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Contributors

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REPORT

ON THE

OPHTHALMIC SECTION

OF THE

DEPARTMENT OF PUBLIC HEALTH,

1912.

THE DIRECTOR OF OPHTHALMIC HOSPITALS.

BY





CAIRO. GOVERNMENT PRESS.

To be obtained, either directly or through any Bookseller. from the PURLICATIONS OFFICE, Government Press, Bulaq : from the SALE-ROOM, Geological Museum, Ministry of Public Works Gardens : or from the SUBVEY DEPARTMENT, Giza (Mudiria).

PRICE P.T. 10.

1914.



MINISTRY OF THE INTERIOR, EGYPT.

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REPORT

OPHTHALMIC SECTION

DEPARTMENT OF PERCHANNE

1912.

The Ababerian on Characteric Research

PART P.T. 10.

Cairo, March 6, 1913.

SIR,

I have the honour to enclose my Report on the Ophthalmic Hospitals and on Ophthalmic Progress in Egypt during the year 1912.

> I have the honour to be, Sir, Your obedient servant, A. F. MACCALLAN, Director of Ophthalmic Hospitals.

To the Director-General, Department of Public Health. there is here in pression

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I have the honour to be No. Your absolved as cause. J. R. Bart terrer.

> To the Interior General, Peper Unicit of Public Realti

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TRAVELLING HOSPITALS.

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TRAVELLING HOSPITAL, FAYÊM. TRAVELLING HOSPITAL, GÎZA. PLAN OF A TYPICAL CAMP.

PLANS OF VARIOUS TYPES OF PERMANENT HOSPITALS.

Asstûr : A commodious hospital of 28 beds ; two stories : designed by Price Bey.

MANSÜRA : A satisfactory and economically built hospital of 20 beds; three stories : designed by Price Bey.

SOHAG : A highly economically built hospital of 14 beds; three stories : designed by M. Pastour.

SHEBÎN EL KÔM : A highly economically built hospital of 14 beds; two stories : designed by M. Pastour.

REPORT ON THE OPHTHALMIC SECTION, 1912.

I.--INTRODUCTION.

ORIGIN OF OPHTHALMIC HOSPITALS.

In 1903 a sum of L.E. 41,000 was placed at the disposal of the British Agent in Egypt (Lord Cromer), for ophthalmic relief in Egypt, by the liberality of Sir Ernest Cassel. A committee was formed under the presidency of the Director-General of the Department of Public Health (Sir Horace Pinching) to decide on the form in which the relief should be given. It was decided, on the proposition of Dr. Osborne, of Alexandria, to establish a hospital consisting of a tent-camp to travel round the country districts, remaining about six months at each place. The present Director of Ophthalmic Hospitals was brought out from England to organize and administer this and other means of relief subsequently inaugurated. These hospitals became a definite branch of the Egyptian Government Service in 1906, in which year the first permanent hospital was built at Tanta.

Between the beginning of the year 1904 and the end of 1912, eight ophthalmic hospitals have been opened by the Ophthalmic Section of the Department of Public Health in various parts of Egypt. During the year 1913 six new hospitals will be inaugurated. For each of these fourteen establishments both the initial outlay and the cost of maintenance is assured; two were provided and endowed by Sir Ernest Cassel, six are being provided and maintained by local self-taxation (Provincial Councils), while of the remainder, which are all maintained by the Government, the initial cost was borne by public subscription, gift, local taxation, or grant from the Treasury (see Table III). The acceleration in the provision of hospitals which has recently taken place has been due to the interest displayed by Lord Kitchener in the means of ophthalmic relief.

Permanent Ophthalmic Hospitals .- Both permanent and travelling hospitals have their place in the Egyptian system of ophthalmic relief, and each of these types has two or more varieties. The permanent hospitals which are now being built in the capital town of each province by the Government architects have accommodation for fourteen in-patients. Some of the hospitals previously constructed, such as those of Assiût and Mansûra, are much more commodious and were to a corresponding extent more costly. But the small type of hospital has been found sufficient for the needs of several of the fourteen provincial capitals. The initial outlay required, which must be provided locally, either by self-taxation, subscription, or gift, is about L.E. 5,000. The expense of maintaining such a hospital, including the salaries of two Egyptian surgeons, is defrayed by the Government at a cost of L.E. 1,500. The number of patients which can be treated a day is from 200 to 300, including some twenty new cases. Operations are performed daily from 9 a.m. until 11 a.m. The second variety of permanent hospital, which has been adopted by the Council of the Province of Gharbia, and is being built by their architect at a cost of L.E. 1,500 to L.E. 2,000, consists of a commodious out-patient clinic, but has no accommodation for in-patients. The expense of maintaining these hospitals is about half that of maintaining hospitals with in-patient accommodation and provides for one surgeon only (Tables I and II).

