.6
Urinary System and Stones	21	0.5	5	-0.3
Various Surgical Operations	650	14.9	410	26.6
Fractures	139	3.1	143	9.2
Minor Surgical Operations (fistula, piles, hernia and				The same of the sa
hydroceles)	160	3.6%	47	2.6%

The number of sick officials and employees who were granted sick leave (1-10 days), by Cairo District Medical Officers or by Markaz and Sanitary Outpost Medical Officers in all the Provinces and Governorates during the year 1944 was 38,965, of whom 29,487 or 76:1 per cent suffered from medical diseases, 7,202 or 18:4 per cent suffered from Surgical diseases and 2,276 or 5:5 per cent suffered from ophthalmic diseases. The number of days of sick leave granted to pensionable and temporary officials only was 114,161.

The number of patients who were granted sick leave from 1-10 days by the Central Medical Commission or by Cairo District Medical Officers and approved by the Central Medical Commission was 1,427 pensionable and temporary officials and 674 hors cadre employees.

The number of patients who were examined by the Central Medical Commission and were not granted sick leave was 326 pensionable and temporary officials, and 171 hors cadre employees.

The number of patients who were examined by the Provincial and Governorate Medical Commissions and were not granted sick leave was 896 pensionable and temporary officials and 947 hors cadre employees.

The number of patients who were granted sick leave from 11 days to 30 days and upwards by the Central Medical Commission and by Cairo District Medical Officers was 2,914 pensionable and temporary officials and 866 hors cadre employees.

The number of those who were granted sick leave over the above-mentioned periods till they were placed on pension by the Central Medical Commission was 16 pensionable and temporary officials. The number of hors cadre employees who were pronounced medically unfit for further service was 191.

The number of patients who were also examined by the Central Medical Commission with a view to deciding their fitness for further service and were found fit was 19 pensionable and temporary officials and 49 hors cadre employees.

Medical Examination of Private and Passenger Pilots:

The number of applicants for licence "A" for private pilots who presented themselves for examination before the Central Medical Commission during the year 1944 was 111, of whom 87 were found fit (77 succeeded in the first session, 10 in the second). The failures were 24 (21 failed in the first session and 3 in the second).

Nine applicants for passenger pilot licence "B" were examined by the Central Medical Commission during the year 1944, and all passed in the first session.

During the year 1944, 92 private pilots attended before the Central Medical Commission for the renewal of their licences, of whom 84 were found fit (80 succeeded in the first session and 4 in the second).

Eighty were examined for the renewal of passenger pilot licences, of whom 76 were found fit (73 succeeded in the first session and 3 in the second). The failures were 4 (3 failed in the first session and 1 in the second).

Provincial and Governorate Medical Commissions:

40,736 medical certificates were issued by the Provincial and Governorate Medical Commissions during the year 1944 with an increase of 4,593 certificates over those of last year.

H. C. 639.2 918.8 11.363 LasoT T & q 3-161 \$10.2 419 Causes of Rejection of Candidates applying for Entry to Service 998 167 623 H G Other Diseases P. & T. 198 11 \$62 H C' -91 12 System Digestive P. & T. H. C. Bystem MOLION P. & T. ö 8 H. C. 49 TB System 128 Circulatory P. & T. OI 103 113 H. C. 30 98 911 mansag Respiratory P. & T. 02 8 88 H. C. 412 216:1 E 351 Ur'nsry System P. & T. LIP 121 211 1:01¢ H C' 911 9 060 8 nois.V Defretive P. & T. 817,1 165 E02-3 BIOL 008 53 984-01 **e2 e2e** Other H C 437 BPI I Examinations 1 283 Other P. A. T. 118 515 1-053 M. Auth. Nafars 61 40 69 Com of Pension 851 8:# egh to H C' 101 6FE-1 1-126 Determination P & T. 68 104 32 14 20 Invaliding H. C. 181-1 1-231 蓝 TA A 03 19 28 Unfit H C 301 *141 120.3 I & .9 35 Objects of Medical Examinations 61 21 Refused H. C. 271 116 611-1 For Sick Leave Number of Cases P. & T 188 168 1,230 Granted H G 5'414 061,7 129 6 P. & T. 190-9 828 - 9 616 01 Repected in 2nd Session Candidates for ni betsejeM noisseS tal 4 2 quu; 1 B Mil 01 OI Unfit 681 3 178 8 11 363 or Admission to Service 314 2.683 946-8 629-11 no terest in and Session Pensionable and 013 GGZ l'emporary Rejected n PIL'I 128 218-1 14un 223 460 286 1 453 1.229 2 825 Gentral Medical Commiss on Cairo. Wher Governorate and Provincial Commissions ŧ TOTAL

TABLE NO.116 .--ANKUAL REPORT ON THE WORK OF THE CENTRAL, PROVINCIAL AND GOVERNORATE MEDICAL COMMISSIONS IURING THE TRAR 1944

B.R. P = Pensionable, T. = Temporary. H.C. = Hors Cardre.

TAMENDA, 11% - REQUING CLASSIFICATION OF DISTASSES CONTRACTED BY OFFICIALS AND EMPLOYMES FOR WHICH SICK LEAVES HAVE BEEN GRANTED BY THE CENTRAL, PROVINCIAL AND GOVERNORATE MEDICAL COMMISSIONS AND BY THE DISTRICT MOS. IN CARGO AND APPROVED BY THE C.M.C. DURING THE YEAR 1944.

1				HO	1 001	LEL'S	4 451
	3/3/		IntoT	P. A.T.	1.286	1,876	3 162
		-		нс	61	32	9.0
		=	Dental Discases	P. A.T.	64	68	891
		10	Fractures	P. & T.	139	181	288
	200	6	Operations	H C	017	\$-0.7¢	181,2
	Dise		Geber Surgicel	T & 9	0.0	894	801.1
	mio	00	moteys graniaU sonois bas	P. & T.	75	8 1	911
	hthe	1	Hydroceles	H. C.		69	21
	9		and of the	H.C.	9	19	110
	and	9	Piles	T & .q	94	163	61.2
3	Surgical and Ophthalmic Diseases	10	Pistulae	P. & T.	10_	- 63 78	811
	Sur	4	MUUTAYT	H C	14_	08	16
			Hernia	P. & T.	34	74	801
600	26	00	Appendichtle	P. & T.	10	292	12 01
9999		04	Est Discusis	H C'	91	22	99
				D. H. G. T. A. 9	- 04	45	18
		-	Eye Discuses	T & .9	120	595	3:2
			WALES OF THE	H. C.	018	2-464	4,374
			latoT	T & I	8,055	1163	1 631
	1	15	Distases	H C	19	543	310
		-	Other Medical	P. & T.	78	580	242
90	1-1	14	Fores	T & 9	212	619	683
8	g jii s	13	Rheamstlens	H. C.	16	838	- 818
*			aund Co	H. C.	300	180	111
Dis		13	silidqyd	T & .9			_1
		=	R.T.	P. & T.	118	99	922
			brio Dasa	H. C.	68	189	63.0
	9889	10	Mervous System	P. & T.	259	260	121.1
	Medical Diseases	0	Ansemia and General Debi ity	H. C.	93	45	89
	lical			H. C. T. 3. q	91	11	120
144	Me	8	Mental Disce ses	P. A. T.	011	23	181
300		4	Netvousness	P. & T. H. C.	- 65	99	102
		9	Oyetia	H. C.	43	193	961
			Las gadin	P. & I.	202	812	123
		10	Liver	P. & T.	148	871	256
	183	4	Stomech and sonitability	H C	_ Lg	118	202
		-	Car. System	H.C.	502	802	922
		69	has treeH	T & A	58R	878	212
		04	Bronchi and Lungs	P. & T.	982	169	069
		-	Anciet one	H. C.	22	16	163
1	-	-	lane - trablement	7 8 7	E 285	1 881	1
					Osminisettin	, Tag	1
-					Don	7	ă,
1						mar.	F
					Medical	Government	
	3/2				2 ·	O de	
	1				Cake	Per	
1	1				8	2	

H.C. - Hors Cadre.

I. - Temporary.

MR Lt. - Propionable.

Appendix IV

REPORT ON THE WORK OF THE CENTRAL STORES

The Central Stores, this year, as in previous years, have obtained the most modern scientific apparatus, surgical instruments and drugs.

The Stores continue to supply all the units of the Ministry with their requirements of these articles and take the necessary steps to provine the Ministry's hospitals and other treatment centres with rations.

The Central Stores, in performing their duties, adhere to a policy of economy and act according to time and circumstances without prejudicing the smooth running of the work in the units.

The Stores, assisted by technical experts, modify specifications of articles required by general adjudications, choosing standard samples consistent with present circumstances.

The stores, in addition, furnished the following new establishments with the necessary equipment.

- 1. Equipment of three new in-patient sections in chest dise ses dispens ries.
- 2. Necessary furniture for the equipment of five travelling child welfare centres transferred from provincial councils to this Ministry.
- 3. Necessary furniture for the enlargement of the Vaccine and Serum Institute at Agouza.
- 4. Equipment of a Bacteriological Laboratory at Damanhour.
- 5. Equipment of a new health office in Cairo.
- 6. Equipment of two new chest dise ses dispersaries.
- 7. Completion of equipment of the village settlement at Marg.
- 8. Equipment of special sections in general hospitals.
- 9. Equipment of five new dental clinics.
- 10. Necessary furniture for the conversion of M hmoudia out-patient clinic to a district hospital.
- 11. Completion of equipment of Zawamel district hospital.
- 12. Equipment of a new central hospital at Manfalout.
- 13. Necessary furniture for the enlargement of nursing schools.
- 14. Necessary furniture for two village ophthalmic treatment centres.
- 15. Equipment of two ophthalmic branches at Zawiet el Naoura and Etsa hospitals.
- 16. Equipment of three new health offices in provinces.
- 17. Equipment of a new skin and venereal diseases clinic in Cairo.
- 18. Equipment of two new clinics of skin and venereal diseases in provinces.
- 19. Equipment of a new bath house for scabies.
- 20. Equipment of three new child welfare centres.
- 21. Necessary furniture for the equipment of three travelling child welfare centres.
- 22. Equipment of a new travelling Leprosy out-patient clinic.
- 23. Equipment of a dairy at the Leprosy Colony.
- 24. Equipment of two new ancylostoma branches in district hospitals.