Travelling Ophthalmic Hospitals.—The travelling hospitals are an important feature of the system. Each hospital consists of a number of Indian tents, including one especially spacious for the performance of operations. Each camping ground is occupied for four to six months. In this way most of the larger towns in Egypt have been visited. Only poor people are received as patients and all treatment is gratuitous. It is due to the popularity of these hospitals that the need for ophthalmic relief after countless generations of suffering and disability is becoming felt by the people of Egypt, a need which was not realized until the establishment in 1904 of the first hospital under the sole surgical charge of the present Director of Ophthalmic Hospitals.

Three types of travelling hospitals are carried on. The most completely equipped type has two surgeons attached to it and is able to treat 200 to 300 patients a day ; the second type is similar but on a smaller scale, it has only one surgeon in charge and is capable of providing treatment for 100 to 150 patients per day; the third type differs from those previously described in having no accommodation for in-patients, but provides treatment for 100 to 150 out-patients a day. There are at the present time six of these travelling hospitals at work in various parts of Egypt.

Staff.—The administration and clinical direction of these hospitals are vested in the Director with the assistance of two British and one Egyptian Inspecting Surgeons. The subordinate staff consists at the present time of twenty-three Egyptian surgeons who, having completed the medical curriculum at the Government Medical School in Cairo, volunteer for ophthalmic training and service; the average man makes a good and careful operator for all lid affections; while a few of the senior men have attained to quite first-class operative ability in the performance of intraocular operations.

Post-Graduate Instruction.—A complete course of post-graduate lectures is delivered every year by the Director and the Inspecting Surgeons. Complete laboratory facilities for clinical pathology and bacteriology exist at Tanta, Assiût, Mansûra, Beni Suef, and Zagazig.

Clinical Work.—The clinical work carried on at the Egyptian Ophthalmic Hospitals differs from that of any other country in the large proportion of patients for whom an operation of one kind or another is required, which amounts to about 60 per cent. The conditions mainly responsible for this are trichiasis and entropion (in-growing eyelashes); they are the direct result of trachoma, a disease which attacks more than 90 per cent of the native population. Operations were performed on 6,942 sufferers from these complications during 1912, but were refused to an equal number for lack of available time.

A system of ophthalmic treatment, including facilities for the requisite operative measures and for the provision of spectacles for all who require this aid to vision was instituted for one of the Government Primary Schools, that of Tanta, in 1907. A remarkable improvement in the ophthalmic condition of the school has already been produced (*see* report on page 8). The extension of this boon to other schools should be effected as soon as surgeons who are sufficiently trained in ophthalmic surgery become available for the work.

A scheme has been instituted for the training of "First Aid" Assistants to help the District Medical Officers. Part of their training is carried out at the various ophthalmic hospitals where lectures and demonstrations are given and where they are taught to carry out a little simple treatment.

Finances.—While inadequate for the provision of sufficient ophthalmic relief for the needs of a suffering but inarticulate country population, the annual Government grant has risen from L.E. 3,352 in 1906 to L.E. 12,090 in 1913; to this must be added L.E. 2,564, the interest on the Cassel Fund, and L.E. 4,500, the amount granted by the various Provincial Councils. A total of L.E. 19,154 is therefore available each year for the relief of eye disease. The actual sum spent last year on hospital maintenance (not including Central Administration expenditure) was L.E. 7,116.293 milliemes. For this sum 31,643 new patients were treated; 341,211 attendances of out-patients were made; 20,385 daily diets were issued to 909 in-patients; and 21,315 operations were performed.

Ophthalmic Relief in Aswan Province.—It is probable that every province, except one, will, in the course of time, supply itself with at least one ophthalmic hospital. The exception is Aswan, where the long river frontage with its scanty strip of cultivation and population needs a different ophthalmic organization to other provinces. Though the village of Abu Simbel in the south and the town of Edfu in the north, separated by a distance of 200 miles, would no doubt send a number of their inhabitants to a central hospital in the capital town, it would be infinitely more convenient for the inhabitants of each district to be visited by a floating or dahabîa hospital. But there is no money from local sources available or likely to be available for such a scheme, although the Government is pledged to provide the maintenance expenses. The cost of a specially built dahabîa complete with all equipment would be about L.E. 2,500.