The work of the Central Stores is briefly shown in the following figures:-

TABLE No. 118

	Kind	of	Work					Number
Receipt vouchers				 	 	 	 	8,149
sue vouchers				 			 	47,938
laims				 		 	 	1,998
orre pondence outward				 	 		 	176.924
orrespondence inward and form	8			 	 	 	 	142,217
ostal parcels despatched				 	 		 	11.535
ostal parcels received				 	 	 		2,986
ailway parcels despatched				 	 			63,212
ailway parcels received						 		23,133
Torkshop labour (articles repaire	(be				 			77,865
Torkshop labour (articles newly	mag	de)		 	 	 	 	132,225

NEW UNITS FROM JANUARY IST. TO 31ST. DEC. 1944.

- 1. A district Hospital at Manfalout.
- 2. Two permanent ophthalmic hospitals at Sennouris and Manfalout.
- 3. Two ophthalmic branches at Etsa and Zawyet-el-Naoura hospitals.
- 4. Two Ancylostoma branches at Girga and Beni-Suef Hospitals.
- 5. Two clinics for skin and venereal diseases at Giza & Deirout.
- 6. A clinic for piles at Boulac Hea'th Group.
- 7. An antemar tal examination bureau.
- 8. A chest diseases dispensary at Port-Said with in-patient section.
- 9. A chest diseases dispensary at Aswan.
- 10. A village sanatorium at Giza.
- 11. Three child welfare centres at Gamalia, Sennouris ond Ismailia.
- 12. A bath-house for scabies at Guezirit-Badran, Cairo.
- 13. Three dental sections at Damanhour, S ebin-el-Kom and Beni-Seuf hospitals
- 14. A section for bone surgery at el-Malek Hospital.
- 15. A chi dren section at Port-Said hospital.
- 16. A section for ear, nose and throat at Damanhour hospital.
- 17. A section for gynaecology at Minia hospital.

TABLE No. 119.—CONTRACTS AND ORDERS IN 1944

			Kind	of V	Vork									Number
General adjudications														270
Local offers														59
Contracts						3.3								58
Local orders							***		***					5 9
						***	***	***		***		***		22
Foreign orders Forms 50 C.G		***			***				***	***				3,599
								***	***			***	200	715
Questions submitted to								***		***	***			63
Contract board meeting									***	***	***	***		1,250
Tenders submitted in	_				ions			***	***	***			***	1,200
Agreements	***		***	***		***	***	***	***	***				4
Miscellaneous orders								***				***		25
Tenders submitted in l	ocal a	dju	dicat	ions	***		***	***	***	***	***	***	4.55	483

Appendix V.

DETAILS OF 1944-1945 BUDGET GRANTS AND EXPENDITURE.

TABLE No. 120. - DETAILS OF BUDGET GRANTS AND EXPENDITURE.

	Budget	Grants	Actual E	rpend.
Tirle I	1943	1944	1943	1944
111101	L.E.	L.E.	L.E.	L.E.
Salaries, Wages and Allowances	931,434	1,094,378	901,547	1,071,608
TITLE II General Expenditures	1,633,600	1,501,500*	1,632,133	1,476,012
Tiviz III				
New Works	477,100	261,720	335,912	132,603
Total	3,042,134	2,860,508	2,860,592	2,680,223

An additional credit of L.E. 185,000 was granted by Law No. 30-1945 to meet increased expenditures under sitle II.

TABLE NO. 121-DETAILS OF POSTS IN THE VARIOUS DEPARTMENTS

Total	1944		861		537	8,443	12,113
To	1943		1,27		548	7,643	11,024 12,173
2	1944		11		254 455	1	
Units	1943		11		195	1	
Central Admin.	1161		11	22.0	435	1	1
Central	1943		11		353	1	1
Enquiry Section	1944		1		11	1	
Sect	1943		11		11	1	
niversity Hos- pitals Dept.	1941		1 2		11	1.	
Universitals	1943		11		11	1	1
al Hygiene Dept.	1161		200		11	1	1
Sorial F	1913	(yill)	18.		11	1	1
Preventive Medi Sorial Hygiene University Hos- cine Dept. Dept. pitals Dept.	1911		484		11	1	
Preventive Med cine Dept.	1943		231		11	1	1
Treat.	1944		293		11	1	
Endemic Dis- Medical Treat- cases Dept. ment Dept.	1943		578		11	1	1
naiemic Die- eases Dept.	1961		2 5		11	1	-
	1943		166	-	11	1	1
Laboratories Dept.	1944		76		11	1	11
Labora	1943		12		11	1	1
Sections	1944		172		11	1	11
General Sections	1913		132		11	1	1
		Technical Posts:	Permanent	Adm. and Clerical	Pernal ent	Hors Cadre pers.	

TABLE. No. 122-DETAILS OF BUDGET GRANTS AND EXPENDITURE.

	Fouad I Univ	ersity Hosp.	Farouk I Unive	ersity Hosp.
	Budget Grents	Actual Expenses	Budget Grants	Actual Expenses
TITLE I				
Salaries, Wages & Allowances	113,890	101,393	34,530	25,876
Title II				
General Expenditures	321,900	347,978+	60,600‡	73,712+
TITLE III				
New Works	14,000	2,353	4,500	1,034
TOTAL	449,790	451,724	99,630	100,622

An Additional credit of L.E. 70000 was granted by law 31-1945 to meet increased expenditures under title II of Found 1st University Hospitals' Budget.

TABLE No. 123 .- Universities Hospitals Administration.

	Found I Hospitals	Farouk I Hospitals	Total
Technical Posts:			
Permanent	. 93	18	111
Temporary	. 239	80	319
Adm. and Clerical Posts:	LI	-	
Permanent	. 40	11	51
Temporary	. 8	-	8
Hors Cadre Personnel	1,342	290	1,632
TOTAL	1,722	399	2121

⁺ An additional credit of L.E. 23000 was granted by law 31-1945 to meet increased expenditure under title II of Farouk Ist University Hospitals' Budget,

[‡] Details of 1943 Budget for these hospitals were not given as these formed part of the Ministry of Education.

Appendix VI.

SUMMARY OF A REFORT ON THE STATE OF PUBLIC HEALTH IN ALEXANDRIA

Population during 1944	 	752,400
Number of births	 	39,722
Number of deaths	 	23,186
Number of infantile deaths	 	8,615
Number of deaths from infectious diseases	 	3,186

DEATHS FROM INFECTIOUS DISEASES DURING 1944

Typhus Exanthem		 	 		 	114
Cerebro-Spinal Fever		 	 		 	24
Typhoid and Paratypl	hoid	 	 		 	141
Scarlet Fever		 	 		 	-
Diphtheria		 	 		 	138
Measles		 	 		 	35
Whooping Cough		 	 		 	4
Mumps		 	 		 	_
Malaria		 	 		 	24
Erysipelas		 	 		 	19
Tetanus		 	 		 	20
Pulmonary Tuberculos	sis	 	 		 200	738
Chicken-Pox		 	 		 	84
Influenza		 	 		 	19
Puerperal Fever		 	 		 	16
Dysentery Am		 	 		 	131
Acute Pneumonia-		 	 			1,581
Leprosy		 	 		 	7
Acute Poliomyelitis		 	 		 	3
Small Pox		 	 	***	 	168

TOTAL 3,186

Appendix VII

REPORT OF THE WORK OF CAIRO CITY HEALTH INSPECTORATE.

Population:

The estimated mid-year population of Cairo in 1944 was 1,457,100.

Births:

The total number of births (excluding still-births) registered during the year was 85,700, with an excess of 9,357 over the previous year, which gives a birth-rate of 58 8 per thousand of population.

Table No. 124 shows the number of births distributed on the various Qisms and their rates per thousand of population.

Still-Births:

The number of still-births registered during the same period amounted to 1,727 making a rate of 20.01 per thousand births.

Deaths

The total number of deaths registered during the year was 54,214 of which 1,480 occurred amongst non-residents. This leaves 52 734 for Cairo proper, with a decrease of 451 than the previous year, which gives a death-rate of 36·19 per thousand of population as compared with 37·4 in 1943; 36·2 in 1942; 28·5 in 1941; 26·9 in 1940; 25·9 in 1939 and 29·1 in the last 5 years (1938–1942). See Table No. 124.

Infantile Deaths:

The total number of deaths of children under one year of age was 18,412 with an excess of 418 over the previous year giving a rate of 214.8 per thousand live births as against 235.7 in 1943; 247.6 in 1942; 197.1 in 1941; 196.3 in 1940; 190.0 in 1939 and 207.7 in the previous 5 years (1938-1942). See Table No. 124 which s. ows the distribution of these deaths in the various districts.

Causes of Infantile Deaths:

Enteritis is still responsible for the largest number of deaths. Out of 18 412 deaths 10,210 were due to enteritis i.e. 55.5 per cent of the total deaths of infants. Marasmus comes next accounting for 5,268 or 28.6 per cent. There were also 1,176 death from general diseases (6.4 per cent),1,008 or 5.4 per cent from chest diseases and 750 or 4.1% from infectious diseases.

Death Inquiries:

The total number of uncertified deaths which required investigation was 27,877 i.e 52.8 of the total deaths of Cairo.

Out of this total, 8,441 deaths were examined by the District M.Os. which makes 30.3 per cent of the total uncertified deaths; 18512 i.e. 66.4 per cent by the District Mowal-idas and the remainder by the Dayas and village sanitary barbers.

Infectious Diseases:

The total number of cases of infectious diseases notified during the year was 20,287 after excluding 1,870 cases from outside Cairo. The total number of deaths was 6,974.

This is to be compared with 27,771 cases in 1943; 20,956 in 1942; 16,612 in 1941; 14,63.2 in 1940; 11,517 in 1939 and 12,342 cases in 1938.

The death-rate of infectious diseases during the year was 13.2 per cent of the total number of deaths, as compared with 15.8 per cent in 1943; 13.9 in 1942; 11.5 in 1941; 10.3 in 1940; 7.5 in 1939 and 8.4 per cent in 1938.

See Table No.125 which shows the number of cases and deaths of the most prevalent diseases distributed in the various districts of Cairo.

Influenza:

The total number of cases notified during the year was 1,823 with 23 deaths making a case rate of 1.2 and a death-rate of .015 per thousand of population as compared with 2,240 cases and 20 deaths and a rate of 1.6 and .014 in 1943; 2,002 cases,41 deaths and a rate of 1.4, and 0.003 in 1942; 1,358 cases,28 deaths and a rate of 0.97, and 0.02 in 1941; 1,851 cases, 30 deaths and a rate of 1.3, and 0.02 in 1940: 1,927 cases, 36 deaths and a rate of 0.697, 0.01 in 1939, and 1498 cases, 36 deaths with a rate of 1.127, and 0.037 per thousand of population in 1938.

Tuberculosis:

The total number of cases notified during the year was 2,849 with 1,727 deaths making a case-rate of 1.9 and a death-rate of 1.2 per thousand of population.

Child Bearing Mortality:

The total number of deaths attributed to this cause was 115 making a rate of 1.3 per thousand of births as compared with 1.4 in 1943; 1.92 in 1942; 2.5 in 1941; and 2.1 in 1940.

Out of this total 35 deaths were notified as puerperal fever making a death-rate of 0.4 per thousand births as against 0.51 in 1943, 0.55 in 1942; 0.9 in 1941 and 0.8 in 1940.

The number of mothers who died within a fortnight of confinement excluding puerperal fever was 80 as against 53 in 1943, 90 in 1942, 104 in 1941 and 117 in 1940. The following is the distribution of these deaths according to causes: 20 eclampsia, 13 haemorrhage, 9 heart failure, 10 rupture of uterus, 8 placenta prieva, 4 septic emia, 6 difficul labour, 2 peritonitis as a result of abortion, 2 nephritis after pregnancy, 1 Caesarean case and 5 infectious diseases.

Disinfection Service:

The total number of rooms disinfected during the year was 81,990, of which 67,257 were carried out by Abbassia disinfection station and 14,733 by Fom el Khalig station.

Table No. 124.—The Population and Vital Statistics of Cairo and its Quarters in 1944 with average Figures for Previous Years

Districts	Population	Number of Deaths	Death- rate per 1000 of Population	Number of Births	Birth-rate per 1000 of Population	Number of Infantile deaths (0-1) year	Infantile Mortality rate per 1000 Births
Ezbekia	59,100	1,658	28.1	2,526	42.7	462	182 · 9
Abdine	92,400	2,393	26.0	3,515	38.0	758	215-6
Bayeda I	72,700	3,256	44.8	5,402	74.3	1,137	210.5
Sayeda II	69,300	2,171	31.3	3,535	51.0	813	230 0
Khalifa	82,400	3,408	41.4	4,592	55.7	1,153	253.0
Darb-el-Ahmar	90,800	3,255	35.8	5,343	58.8	1,210	226 · 5
Mousky	29,000	781	26.9	1,359	46.9	263	193 - 5
Bab-el-Sharia	98,800	3,503	35.5	5,751	58.2	1,261	219 3
Gamalia	84,600	3,267	33.6	5,192	61.4	1,267	244 0
Abbassia	130,600	4,240	32.6	7,747	59.3	1,362	175-8
Shoubra	98,900	3,570	36.1	6,946	70.2	1,248	179.7
Rod-el-Farag	134,000	4,151	30.8	7,450	55.3	1,351	181 - 3
Boulac I	85,100	4,050	47.6	6,837	80.3	1,488	217.6
Boulac II	56,000	1,989	35.5	3,176	56.7	751	236-5
Old Cairo	74,600	3,406	45.7	4,760	63.8	1,252	263.0
Heliopolis	57,900	1,512	26.6	2,38	41.2	451	188 9
Zeitcun	45,400	2,051	45.2	3,226	71.1	744	236.0
Helwan	53,800	. 2,173	40.4	2,88	53 - 7	734	254 1
Sharabia	41,100	1,865	45 4	3,066	74 6	707	230.6
Total for Cairo	1,457,100	52,734	36 · 2	85,700	58-8	18,41	214.8
1943	1,423,300	53,185	37.4	76,34	53 -	17,994	235.7
1942-1938	6,834,500		-				
1937-1933	6,062,000						
1932-1928	5,687,500	Marie Sal		1		San Contract	- Source
1927–1923	4,147,400			1000		1000	

TABLE No. 125.—DISTRICT DISTRIBUTION OF THE PRINCIPAL INFECTIOUS DISEASES IN 1944

111111111111111111	District		Small-pox	pox	Relapsing	psing	Cerebro Spina fever	Spinal	Typbus	bus	Typhoid	pio	Seariet	202	Diphtheria	air.	Measles	los	Te	Totals
The control of the		ropustion	Cases	Desths	Cases	Desibs	воваО	Donths	Cases	Deaths	Cases	Douths	Сався	Deaths	Cases	Deaths	Сивея	Deaths	Cases	Doaths
The control of the	Ezbekia	59.100	67	-	1		-		1 5	101	180	100	1	Ì	1 3	1	1		1	
I		92.400	121	6	1		4	16	10	07	102	26	1°	1	000	100	0			
Ahmar		72,700	117	128	1	1	2	1 63	101	9 00	19	200	0 1	11	81	18	24	60	484	177
Abmar		69.30	12	7	1	1	4	4	99	2	184	7	1	1	85	17	44			
haria 29.00 41 1 4 2 23 6 4 4 8 6 4 4 8 6 4 4 8 6 1 4 4 8 16 4 4 8 16 4 4 8 16 4 4 16 18 <td>Ahmon</td> <td>82,400</td> <td>114</td> <td>4.1</td> <td>1</td> <td>ı</td> <td>2</td> <td>63</td> <td>74</td> <td>12</td> <td>157</td> <td>21</td> <td>1</td> <td>1</td> <td>83</td> <td>29</td> <td>70</td> <td></td> <td></td> <td></td>	Ahmon	82,400	114	4.1	1	ı	2	63	74	12	157	21	1	1	83	29	70			
haria 98,800 13 10 — 4 2 23 6 4 4 84,600 189 18 <	Aumar	90.800	14	0 .	1	1	12	40	77	30	166	2	1	1	101	32	62			
1 1 <td>haria</td> <td>000.60</td> <td>116</td> <td>101</td> <td>1</td> <td>1</td> <td>4.</td> <td>2</td> <td>23</td> <td>10</td> <td>19</td> <td>4</td> <td>1</td> <td>1</td> <td>26</td> <td>8</td> <td>20</td> <td></td> <td></td> <td></td>	haria	000.60	116	101	1	1	4.	2	23	10	19	4	1	1	26	8	20			
130,600 263 16 — 9 4 101 1 132 10 sars 132,600 145 6 6 6 177 37 465 61 132,800 122 6 — 4 3 155 52 180 31 1 134,600 124 16 — 2 117 26 195 2 1 1 1 1 2 1 4 4 4 4 8 24 1 1 1 2 1 1 4		84 600	120	OT	1	1	4	4.	64	16	189	18	1	1	92	15	06			
1 1 <td></td> <td>190 600</td> <td>0.1</td> <td>0</td> <td>1</td> <td>1</td> <td>6</td> <td>4</td> <td>101</td> <td>1</td> <td>132</td> <td>10</td> <td>1</td> <td>1</td> <td>93</td> <td>23</td> <td>30</td> <td></td> <td></td> <td></td>		190 600	0.1	0	1	1	6	4	101	1	132	10	1	1	93	23	30			
arag 174,600 122 6 — 4 — 3 155 180 31 I 36,000 124 16 — 2 — 44 88 24 I 56,000 51 1 — 2 — 137 44 88 24 I 56,000 51 10 — 8 — 47 4 4 4 4 4 4 4 4 4 4 4 4 88 24 4 4 4 4 4 88 24 101 8 5 4 4 101 8		000,000	145	07	1	1	9.	9	177	201	465	61	22	1	143	57	112		-	
Image: contract of the	атао	104 600	199	00	1	1	4	20	155	52	18	31	1	1	12	36	142			
I 56,000 51 10 24 88 24 0 74,600 169 10 8 47 4 0 74,600 169 10 8 47 4 0 0 <t< td=""><td> 0</td><td>85,000</td><td>777</td><td>10</td><td>1</td><td>1</td><td>410</td><td>1</td><td>11</td><td>26</td><td>195</td><td>63</td><td>1</td><td>1</td><td>129</td><td>38</td><td>74</td><td></td><td></td><td></td></t<>	0	85,000	777	10	1	1	410	1	11	26	195	63	1	1	129	38	74			
6 74,600 169 10 — 8 47 4 1 4 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 6 5 2 4 1 6 5 4 1 6 5 4 1 6 5 4 1 6 5 4 1 6 5 4 1 6 5 4 1 6 5 4 1 6		56,000	103	07	1	1	20 1	I	137	44	28	24	1	1	80	34	54			
3		74 600	1001	101	1	1	-	1	69	œ ;	47	4	1	1	53	-	16			
		57,000	150	10	1	1	~ 1	1	1961	69	115	21	1	1	22	17	167	-		
		45 400	001	101	1	1	- 0	13	63	15	179	32	67	1	09	21	45			
41,100 39 2 5 76 9 93		F2 800	00	07	1	1	20.	1	422	7	101	90	1	1	4	13	123			
#£4,100 03 Z — — 5 Z 76 93		41 100	000	00	1	1	41	-	65	6	99	2	1	1	233	5	4			
		41,100	Ro .	N	-	1	2	52	92	00	93	4	1	1	48	6	63			
			-	1	1	1	1	1												
TOTAL FOR CAIRO 1,457,100 2,288 129 92 44 1,784 420 2,889 368 7 -	:		2,288	129	1	1	92		,784	420	2,889	368	50	-	1.435	400	1.366	761	198.6	2.123