Blindness in Egypt.—The amount of blindness in Egypt is usually stated by non-professional observers to have largely decreased within the last twenty years; nevertheless, out of 43,668 patients examined during 1912, 6,939 persons were found to be blind in one or both eyes, that is nearly 16 per cent. It is probable that there has been a small diminution as the result of the enforcement of compulsory vaccination, but enough has been said to show that ophthalmic conditions are still appalling, and no relaxation must be allowed in the efforts to improve them.

Means of Fighting Eye Disease and Blindness.-The different methods in which ophthalmic relief may be given have been thoroughly studied and no time has been spared in the consideration of the various suggestions which have been made. Realizing the impossibility of effecting an ophthalmic revolution in any finite period it has been considered all important to put those means of relief which future generations will use and will profit by on a firm and lasting basis. The means which have been decided on are a permanent built hospital or its equivalent in the capital town of each province, provided locally and maintained by the Government, and a travelling tent-hospital with accommodation for a few inpatients provided and maintained by each Provincial Council. From each of these centres will develop various branches of work, including treatment of the pupils in schools and kuttabs, lectures on ophthalmic hygiene, distribution of pamphlets giving instructions for the prevention of infection, provision of first aid in eye diseases in the remoter villages, talks in simple language to collections of women of the necessity of cleanliness for their children and of the way it should be effected. Money, skilled labour, and time, will gradually work a vast improvement among a people who are intensely anxious to avail themselves of the small amount of ophthalmic relief which is at present available.

The two large mayeling inspirals with accommodation for in-patients known of the thread brind Rospitale were moved from Paridin and Zaykin to tiles and Bana it for the mount of the someoner. The period allowed between the hast day at the old examp when dimost work is finished and the first day at the new calmthe seeing patients this been reduced to fitteen these days in the new calmprovable in this period on account of the presents of repletiching equipment

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* Jours 11, 1913. There is now a shift average prior between 2.25 periods. This allows that the previously satisfies to the previous start for previously satisfies to the previous start for previous start.

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II.—WORK AND PROGRESS DURING 1912.

A .--- PERMANENT HOSPITALS (see Tables I and II).

The hospital at Tanta, which was the first one to be built in Egypt, now attracts a very moderate number of patients. A determined effort will be made during the month of March to reawaken the interest of the inhabitants in the preservation of their sight by starting a branch dispensary in one of the poorer parts of the town, from which, patients requiring operation will be transferred to the hospital.*

The Assiût hospital continues to treat a very large number of patients. It has been found necessary to keep a British Inspector at the hospital almost constantly since the beginning of October for various reasons.

The Mansûra hospital was opened on October 1, 1912. It proves to be a highly satisfactory building and reflects great credit on the architect, John Price Bey, the Chief Engineer of the Department of Public Health.

Beni Suef hospital was opened on December 31, 1912. It is the first ophthalmic hospital to be completed by the Ministry of Public Works. It has considerably less accommodation than the hospitals at either Assiût or Mansûra, but will be sufficient for the needs of the town of Beni Suef. This hospital was built by public subscription.

A sister hospital to that of Beni Suef will be opened very shortly at Zagazig; some delay has occurred on account of the proximity of a canal exacting detailed study of the foundations. The hospital is being built at the expense of the Provincial Council of Sharqîa.

The Sohag hospital has not yet been commenced; much delay has occurred for which the Department of Public Health is in no way responsible. Considerable irritation is being shown by the subscribers to the building fund.

All initial and maintenance expenses for the above-mentioned hospitals are assured.

Plans are just completed for building hospitals at Damanhur, Shebin el Kôm, Minia, and Fayum. In each case the cost of building and equipment is being defrayed locally, while the Government is pledged to pay the maintenance expenses.

The Provincial Council of Gharbîa is now building hospitals at Mahalla el Kubra and Kafr el Zayat, which will be administered by the Director of Ophthalmic Hospitals. The plans were made by the Provincial Council Engineer after a sketch supplied to him and he is responsible for the engineering and drainage of these hospitals. Great credit is due to H.E. Mouheb Pasha, the President of the Council, for the rapidity with which these hospitals have been built.