TABLE No. 126.—DISTRICT DISTRIBUTION OF UNCERTIFIED DEATHS IN CAIRO CITY, 1944

			Une	ertified Dec	the		Uncertified to Total
District	Total Deaths	No. of death:	No. of deaths in setgetred by Kame' Mowalidas	No. invest, by Sun tary Barbers	No. Invest. by Sani ary Dayas	Total	Rate of Unc Deaths to Deaths
Ezbekia	1,658 2,198 3,56 2,171 3,403 3,255 781 3,56 3,267 4,240 3,50 4,151 4,000 1,980 3,406 1,542 2,051 2,173 1,865	197 545 743 378 943 (29 446 441 327 75 132 15 1, 03 441 810 353 344 461 215	436 1.26 9 9 872 1.651 826 2 6 1,627 834 445 1.032 2 1 2 505 1.138 1,6 2 334 1,017 471 1,001	209 	17	633 1,810 1,732 1,270 2,591 1,455 432 2,068 1,161 (20) 1,164 43) -3,308 1,579 2,718 (87) 1,578 1,578 1,578	38·1 75 4 53 3 57 6 76 1 44·7 55 3 59 3 35·8 12·2 32·6 79·3 79·8 44 5 67·8 72 6 72 7
TOTAL FOR CAIRO	 52,731	8 441	18.512	859	65	27,817	52.8

TABLE No. 127 .- ZYMOTIO DISEASES CASE AND DEATH RATES IN CAIRO DISTRICTS IN 1944

				-	resources and a	
Districts	Population	Number of Cases rocoided	Case rates per 1000 of Population	Number of Deaths	Death-rates per 1000 of Population	Case Mo ta'ity rates per cent.
					1.750	18-4
Mousky	29,000	181	6:345	31	1.172	19.5
Bab-al-Sharia	98,800	6.2	6.498	127	1.274	
Ezhekia	59,100	386	6.53	86	1.455	22 2
Abd ne	92,400	484	5.238	75	.8 1	15.5
Say da I	72,700	517	7.111	177	2.4.4	34.2
Say da II	69,300	511	7.360	57	•591	11.1
721 111	82,400	503	6.101	120	1.456	23.8
41 1	53,800	256	4. 58	26	*483	10.1
20 1 1 11	90,800	593	6:531	124	1.365	20.9
0 1	84,60	495	5.863	73	.8 3	14.7
	98,500	75)	7.5 3	207	2.093	27.6
Shot bra	134,600	611	4.762	119	0.884	18.5
Rod-el-Farag	85,100	485	5.699	123	1.445	24.9
Boulte I		291	5 232	90	1.07	31.1
Boulse II	56,000	7:5	9-534	277	3 713	38.7
Old Cairo	74,600	A STATE OF THE PARTY OF THE PAR	8.913	191	1.462	16.3
Abbassia	130,600	1,168	9. 88	91	1.571	17.1
Helic polis	57,500	532	8.392	84	1 50	22.1
Zeite un	45,400	381	7.883	41	1.020	12.9
Sharabia	41,100	324	1.000	41	1 020	
Forus pop Curpo	1,457,100	9 861	6,787	2,123	1-456	21:5
TOTAL FOR CAIRO	1,401,100	3,001				-

TABLE No. 128.—SMALL-POX CASE AND DEATH RATES IN CAIRO DISTRICTS IN 1944

District	Population	Number of Cases recorded	Case rates per 1000 of Population	Number of Deaths	Death-rates per 1000 of Popu ation	Case mortality rates per cent.
Ezbekia	59.100	67	1.134	1	-017	1.5
Abdine	\$2,400	121	1.310	9	.097	7.4
Sayeda I	72, 00	117	1.(0)	12	•164	10.2
Saveda II	69, 00	128	1.847	1	-017	.7
Khalifa	82,400	114	1.3 3	4	-019	3.5
Darb-el-Ahmar	9 ,800	148	1.630	5	-055	3 3
Mousky	29, 00	41	1.4 4	. 1	.034	2.4
Bab-el-Sharia	98,500	183	1.852	10	111	5 4
Gamalia	84,600	138	1.63	5	-019	3 6
Abbassia	130,600	263	2.0 4	16	122	6 0
Shoubra	18, 00	145	1.466	- 8	.0 0	5 5
Ral-el-Farag	134,60	122	.508	6	.013	48
Boulac I	85,100	124	1.457	16	*188	12 8
Boular II	56,000	51	.911	1	*018	1.9
Old Cairo	74,600	169	2.26	11	*134	6:0
Heliopolis	5,00	130	2 591	4	.070	26
Zeitoun	45,400	69	1 520	12	*132	18-8
Helwan	53,800	99	1 8:0	5	.0.5	5 0
Sharabia	41,100	39	. 949	2	.018	- 3 2
TOTAL FOR CAIRO	1,457 100	2,288	1.570	129	0.087	5 5

TABLE No. 129 -TYPHUS CASE AND DEATH RATES IN CAIRO DISTRICTS IN 1944

District	Population	Number of Cases recorded	Cus- rates per 1000 of Population	Number of Deaths	Death rates per 1000 of Population	Case mortality rates per Cent.
Ezbekia	59,100	51	-863	10	.167	19.6
Ablice	92,400	81	*877	23	-24	28 3
Saveda I	72,700	101	1:389	31	-4 6	3 69
Saveda II	6 300	66	1952	2	.08	3 30
Khalifa	82,400	74	-898	12	•145	16 2
Darb el-Ahmar	90,800	77	*848	30	:330	30 89
Mousky	29,000	23	•793	5	177	21 7
Bali-el-Sharia	98,800	81	. 150	16	161	19 04
Gamalia	81,600	101	1 14	18	-224	17.8
Abbassia	130,600	177	1.3 5	37	•283	20.8
Shoubra	9: ,900	159	1.6:8	52	•525	3.37
Rod el-Farag	134,600	117	*: 69	26	•193	22 2
Boulae I	85,100	137	160	44	.5.7	33.1
Boulac II	5 ,000	65	1-1(1	8	•142	12 3
Old Cairo	74,600	199	2 668	69	•924	34 1
Heliopolis	57,900	89	1 537	15	•197	16-8
Zeitoun	45,400	42	925	4	.08	9 52
Helwan	53,800	65	1.203	9	•167	13.8
Sharabia	41, 00	76	1 849	9	•216	11.8
TOTAL FOR CAIRO	1,457,100	1,784	1.224	420	-219	23,4

TABLE No. 130 .- TYPHOID CASE AND DEATH RATES IN CAIRO DISTRICTS IN 1944

District	Population	Number of Cases recorded	Case rates per 1000 of Population	Number of Deaths	Death-rates per 1900 of Population	rates per cent
Ezbekia	59,100	159	2.690	26	•439	16.3
A1 11 -	92,400	181	1.959	15	•162	8 2
Sayeda I	72.700	121	1.6.4	26	•357	21 6
O J TT	69,300	184	2.655	7	.11	3 8
Khalifa	82,400	157	1.905	21	•253	13.4
Darb-el-Ahmar	90,800	186	2 018	21	•221	11.3
Mousky	29,000	61	2.103	4	•138	6.6
B b-el-Sharia	98,800	18)	1.913	18	182	9.5
Gamalia	81,600	132	1.560	10	.118	7.5
Abbassia	130,600	465	3.560	61	•453	13.1
Shoubra	\$8,500	18)	1.8 0	31	*314	17.2
Rod-el-Farag	131,600	195	1.449	25	.185	12.8
Boulac I	85,100	88	1.034	24	•232	27.2
Boulac II	56,000	47	.839	4	•(55	8.5
Old Cairo	74,600	115	1.512	21	-2.8	17.3
Heliopolis	57,900	179	3.092	32	•421	17.9
Zeitoun	45,400	101	2 2 5	8	•176	7.9
Helwan	53,800	56	1.0.1	5	.0:5	8.8
Sharabia	41,100	93	2 263	9	•218	9 6
Total for Cairo	1,457,100	2,889	1.983	368	•252	12.9

TABLE No. 131 .- CEREBRO-SPINAL FEVER CASE AND DEATH RATES IN CAIRO DISTRICTS IN 1944

District	Population	Number of Cases recorded	Case rates per 1000 of Population	Number of Deaths	Death-rates per 1000 of Population	mortality rates per eent.
Ezbekia	59,100	1	.017			The state of
Abdine	92,400		.043	2	-022	50.0
Sayeda I	72,700	5	•669	3	.041	60.0
Sayeda II	69,300		.07		072	102.0
Khalifa	82,400	5	.061	2	.024	40.0
Durb-el-Ahmar	90,800	12	•132	2 5	•055	41.7
Mousky	29,000	4	.138	2	.069	50 0
Bab-el-Sharia	98,800	4	•040	4	.040	100.0
Gamalia	84,600	9	•106	6	-047	41.4
Abbassia	130,600	6	.046	6	.046	100 0
Shoubra	98,900	4	.040	3	•030	75.0
Rid-el-Farag	134,600	4	.030	_	_	-00
Boulac I	85,100	2 1	*024	1	.012	50.0
Boulac II	56,000		.018	-	-	2 - 5
Old Cairo	74,600	8	•107	-	5 -	- 1
H liopolis	57,900	7	.1:1	5	*086	71.4
Zeitoun	45,400	3	•066	-	4 -	11/4
Helwan	53,800	4	.074	1	.0:9	25.0
Sharabia	41,100	5	122	2	.049	40.0
TOTAL FOR CAIRO	1,45,7100	92	-063	44	-030	47.8