B.-TRAVELLING HOSPITALS.

The two large travelling hospitals with accommodation for in-patients known as the Cassel Fund Hospitals were moved from Fayûm and Zagazig to Gîza and Benha at the beginning of the summer. The period allowed between the last day at the old camp when clinical work is finished and the first day at the new camp for seeing patients has been reduced to fifteen days. No further reduction is possible in this period on account of the necessity of replenishing equipment

* June 21, 1913. There is now a daily average attendance of 250 patients. This shows that the previously noted diminution was purely temporary.

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Menufia	Shebîn el Kôm	1	Beni Suef	Beni Suef	2
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Qanuoia	Benha	2	Assiùt	Assiût	1
Sharqia	Zagazig	2	Girga	Sohag	1
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and mending tent-canvas. The localities already visited by the hospitals are as follows :--

A small travelling hospital with beds for in-patients was opened at Badari in December. It is financed by the Assiût Provincial Council and administered by the Ophthalmic Section of the Department of Public Health.

A similar hospital will be opened shortly in Dagahlia Province.

The Gharbîa Provincial Council also maintains two small travelling hospitals without beds for in-patients. Work has been carried on at Mahalla el Kubra, Zifta, Santa, and Sherbîn.

Such Provincial Councils as maintain ophthalmic hospitals, and it is to be hoped that their number will be largely increased in the future, have the entire financial responsibility for these hospitals. All payments are made and all accounts are kept by the Provincial Council officials. The President of the Council appoints all officials on the recommendation of the Director of Ophthalmic Hospitals, who merely directs the clinical work, sees that the hospital premises and stores are kept in order, and initials all invoices and communications between the Council and the hospital. This system has been found to work extremely satisfactorily and harmoniously.

The present staff of ophthalmic Inspecting Surgeons, consisting of Dr. Mohammed Tahir, Dr. E. V. Oulton, and Dr. R. Granville Waddy, will very shortly be unable to cope with the largely increased work, and further assistance will be required. The staff of surgeons, twenty-three in number, are all Egyptians; they continue to carry on highly satisfactory clinical work under the careful supervision of the Inspectors.

The post-graduate teaching of ophthalmic surgery in Egypt is claimed to be better for future practitioners in this country than that to be obtained in Europe. It therefore appears to be unnecessary for the Government to maintain young Egyptian surgeons in London for the purpose of learning ophthalmic surgery. III.-CLINICAL.

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The number of new cases treated has risen during the last year to 28,029, and the total attendances of out-patients to 341,211. Only such a number of patients are accepted for treatment as can be thoroughly and efficiently examined and as can receive the requisite treatment, including operation when indicated. Besides the patients accepted for treatment, a large number-12,025-were postponed on various occasions because there was no available time to treat them efficiently. Many of these returning to the hospital on days when the pressure was less severe received treatment.

It is usually impossible to accept all the trichiasis cases; 6,942 operations were performed on 13,176 patients who presented themselves suffering from this condition, the operations most frequently performed being a modified Snellen's operation and Van Millingen's grafting of mucous membrane.

It is noteworthy that nearly one-third of all the patients treated were under ten years of age.

243 extractions of senile cataract were performed. Glaucoma simplex is an extremely frequent condition in Egypt; 1,111 cases were seen, of which 282 were in a condition of absolute glaucoma. The operation most frequently performed being trephining of the corneo-sclera combined with iridectomy through the trephine hole. The frequency of corneal ulceration led to the performance of 978 iridectomies for leucoma adherens; some of these operations were performed for actually increased tension, but the majority were for the purpose of prophylaxis against this complication.

Among fundus lesions may be mentioned 159 cases of optic atrophy, 26 cases of optic neuritis, 2 cases of rupture of the choroid, 25 cases of detached retina, and 29 cases of retinitis pigmentosa (see Clinical Statistics).

Trachoma is generalized throughout Egypt, affecting more than 90 per cent of the population. The inhabitants of Abu Simbel and Feriq are victims to the disease to the same extent as those of Damietta, though nearly ten degrees of latitude intervene between them, and though the swamps and dampness of the northern town contrast most markedly with the dryness and heat of the southern village. Climatic conditions therefore do not appear to play any decisive part in the incidence of trachoma in Egypt.

The complications of trachoma more severely attack the inhabitants of thickly populated and overcrowded towns and villages than the inhabitants of sparsely populated districts. The neighbourhood of a dusty area, such as the ancient site of an uninhabited town, appears to be especially productive of a severe degree of trachoma.