TABLE No. 132.—SCARLET FEVER CASE AND DEATH RATES IN CAIRO DISTRICTS IN 1944

District	Population	Number of Cases recorded	Case rates per 1000 of Population	Number of Deaths	Death-rates per 1000 of Population	Case mortality rates per cent
Ezbekia	59,100	-	_	-	_	- N
Abdine	92,400	3	•022	-	_	-
Sayeda I	72,700	_	-	_		_
Sayeda II	69,300	-	-	-	-	-
Khalifa	82,400	_	-	-	-	-
Darb-el-Ahmar	30,800	_	_	_	_	-
Mousky	29,000	-	-	-	-	-
Bab-el-Sharia	98,800	-	-	-	-	-
Gamalia	84,600	-	-	-	-	-
Abbassia	130,600	2	.015	-	-	-
Shoubra	98,900	-	-	-	_	-
Rod-el-Farag	134,600	-	-	-	-	-
Boulac I	85,100	-	-	-		-
Boulac II	56,000	-	-	-	-	-
Old Cairo	74,600	-	-	-	-	-
Heliopolis	57,900	2	-035	-	_	_
Zeitoun	45,400		-	-	-	-
Helwan	53,800	-	-	-	-	-
Sharabia	41,100					
TOTAL FOR CAIRO	1,457,100	7	.004		_	_

TABLE NO. 133.-DIPHTHERIA CASE AND DEATH BATES IN CAIRO DISTRICTS IN 1944

Districts	Population	Number of Cases recorded	Case rates per 1000 of Population	Number of Deaths	Death rates per 1000 of population	Case mortality rates per cent
			The Blom	The state of	00.870	
Ezbekia	59,100	50	*846	13	-219	26
Abdine	92,400	70	•758	19	-205	27.1
Sayeda I	72,700	81	1.114	. 13	-178	16.4
Sayeda II	69,300	85	1.227	17	.245	20.0
Khalifa	82,400	83	1.007	29	•351	34.9
Darb-el-Ahmar	90,800	108	1.189	32	•352	29.6
Mousky	29,000	26	.897	8	.275	3).7
Bab-el-Sharia	98,800	92	•931	15	•151	16.3
Jamalia	81,600	86	1.017	23	•271	25.7
Abbassia	130,600	143	1.095	57	•436	39.8
Shoubra	98,900	120	1.213	36	*364	30.0
Rod-el-Farag	134,600	129	•958	38	•282	29.4
Boulac I	85,100	80	.940	34	•585	42.5
Boulac II	56,000	53	•946	51	•017	1.8
Old Cairo	74,600	57	•764	17	•227	29.8
Heliopolis	57,900	60	1.036	21	•361	35.0
Zeitoun	45,400	41	.903	13	-286	31.7
Helwan	53,800	23	•428	5	.(192	21.7
Sharabia	41,100	48	1.168	9	.218	18.7
COTAL FOR CAIRO	1,457,100	1,435	.985	400	2:9	27.8

TABLE No. 134 .- MEASLES CASE AND DEATH RATES IN CAIRO DISTRICTS IN 1944

District	Population	Number of Cas- es recorded	Case rates per 1000 of population	Number of Deaths	Death-rates per 1000 of Population	Case mortality rates per cent
			Salara Anna Anna Anna Anna Anna Anna Anna A			13.57/30/3
Ezbekia	50,100	58	• 981	36	.609	62.1
Abdine	92,400	24	•260	7	.076	29.2
Sayeda I	72,700	92	1.265	92	1.265	100.0
Sayeda II	69,300	44	635	26	*375	59.1
Khalifa	82,400	70	.850	52	.631	74.3
Darb el Ahmar	90,800	62	• 683	31	•341	50.0
Mousky	29,000	29	1.000	14	•483	48.3
Bab el Sharia	98,800	90	-911	64	.648	71.1
Gamalia	84,600	30	. 355	13	.154	43.3
Abbassia	130,600	112	. 858	14	•107	12.5
Shoubra	98,900	142	1.436	77	.779	54.2
Rod el Farag	134,600	74	.550	24	.178	32.4
Boulac I	85,100	- 54	• 635	4	.047	7.4
Boulac II	56,000	. 76	1.375	76	1.375	100.0
Old Cairo	74.600	167	2.239	160	2.145	95.8
Heliopolis	57,900	45	•777	14	•242	31.1
Zeitoun	45,400	125	2.753	46	1.013	36.8
Helouan	53,800	9	•167	1	.019	11.1
Sharabia	41 100	63	1.533	10	•243	15.9
TOTAL FOR CAIRO	1,457,100	1,366	937	-761	-523	55.7

Abbassia Fever Hospital

The number of patients admitted to the Hospital during the last three years (persons accompanying patients included) were:—

1942	 	 	15,989
1943	 	 	23,251
1944	 	 	12,517

The number of patients admitted during the year was 10,727. Of these 1,095 died or 10.2 percent. 1,790 persons accompanied patients.

Table No. 135 gives details of infections diseases isolated during 1944.

The following tables deal with some of the diseases separately.

TABLE No. 135-GOVERNMENT FEVER HOSPITAL, ABBASSIA, 1944

-													-
	Cases	Oases	ed ed	Cases admitted within 3 days	nitted	Cases admitted within 4 days	mitted 4 days	Gases admitted after 7 days	lmitted days	C. sent by Hesith Offices	Cases by Hospitals	Cases sent by Private Practi.	Cases admitted at their own request
Adm.	. D.	Adm.	Ď.	Adm.	D.	Adm.	D.	Adm.	D.				
8,468	1,522	699	182	121	31	268	75	280	26	242	103	259	65
1,514		1,281	36	223	100	651	24	271	00			128	147
	1 -/	15	67	6	1	50	1	1	1		•	12	1
1,112	112 150	1,073	128	182	21	4.2	48	479	69		1	335	689
: : :		398	19	88	00	4.2	-		6			111	19
1,1	4	269	19	343	14	176	25		40	118	1	195	103
	202 83	437	82	20	7	254	40					98	43
2,8		1,690	-	1,111	+	397	1					179	106
	67 8	309	26	158	7	96	6	22	10	11	150	21	10
1 1 1 1 1 1	1	1	1	-	1	1 00	1	15	1	100	1 2	1	0
	1	20	1	477	1	77	1		1	707		101	6
	22	200	24	P. P.		0 0		127	1		0		1 00
			2.	7.		01						16	6
	70		# C	df 16	-	10			-		11	25	1 10
		40	101	9	T	77		14	4	-			
A	30	1	1	1	1	1	1	1		1			
B	06 986	908	100	108	1	75	1	1 26	1	27	98	72	23
	674	8 875	476	- 1	-		1		1	1	8	9	772
211	1	0,000	TIL		-	-	-				1		-
TOTAL 18.	18, 929 2, 479	10,727	1.095	2.556	110	100.00	24.5	1,723	560	4,375	2,696	2,138	1,518

TABLE No. 136. AGE AND SEX DISTRIBUTION OF DIPHTHERIA CASES AND DEATHS

		Male			Fema	ile		Tota	ıl		from		ook 3 i	ath	of
Age	No. of	No. of deaths	Mortality Rate	No. of	No. of deaths	Mortality Rate	No. of	No. of deaths	Mortality	Positive	Negative	No. of Cases.	Nc. of Deaths	Mortality Rate	No. of carriers
Under one year	33	-	%	9	_	%	4	_	%	15	27		-	96	-
1—2 years	107	15	14	79	11	13.9	186	26	13.9	103	83	1	-	-	-
2-5 ,,	125	20	15	136	25	18.3	261	45	17.2	148	113	6	-	-	-
5 —10 ,,	15	1	6.6	35	5	14	50	6	12	29	21	4	-	-	-
10—15 ,,	8	-	-	8	1	12.5	16	1	6.2	9	7	1	-	-	-
15—25 ,,	6	1	16.6	. 6	-	-	12	1	8.5	8	, 4	-	-	-	-
25—35 ,,	-	-	-	2	-		2	-	-	2	-	-	-	-	-
Over 35 years	_	_		_	=	_	_	_	_	_	-	-	_	_	-
TOTAL	294	37	12.5	275	42	15,2	569	79	31.8	314	253	12	-	-	-

TABLE No. 137-Age and SEX DISTRIBUTION OF TYPHUS CASES AND DEAFHS

		MALE			FEMALI			TOTAL			of W.		ook 3 in	
Аав		No. of Deaths	Mor- tality Rate	No. of Cases	No. of Deaths	Mor- tality Rate	No. of Cases	No. of Deaths	Mor- tality Rate	Pos.	Neg.	No. of Cases	No, of Deaths	Mor- tality Rate
			%			%			%	-			77.16	%
Less than I year	-	-	-	-	-	-	-	-	-	-	-	-	+	-
1- 2 years	1	-	-	-	-	-	1	-	-		1	-	-	
2-5 ,,	12	3	25	8	1	12.5	20	4	20	15	5	-	-	-
5-10 ,,	10	-	-	12	-	-	22	-	-	16	6	-	-	_
10-15 ,,	33	5	15	19	4	21	52	9	17	39	13	-	-	-
15-25 ,,	164	27	16.5	45	20	44.5	209	47	22.5	154	55	3	-	-
25-35 ,,	165	35	21	31	12	40	196	47	44	152	44	3	-	-
35-45 ,,	71	22	31	31	16	51.5	102	38	37	78	24	2	-	-
45-65 ,,	45	21	47	17	12	70	62	33	53	47	15	-	-	-
More than 65,,	4	3	75	1	1	100	5	4	80	1	4	-	-	-
			_		_									
TOTAL	505	116	23	161	66	49	669	182	27.5	502	163	8	_	

TABLE No. 138-Age and Sex Distribution of PNEUMONIA Cases and DEATHS

	62		Male		Same	Female			Total		19	
Age	17	No. of Cases	No. of Deaths	Rate per cent	427	No. of Deaths	Rate per cent	No. of Cases	No. of Deaths	Rate per cent	Lobar PN.	Bronch PN.
Less than 1	year	13	1	7.6	4	2	50	17	3	17	-	17
1- 2	years	10	3	30	8	1	12.5	18	4	22	4	14
2- 5	",	27	9	33.3	19	2	10.5	46	11	24	12	3
5-10	22	16	3	18.7	17	4	23.5	33	7	21	20	13
0-15	"	9	-	-	12	4	33.3	21	4	20	3	13
5-25	,,	85	9	10.5	10	. 3	30	95	12	12.7	65	30
5-35	"	90	13	14.4	7	2	28.5	97	15	15.5	67	30
5-45	n	61	12	19.0	5	-	-	66	12	18,5	45	21
5-65	,,	32	9	29	5	1	20	37	10	27	20	17
fore than 65		7	4	57	-	-	-	7	4	57	2	5
TOTAL		350	63	18	81	19	22	437	82	18 7	2 13	190

TABLE NO. 139-AGE AND SEX DISTRIBUTION OF TYPHOID FEVER CASES AND DEATHS

	BS A	IALE PT	8.	F	MALE P	TS.		TOTAL			of w.		2 inj	
Aon		No. of Deaths	Morta- li'y Rate	No. of Cases	No. of Deaths	Mor- tality Rate	No. of	No. of Deaths	No ta-	Pos.	Neg.		No. of Deaths	Mor- tality Rate
	100	1	%	p 10	100	%		- re					900000	%
Less than 1 year	1	1	100	-	10	-	1	1	100	1	-	-	-	707
1-2 years	11	4	36	9	4	14.5	20	8	40	16	4	=	-	-
2-5 ,,	= 58	18	13.5	57	.8	13 · 5	115	16	13.8	92	23	1	-	14
5-10 ,,	67	4	6	39	- 3	8.8	106	7	6.7	91	15	5	=	-
10-15 ,,	95	5	5.1	75	7	9.3	170	12	7	127	43	8	-	-
15-25 ,,	23	\$5	10-8	1.4	5	4	356	30	8.8	283	73	35	-	-
25-35 ,,	128	24	19	67	11	16,2	195	35	18	132	63	11	-	-
35-45 ,,	55	6	11.3	21	2	9.5	76	8	10:6	65	11	4	-	-
45-65 ,	16	6	30.7	12	2	17	28	8	2815	23	5	2	-	-
Morethan 65,,	6	3	50	-	+	-	6	3	50	5	1	_	_	_
TOTAL	669	86	12.8	404	42	10.3	1,073	128	11.8	835	238	66	-	-

TABLE NO. 140-AGE AND SEX DISTRIBUTION OF SMALL-POX CASES AND DEATHS

							The last						
s earlier	Mortality Rate	%	1	1	1	4	1		1	6.4	1	100	1.5
Vaccinated 1-3 years earlier	No. of deaths	last 1	1	1	1	1	1	1	1	64	i	1	
Vaccinate	No. of cases		1	1	1	12	-	93	41	37	4	67	197
r earlier	Mortality Rate	%	1	1	1	1	-	1	1	1	1	1	1 1 1
Vaccinated one year earlier	No. of deaths	1	1	1	1	1	1	1	1	1	1	1	1
Vaccina	No. of		1	00	63	10	10	162	84	19	9	63	299
ated y	Mor- tality Rate	%	45.4	12.8	40	25	33.3	22.7	20	41.6	1	1	8
Not Vaccinated in Infancy	No. of Deaths	00	10	8	4	1	1	2	4	20	1	1	8
N	No. of Cases	1	22	1	10	4	8	22	20	12	1	1	100
	Mor- tality Rate	%	33 -3	20	12.9	8.8	1.5	1.1	1.1	6.3	1	1	1.05
Total	No. of Deaths	east in	10	60	4	1	-	9	4	7	1	1	38
	No. of Cases	Tion and	30	15	31	36	69	188	370	110	27	20	1,281
	Mor- tality Rate	%	45.5	25	8.5	4.8	2.8	1.4	1.6	11.8	1	1	6.3
Female	No. of Deaths		10	61	1	-	-	1	63	63	1	1	12
	No. of Cases	A	11	80	12	21	36	72	19	11	60	1	243
	Mor- tality Rate	%	26.3	11.2	15.8	1	1	6.	9.	6.3	1	1	1.9
Male	No. of Deaths	25 / 725	10	1	00	1	1	2	63	10	1	1	12
	No, of Cases	E. 183	19	1	19	15	33	516	309	93	24	77	1079
			:	:	:			:	-		W.	-	
				1	1	*:	0.5	1	1	1	:	0:	00 i
			1	1	-	:	:	:	:	:	7-60	3	01 :
Age			ear	1	1		-:	:	:	:	995	ears	0 :
	0		one)	50	1					-	-	65 y	TOTAL
-	-	-	18II	year	2	*	- 2	2	=	1	2	neu	T
			Loss than one year	1- 2 years	2-6	6-10	10-15	15-25	25-35	35-45	46-65	More than 65 years	

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TABLE No. 141.—Age and SEX DISTRIBUTION OF PLAGUE CASES AND DEATHS

					Male			Female	0		Total		Cult	tures	Sw	abs
	A	GE		1 0.0	No.of death	rate %:	No.of Cases	No.of death	%		No.of death		Pos.	Neg.	Pos.	Neg.
Less than 1 -15 yeas 15-25 , 25-35 , 35-45 ,, More than				 - 7 6 2 -	1	- 14 16 -		11111	111111	- 7 6 2 -	_ 1 1 - -		- 6 5 2 -	- 1 1 -	5 5 2	
	1	COTAL		 15	2	13	-	-	-	15	2	13	13	2	12	50

TABLE No. 142. - PARA-TYPHOID FEVER

A CONTRACTOR OF THE PARTY OF TH			-	2.25	-	777	-				_	-		- 11	00-0
001	2	0	MALE	1		FEMALE			TOTAL	9	Samp	oles of		ook 2 ir	
Agi	-	No. of Caser	No. of Deaths	Peace	No. of	No. of Deaths	Ivace.	No. of Cases	No. of Deaths	Rate	Pos.	Neg.	No. of Cases	No. of Deaths	
Section 1		-		%			%			%		-	-		%
Less than	1 year	1	-	-	-	-	-	1	-	-	1	-	vidios	-	a.T
1- 3	years	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2- 5	"	12	-	-	5	-	1 -0	17	210	-	17	-	-	-	-
5-10	**	13	1	7.5	9	-		22	1	4.8	22		3	-	-
10-15	,,	47	3	6-25	19	1	5	66	4	6	60	6	6	-	1
15-25	,,	128	7	5.5	30	2	6.33	158	9	5.8	146	12	8	-	-
25-35	,,	67	3	4.8	19	-	-	86	3	3.5	80	6	8	-	-
35-45	,,	26	1	4	12	-	-	38	1	2.8	28	-	2	-	-
45-55		1	-	-	7	1	15	8	1	13	8	-	-	-	0
55-65	,,	2	-	-	-	-		2	-	-	2	-	-	-	00-
More tha	n 65,,	-	2-	-	-	-	-	-	2	-	-	-	-	- 10	-
		-	-		-	-				-	-	-		- CO.	and sta
TOTAL		297	15	5	101	4	4	398	19	4.9	374	24	27	-	-

TABLE No. 143 — CEREBRO-SPINAL FEVER

Age Less than 1 year			No.of	96		No.of	0/	No.of	No.of		SHE III	The same		N
Less than 1 year					Cases	deaths			dea: hs	96	Pos.	Neg.	Pos.	Neg
1-2 years 2-5 5-10 10-15 15-25 25-35 35-45 More than 65 years	 	4 2 5 1 5 4 4 2 1 —		100 100 60 	- 2 1 - -	1 - 2 1 - - - -	100 - 100 100 - - - -	2 5 3 6 4 5 2 1	5 2 3 2 3 2 4 2 1	100 100 60 66 50 50 80 100 100	1 1 2 - 1 1 1 7	4 1 3 3 5 3 5 3 4 2 1		- 2 1 3 2 1

TABLE No. 144 .- AGE AND SEX DISTRIBUTION OF DYSENTERY CASES AND DEATHS

. 100 . 100 . 110p.	-1 19	bes las	40 22		Amoetic				
Ago		Male			Female		**	Total	
4 7 7	No. of Cases	No. of Deaths	Mortality Rate	No. of Cases	No. of Deaths	Mortality Rate	No of Cares	No. of Deaths	Mortality Rate
1 0 1	0 91	1 8	%			%			%
Less than I year 1-10 years	=	-	_	_	_	I	_	toria la	and the mo
10-15	3	2 - 85	-	= 1	-	=-	3	10	-
25-85 ,, 35-45 ,,	10	- 1	16.0	-	-	=	10 6 2	- 1	16.
45-G5 ,,	2	2	100	T	-			2	100
More than 65 years	2	2	100	T			2	2	100
TOTAL	33	5	15	- 10 MA	10.000		3	5	15

N.B .- No Bacillary.

TABLE No. 145. ERYSIPELAS.

		Male			Female			Total	
Age	No. of Cases	No. of Deaths	Mortality Rate	No, of Cases	No. of Deeths	Mortality Rate	No. of Cases	No. of Deaths	Mortality Rate
ess than 1 year 1- 2 years	6	2	% 33	3 2	-	%	9 3	2	% 22
5-10 ,,	2 6 6	= = =		6 4 9	=	E	8 10 15	E	-
5-25 ,,	29 26 17	9 -	- 4 6	18 13 19	1 1	7.7	47 39 26	1 2 2	5.7
5-53 ,,	14 7	-1	14	13 2	3	23	27	3	11
ore than 65 years	1	101 0-1		4	2	50	5	2	40
TOTAL	115	5	4 3	93	8	8.6	208	13	6

N.B .- All cases were treated with Sulphanilamide only.