None of the races which inhabit Egypt, viz. fellahin, Arabs, Berberines, Sudanese, Europeans, are immune from the disease, and all suffer equally when exposed to the same conditions of contagion, filth, and overcrowding.

Children are generally infected during the first two years of life. Until recently we had supposed that the infection of the infantile conjunctiva invariably occurred after birth, by the intermediary of fingers or handkerchiefs, from the diseased conjunctiva of mother or nurse. However, recent research seems to show that trachoma of the genital passages of both men and women occurs and that trachoma of the newly born may occur as the result of infection during the process of delivery.

Absence of strict cleanliness is almost universal among the lower classes and facilitates contagion. At no period of life can any one living in Egypt avoid shaking hands with people who have contagious trachoma, in the discharge from which their fingers are often steeped. The constant possibility of contagion is thus easily understood.

In households it is common after ablutions for the same towel to be used for the faces of the whole family. The conjunctival secretion of each one is wiped on it, and there is small chance that any one of the family will long retain a healthy conjunctiva.

Transmission of contagion by flies is probably not the most frequent of the various modes of infection. It cannot be definitely stated not to take place, but there is no scientific evidence of its occurrence, in spite of the efforts which have been made by Morax and by Meyerhof to obtain it.

An attack of acute conjunctivitis frequently precedes infection with trachoma. Hence, in former times it was thought that trachoma itself always began acutely. This, however, is rarely the case. The acute symptoms are usually caused by well known bacterial organisms, of which the most important are the diplo-bacillus of Morax-Axenfeld, the Koch-Weeks bacillus, and the gonococcus.

An acute conjunctivitis is highly contagious on account of the purulent, discharge which is spread about by the fingers on clothes and utensils. As the original sufferer in Egypt so frequently has trachoma, this disease is transmitted along with the acute conjunctivitis.

The principles of our treatment of trachoma are based on a classification of the stages of the disease which has been in use at the Egyptian Ophthalmic Hospitals since 1905. It is a development of Raehlmann's classification. It is herewith shortly outlined :—

Trachoma, Stage I.—Seen typically soon after infection has taken place as slight roughnesses, forming grayish islands which are semi-transparent and almost non-vascular.

Trachoma, Stage II.—Is divided up into a, b, c.

Trachoma, Stage IIa.—Numerous grayish follicles protrude above the surface of the conjunctiva which easily rupture on pressure.

Trachoma, Stage IIb.—Here there is a formation of red raspberry-like papillæ or elevations which mask more or less the typical gelatinous follicles. Two sub-varieties may be distinguished, Trachoma IIb', which is unmixed trachoma, and Trachoma IIb'' which is trachoma complicated by spring catarrh.

Trachoma, Stage IIc.-Is trachoma complicated by gonococcal conjunctivitis.

Trachoma, Stage III.-In which cicatrization is beginning.

Trachoma, Stage IV .- In which cicatrization is complete.

There are many cases which cannot be stated to belong to a definite stage; for instance, a case may be between Trachoma II and Trachoma III, or between Trachoma III and Trachoma IV. But this division of the disease into stages has been found to be extremely useful for the purpose of teaching and of treatment.

The treatment may be indicated as follows :--

- Trachoma I.—Application to the lids, by a tampon of cotton wool on the end of a glass rod, of silver nitrate 2 per cent; later, astringent drops may be used.
- Trachoma IIa.—Mechanical rupture of the follicles by Graddy's forceps and a sharp spoon followed by the application of perchloride of mercury 1 per cent on a tampon of cotton wool.
- Trachoma IIb.—Heisrath's combined excision of tarsus and conjunctiva. Trachoma IIb' may also be treated like Trachona IIa.

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Trachoma IIc.-Silver nitrate 2 per cent is applied to the conjunctiva.

Trachoma III.-The application of copper sulphate stick.

in home-bolds it is common after ablations for the same towed to be used for interaction of each conclusion faces of the whole family. [SIOOHOS.]

Ophthalmic Inspection and Treatment at Primary and Infant Schools (kuttabs).

A.-SCHOOL TREATMENT.

My report on the ophthalmic treatment of the pupils of Tanta Primary School was forwarded by the Director-General of the Department Public Health to the Minister of Education and is here reproduced :—

"Le traitement ophtalmique à l'Ecole primaire de Tantah a été commencé par le personnel ophtalmique de l'Administration de l'Hygiène Publique en 1907.