Control of Passengers and Pilgrims

Passengers:

During 1944, a total of 15,745 passengers arrived in Cairo from infected countries as compared with 13,740 in 1943. Of these passengers, 10,075 arrived by air, 1,368 arrived by road via Ismailia, 581 via Suez, 3,689 via Kantara and 30 passengers arrived by sea via Alexandria and 2 via Port Said.

In addition, 9,099 passengers arrived from the Sudan via Shellal and were observed for small pox, meningitis or yellow fever.

With the exception of 19 passengers who could not be traced inspite of repeated enquiries, all the returning passengers or 99.9 per cent were observed and found in good health.

Pilgrims:

The number of Egyptian pilgrims returning from the Hedjaz during 1944 (1363 H.) was 2,281 as compared with 5456 in 1943. All returning pilgrims were observed for the regulation period and found in good health except one pilgrim who could not be traced and 10 falling sick and diagnosed as follows:—

Recovered :	1 Typhus	Died: 1 Tuberculosis
	1 Colitis	1 Typhus
		2 Natural causes
		1 Heart failure
		1 Typhoid
		1 Embolism
		926, I present annual annual
		7 1 1 10 104 10

The personnel of the Tor Lazaret numbering 180 officials and employees were also observed and found in good health.

Sanitary Control of Prostitutes

The total number of registered prostitutes for the year1944 was 629 as compared with 771 in 1943 — 89 were struck off the register during the year.

The total number of examinations held was 27 307.119 prostitutes were found suffering from venereal diseases distributed as follows:—

Chronic Go	onorrho	ea		Elas								
Bartolinitis				***	A. fee				· ···			93
Secondary		S	is off		estad	ares.	1001	ritte		***	titis	
Soft sore												12
								T	otal	***		119

The number of arrested women was 2,609 compared with 4,319 in the year 1943. The incidence of disease amongst them was as follows:—

444
2
3
30
213
10
179
7

Wassermann Examination of the Blood:

Prostitutes: 95 were found positive out of 629.
Arrested women: 197

629.

Complaints against Prostitutes:

Seven complaints were received and all proved to be false.

Unhealthy, Inconvenient and Dangerous Establishments

Under Law No. 13 of August 28, 1904, and arrêté of the Ministry of Interior of August 29 of the same year, the following establishments were licensed during the year 1944 viz:-

ban barmada waru	1st Class	2nd Class	3rd Class
Saha	249	€09	341
Zabt	135	137	£8
Total	384	746	309
GRAND TOTAL	Lapat .	1,529	former

The number of unhealthy, inconvenient and dangerous establishments inspected during year 1944 were 18,299, of which 14,948 complied with sanitary conditions which were lacking in the remaining 3,351.

Procès-verbaux of contravention drawn up under that law during 1944 for establishments exploited without licences were 1,922 and those drawn up for lacking conditions were 1,467, making a total of 3,389.

Seven ministerial arrêtés were issued for insanitary establishments during the year 1944.

Under Law No. 1 of 1904 substituted by Law No. 38 of 1941, 89 cinemas, theatres and other kinds of public establishments were inspected during the year.

Police Health Office

The police force of Cairo was estimated at 9,807 men.

The following is a short description of the work carried out by this office during the year:—

Medical Work:

Policemen examined for sick-leaves			STELLER	594
Other police personnel examined for sick-leaves				1,077
Medico-legal reports				35,436
Persons stung by scorpion and received first aid injections				
Motor-car drivers and cabmen examined for pursuing profe	ession	18	THE STATE OF	382
Policemen and guards examined for admission into service				

Sanitary Work:

Inspection of police units 30

Number of	personnel	vaccinated	against	small-pox	viv Tale	STYP.	0.306		6696
			: EVIOLOT	typhoid (two	inject	ions)	dison	10	595

It was observed that the most prevalent diseases among non-commissioned officers and policemen were: rheumatism, ronchitis, ephritic colic, and wounds. The number of cases of these diseases were 771, 710, 682 and 648 respectively.

The diseases most prevalent among officers and civilians were: rheumatism, colitis, tonsilitis, and general debility. The number of these diseases were: 260, 78, 75 and 69 respectively. 15 members of the police force were sent to the fever hospital suffering from typhoid and para-typhoid. 651 persons were put under observation for infectious diseases during the year.

Sanitation Section

The activities of the Sanitation Section during the year 1944 are summarised as follows:-

1.-Water:

Samples of water have been regularly taken from the different main water supplies of the City, Giza and Helwan in order to ensure its purity. Samples of water have also been taken from different parts of the City and swimming baths.

2.—Free water taps:

Three free water taps have been erected in Cairo.

3.—Slope water gulleys:

Following complaints received against throwing waste water in streets, three slope water gulleys have been erected in the poor quarters of the City.

4 .- Water systems of private buildings:

The Inspectorate approved 10 water systems of private buildings received from Tanzim. These buildings are situated at Helwan.

5.—Quack doctors Squad :

This squad succeeded in pursuing quack doctors, quack dentists and ambulant vendors who sell medicine and drugs without licences.

6.—Complaints:

The number of complaints received and dealt with during 1944 was 2,300 concerning defective sanitary systems in houses, fencing waste lands and cleanliness of streets.

- 7. Steps were taken to protect Cairo water intakes, by forbidding the deposit of refuse on the bank of the Nile.
- 8. Steps were taken to control refuse and manure dumps.
- 9. 3,450 permits were given for evacuttion of private cisterns.

Food Inspection Section

Since the creation of the Food Inspection Section in the year 1936, a strict super vision of the town markets was exercised with a view to combating the adulteration or deterioration of foodstuffs and their protection against contamination.

Law forbidding fruad and adulteration:

During 1943, the anti-adulteration Law, as well as ministerial arrêtés and instructions regulating its execution, were issued. In the current year, there was opportunity favouring the comprehensive execution of this Law, after having over-come all the difficulties which had faced this Section.

One of the provisions of the Law is the taking of specimens from three parts, and sometimes from five.

Owing to war time conditions and the scarcity of bottles and other receptacles for packing specimens, the number of specimens decreased during this year, as compared with previous years.

Thus the number of specimens of milk were as follows:-

	Year			Samples	The entirities of the
positionania	1942	 ***	 ***	19,551	The activities of the I
	1943	 	 	22,890	L-Water.
	1944	 	 	6,890	Sanata of mind

This does not mean that the efforts had slackened nor that its activities had diminished. On the contrary, the efforts were doubled, since the procedure of taking specimens from three parts required twice the amount of work.

Trading in British Army food wastes and other deteriorated provisions:

Though filthy and unsound, camp food wastes are in great demand by the poor because of their cheapness. Trading therein was therefore rife during the year despite the great efforts of the health authorities to stamp it out. Arrangements between camp commands and health authorities to stop this practice were futile. Since food wastes represented a menace to public health, food control squads were instructed to raid places where these wastes were sold, prosecute the dealers and confiscate the foodstuffs.

As regards deteriorated provisions, e.g. flour, cereals, preserved food, etc. it was arranged to deliver these to a certain contractor in Cairo who was placed under sanitary supervision. These provisions are utilised in industry or used as fedder. Only the perfectly sound articles are released for human consumption.

6 .- Complaints:

Trading in fish:

Owing to the war and the high prices of foodstuffs, the restriction of the sale of meat to a certain number of days per week, fish trade has so flourished that merchants often centeal it in order to speculate in its fluctuating prices. Because of this gain, fish which was deteriorated, putrid, or in course of putrefaction, was sold to the public. Special attention was, therefore, paid to fish markets.

Food Control at Giza:

Since the Food Section of the Ministry has withdrawn the Food Control squads which were attached to Cairo Health Inspectorate, the control of foodstuffs in all the extensively scattered suburbs of Cairo which represent the main source of supplying the City with the necessary foodstuffs has now become the responsibity of the Food Control Section.

Summary:

Herewith is a statement giving the number of samples taken from all foodstuffs, those adulterated and their proportion to total samples, quantity destroyed, proces-verbaux drawn up in respect of same, etc.

all the difficulties which had freed this Storm

pared with previous years.

Fresh Foodstuffs:

Such as fruits, vegetables, meat, fish, slaughtered fowls, eggs, massli, mik, cream and flour; of these 11815 okes in weight and 22,250 units in number were destroyed.

Preserved Foodstuffs:

Such as conserved sardines, salad, milk, fruits, vegetables, dried fish and preserved meat; of these 77 okes in weight, and 15,940 units in number were destroyed.

Prepared Foodstuffs:

Such as cooked foodstuffs, salad, pickles bread, cheese, olives, sweet-meat, jam, ice creams, cakes etc.; of these 8,822 dkes in weight and 8,533 und a humber were destroyed.

Dried Foodstuffs:

Nuts, date, cocoa and spices; of these a total of 79.5 okes were destroyed.

Various Liquids:

Such as aerated water, sugar cane juice, syrup, molasses, ice, vinegar, alcoholic drink and colouring matters; of these 15,999.5 litres were destroyed.

Other substances:

Such as unfit receptacles, of which 949 units were destroyed.

NUMBER OF MILK SAMPLES TAKEN DURING 1944 AND THE RATE OF ADULTERATION THEREIN

Number of Samples	Adulterated Samples						Total	Number	O. I.O.	
	Sk'm Sam		Samp'es to water wa		Samp'es and to who was ad	igh Water	number of adu't. samples	of genuine samples	Percentage of adulteration	
	No. of Samples	Rate of adult.	No. of Samples	Rate of adult.	No. of Samples	Rate of adult.	THE STATE		appetro .	
6,800	542	7.8 %	157	2.2 %	134	1.9 %	833	6,057	12 %	

LIST OF CONTRAVENTIONS DRAWN UP DURING THE TEAR 1944

No. of Procès-Verbaux drawn up under law No. 49 of 1941	No. of Proces-Verbaux drawn up against milk ven tors under Arrêté of Ministry of Interior dated 18.5.1925	up under Arrête of the M n try	No. of Process-Verbaux draw up under Arrêté of Caro Governorate dated 27.3 1911 re Internal Markets
1,214	978	163	97
	milk vendors who were lies	A 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	cases of food poisoning . complaints received by the		and .

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Signators by Solitones	FFS DESTROYED BY AGREEMENT STORAGE AND THE ERSULIS OF AN
10 0°E	Y AND KIND OF POODSTUARS OF HEALTH INSPE
analis and Market	LABLE NO. 146.—SHOWING NUMBER, QUANTITY

		Preserved Foodstuffs:
414	driot	Spah as conserved sardings, salad, mille, fraits, vegetable
Remarks	Were	meat, of these T7 oles in weight, and 15,040 units in number
		Prepared Foodstuffs:
notition	moon	Such as cooked foodstuffs, salad, pickles bread, chocse,
lo sgate	Percer	ice cheams, calcos chel; di lata 8,822 dice i felght and 8.5 destroyed.
19 11		2
lo egal noiter	Percen	Dried Foodstuffs:
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	No result	Varipus Liquids:
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Een Cen		Other substances:
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	433	And the second by the second b
	Arti	r Prepare Foods and veg its pre pare reserved in a second in a sec
		Food and and it of the fisher of the oil
		Fresh Foods: Fruits and veg tables. Fish Meat Neat Poulity Salad Cooked or Prepared Food Milk and its products. Vegetables and fruits Saleed fish and sardine T mato juice (ti ec.) Dried fishes Olive oil Lettuce oil Safflower oil Cotton seed oil Other oils fit for food
1		A.—Fresh Focds: Fruits and veg tables. Fish Meat Prulity B.—Cooked cr Prepared Foods O.—Freserved Foods: Jam. Milk and its products. Vegetables and fruits Meats (preserved r 'r'red) Salted fish and sardine T mato juice (ti ec.) D.—Oils: Olive oil Sesame oil Linseed oil Lettuce oil Safflower oil Safflower oil Ootton seed oil Other oils fit for food
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Boulac Health Group

Chest Discases Dispensary:

Number of new patients treated during the year 1944 was 10,745, of whom 919 were T.B. cases. Deaths were 298.

Old patients treated during the year amounted to 6,441 persons distributed as follows:

4,061 T.B. cases.

665 under observation.

484 contacts.

1,231 other chest diseases.

The work done by this section was as follows:-

2,790 home visits

2,397 by nurses 393 by doctor

464 r neumothorax

2,151 sputum analysis

1,728 new cases (919 were positive)

403 old ,, (109 ,,

857 × Ray cases (728 new (323 were positive) ,, 129 old (all ,, ,,

906 contacts 463 children 131 were positive.

349 Left sanatorium | 199 sputum positive. | 150 ,, negative.

Their condition was as follows:

191 improved.

56 did not improve.

47 worse.

55 died.

Surgical section:

Number of cases treated in the out-patients clinic during the year 1944 was 30,131 distributed as follows:—

11,871 new cases. 18,260 old cases.

211 cases were admitted to the in-patient department, 5 cases remained from the previous year. These were distributed as follows:—

133 cured.

65 improved.

10 did not improve.

1 died.

7 remaining under treatment.

Minor operations such as openings, epilation, sebacecus cysts, inserting gypsum for cases of small fractures, or dislocation are performed in the out-patient clinic.

Piles are treated every Tuesday afternoon. Cases treated amounted to 565 of whom 445 were new patients and the remaining 120 were old.

Endemic Diseases Section:

Number of cases treated in this section during the year was 8,982. Work was carried out as follows:—

8656 urinary analysis for Schistosomiasis from whom 2,674 were found suffering from this disease.

8 327 stool analysis for Schistosomiasis and Ancylostoma.

2,712 total number of those suffering from Schistosomiasis

1,283 .. Ascaria

Number of injections given during the year was 18,963 distributed as follows:-

18,394 tartar emetic.

569 emetine.

Number of doses given during the year was 2,290 distributed as follows:-

1221 carbon tetra chloride.

1037 c'eno odium oil.

32 Mail Fern oil

Treatment of 42 new patients was postponed during the whole year.

Child Welfare Section:

Children treated by this section during the year were 22,700, of whom 2,102 were out-patients. Results of examination were as follows:-

4,606 enteritis.

4,255 pneumonia.

48 infectious diseases

3,572 skin diseases.
5,528 other diseases.

146 vaccinated against small-pox.

163 inoculated against diphtheria.

649 visits by Mowalidas. 1,631 attended lectures.

Venereal and Skin Diseases:

51,792 patients were treated in this section during the year. Of these, 31,504 were old patients and 20,288 new .

Results of examinat on of new cases were as follows :--

1,321 gonorrhoea.

813 syphilis.

81 other venereal diseases.

1,804 completed their treatment.

491 did not complete treatment.

Ophthalmic Section:

Number of cases treated in this section during the year amounted to 129,406 distributed as follows :-

6489 treatment postponed. 103998 u der ir at ent. new pat ent 11919

discontinued treatment. 1253

6484 cured. 8936 in proved.

Operations done were 1,928 (796 major and 1,132 minor operations).

74 spectacles.

3 under treatment in the in-patients from previous year.

78 treated in the in-patients section distributed as follows:-

68 cured.

5 improved.

4 did not improve.

4 under treatment.

Dental Section:

Number of cases treated in this section during the year was 6228 distributed as follows:

5550 new cases.

678 old

Gynaecology-Obstetrics Section:

24,514 cases were examined during the year, of whom: --

19,982 new cases. 3,156 old ,,

1,376 Confinemnts.

5 cases were remaining in the in patient section from the previous year.

266 were a mitted this year. Resul s were :-

212 cured.

21 improved.

27 did not improve.

11 under treatment.

medical Diseases Section:

40,050 cases examined during the year, of whom:

21.024 new cases.

19,026 old

4 were remaining in the in-patient section from the previous year, and 128 were admitted this year. The results were:-

32 cured.

65 improved.

21 did not improve.

8 died.

6 under treatment.

The number of cases treated does not include those suffering from any parasitic disease who are many times this number,

Ear, Nose, and Throat Section:

9,769 cases treated during the year, of whom :-

8,215 new cases.

1 554 old

1 case was remaining in the in-patient section from the previous year and 106 cases adm tted this year. The results were :-

72 cured.

24 improved.

10 did not improve.

1 died.

In-Patient Section:

18 cases were remaining from last year (1943).

864 new cases were admitted this year. The results were :-

581 cured.

180 improved.

72 did not improve.

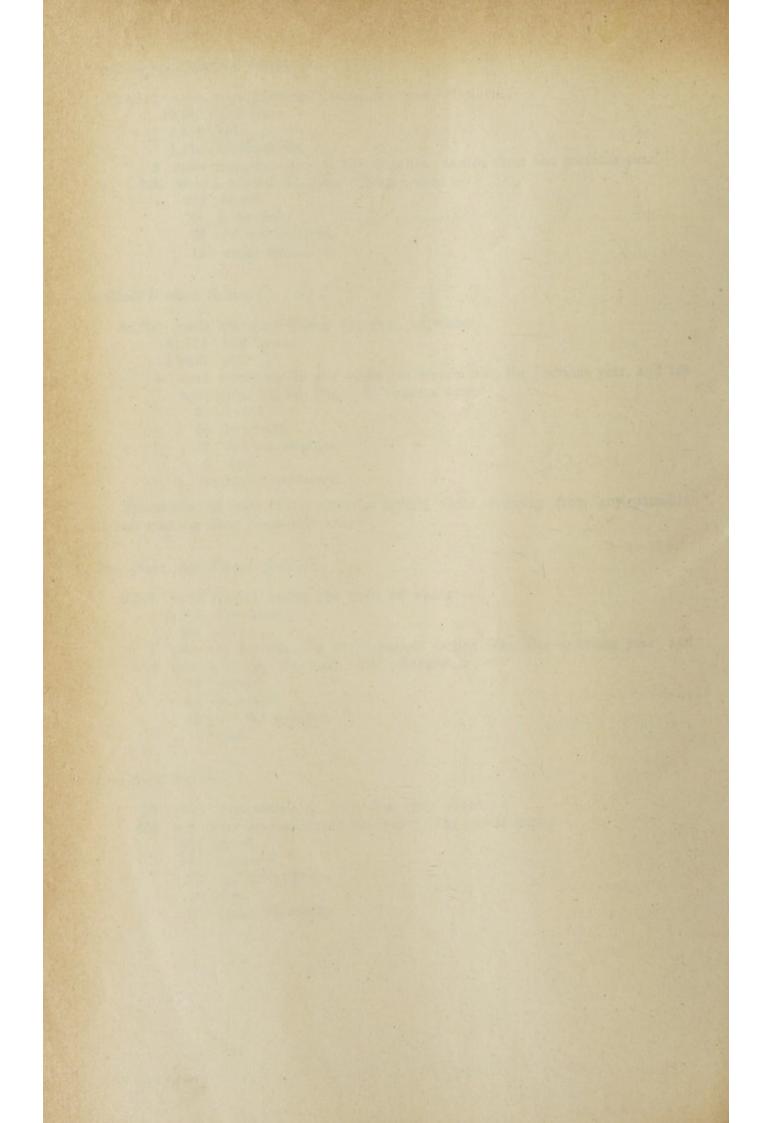
16 died.

33 under treatment.

Number of cases treated in this section during it gives was ours to seem to tollow !

678 old 18









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