"L'évolution des méthodes les plus convenables de traitement et la coopération réelle entre le personnel de l'Ecole et le médecin oculiste local n'a pas été obtenu sans peine. En effet, ça n'a été que pendant le cours de la dernière année que les accommodements peuvent être considérés comme ayant été tout à fait satisfaisants, et même actuellement une amélioration considérable est possible.

"Néanmoins, un point a été atteint, quand on pense que les méthodes de traitement adoptées peuvent être considérées comme suffisamment efficaces et les dispositions administratives prises assez satisfaisantes pour permettre d'en recommander l'adoption dans d'autres écoles.

"Dans le cas de toute nouvelle école soumise au traitement, il sera nécessaire que le Ministère de l'Instruction Publique pourvoit à des aménagements et à un matériel convenable, tandis que l'Administration de l'Hygiène Publique fournira de son côté le personnel habile et les médicaments nécessaires.

"Trachome. — Le pourcentage des élèves atteints de trachome a été de 95 pour cent; ce chiffre comprend tous les cas dans lesquels il y a une évidence définie de la présence ancienne de la maladie, même si une guérison a été obtenue. Tandis qu'en 1907 la proportion des élèves qui se trouvaient définitivement dans un état contagieux de trachome était de 76 pour cent au moins, à la fin de l'année scolaire 1912 0.27 pour cent seulement restaient dans cet état contagieux à la suite du traitement qu'ils avaient subi.

"Ce résultat est extrêmement intéressant et témoigne de son succès. Comme un des résultats du traitement, il a été constaté, au commencement de cette année scolaire, que 65 pour cent des élèves de l'école atteints de la maladie se trouvaient parmi les nouveaux élèves admis au cours de l'année scolaire.

"Le nombre des élèves se trouvant actuellement sous traitement journalier, pendant l'année, était de 151, dont trente-quatre subirent une petite opération pour trachome. L'opération consistait en un léger raclage de la surface intérieure des paupières avec instrument, à l'effet d'enlever les tissus malades surabondants. 92 pour cent des élèves traités montrèrent une amélioration marquée, qui dans bien des cas demeurera permanente.

"Acuité visuelle. — Le nombre d'élèves jouissant d'une bonne vision a été de 18.5 pour cent, ceux avec une vision passable 35 pour cent, et ceux avec une mauvaise vision de 46.5 pour cent. La cause de l'imperfection dans la vision était ordinairement due à l'opacité de la cornée, résultat du trachome ou d'une conjonctivite, aiguë, cette dernière y contribuant dans environ 47 pour cent des cas. Dans les cas restants, la cause de l'imperfection de la vision était partagée à peu près par moitié entre l'hypermétropie et la myopie.

"Jusqu'à présent on n'a pas obtenu de preuves que la myopie est causée ou augmentée par les conditions de l'Ecole ou par l'opacité de la cornée. Ceci est justifié du fait que les classes supérieures de l'Ecole comptent plus d'élèves possédant une vision normale que les classes inférieures ; ainsi, des élèves de la quatrième année 30 pour cent, de la troisième année 36 pour cent, de la deuxième année 18 pour cent, et ceux de la première année 15 pour cent, ont une vision normale, des lunettes simples (jusqu'à six dioptries d'ametropie) étant permises pendant l'examen.

"Les lunettes sont ordonnées toutes les fois qu'il y a un espoir raisonnable qu'elles seront de quelque utilité pour les élèves. Pendant le cours de la dernière année cinquante-quatre élèves ont été jugés devoir porter des lunettes, et une bonne proportion, quarante et un, en ont achetées. A l'époque de l'inspection, cependant, quatorze élèves seulement portaient leurs lunettes.

"Ceci est très déconcertant, car le travail qu'entraîne l'examen nécessaire est considérable. Néanmoins, il est à rappeler que quelques élèves perdent leurs lunettes, et que quelques-uns les cassent et qu'ils sont incapables ou peu désireux de les remplacer. Je pense, toutefois, que des inspections plus fréquentes de la part du personnel ophtalmique que celles effectuées jusqu'à présent, des élèves portant des lunettes dans les salles d'études, produiraient une amélioration à cet état de choses.

"Complications du Trachome. — Quatre élèves ont été trouvés souffrant de la croissance des cils dans l'intérieur des paupières. Un avis urgent a été adressé à la famille ou au tuteur de chaque élève, l'informant de la nécessité de procéder à une opération à l'effet de faire reprendre aux cils leur position normale, faute de quoi l'élève se trouverait exposé à un danger continuel de perdre la vue. Des opérations de cette nature peuvent être pratiquées gratuitement à l'Hôpital Ophtalmique le plus proche."

B.--KUTTABS' INSPECTION.

A complete ophthalmic inspection of the Infant Schools or *kuttabs* which received subventions from the Ministry of Education was made as usual in 1912.

Tanta.—The total number of pupils examined on the days of inspection, March, 21, 22, 23, in the thirty State-aided kuttabs, was 2,270. The number of pupils who showed evidence of trachoma was 2,073, or 91 per cent, of whom 38 per cent were in a definitely infective condition. The number of pupils who were blind in one eye was sixty-five; the number of those blind in both eyes was twentyone.

While the inspection was carried out for the purpose of inquiring into the ophthalmic condition of the pupils, *kuttabs* which were dirty or overcrowded were noted, as their effect on the eyes of the pupils is injurious. Seven were found to be dirty, one was overcrowded, six were both overcrowded and dirty.

Assiût.—The number of pupils examined in the fifteen State-aided kuttabs at Assiût town was 969. The days of inspection were March 16, 17, 18, 19, 20, 21, 23, 24, 25, 26, 30, 31, and April 1, 2, 3, and 4.

The number of pupils who showed evidence of trachoma was 947, or 97 per cent, of whom 56 per cent were in a definitely infective condition. The number of pupils who were blind in one eye was thirty-four, none were blind in both eyes.

Three of the *kuttabs* were dirty, two were overcrowded, and three were both dirty and overcrowded.

It should be recognized that the amount of control over these *kuttabs* possessed by the Ministry of Education is but small, as they are in many cases semi-religious foundations and are privately owned and managed.

V.—BLINDNESS IN EGYPT.

During the examination of 43,668 patients in 1912, 8,603 eyes were found to be blind. The causes were as follows :---

Conjunctivitis resulting in :							
(a) Total corneal opacity	 	 -		 			2,1
(b) Shrunken globe	 	 		 			1,93
(c) Secondary glaucoma	 	 		 		1.5.5	1,6
(d) Other conditions	 	 		 			6
Fundus. Optic atrophy	 	 		 			1
Retinitis pigmentosa	 	 		 			:
Various	 	 		 			2
Glaucoma absolutum :—							
Monocular	 	 		 			5
Binocular	 	 		 			5
Cataract	 	 		 			4
Injury	 	 		 			
Operation	 	 		 			-
Infectious disease	 	 		 		de.	
Iritis endogenous		 		 			18
Various		114	CALL NO.		100	COLUMN STATE	

All patients were accounted blind who could not count fingers at a distance of one metre.

As was to be expected in a country in which trachoma and various forms of acute conjunctivitis are rife, 75 per cent of the blindness resulted from one of these conditions. Trachoma alone is an infrequent cause of blindness; it is impossible, however, to show this from out-patients statistics since the patients are rarely able to give an accurate history.

The large number of cases blind from secondary glaucoma, 1,630, points to the advisability of performing a prophylactic iridectomy as soon as possible after adhesion of the iris to the cornea has taken place.

Primary glaucoma accounted for more than 12 per cent of the total cases of blindness.

The efficacy of Public Health regulations for vaccination is shown by only four cases of blindness, the result of small pox being seen during 1912.

An enumeration of the number of patients who were found to be blind and a comparison with the total number of patients examined at the hospitals is highly interesting :—

TOTAL NUMBER	(a) Mos	OCULAR.	(b) BIN	CULAR.	TOTAL (a) AND (b).
OF PATIENTS EXAMINED.	Number of Cases.	Per Cent.	Number of Cases.	Per Cent.	Number of Cases.	Per Cent.
tone butters presented	Friverlow	naodastan	at thesime	da boxingo	ould be ret	de pl
43,668	4,115	9.42	2,824	6.46	6,939	15.88

Blindness.

It is seen that nearly 16 per cent of the cases examined were blind in one or both eyes, while more than six per cent were totally blind.

A comparison of the number of cases of blindness found during the last seven years is here given :---

	TOTAL NUMBER	ONE H	eve.	Вотн	Eves.	ONE EYE AND	BOTH EYES
YRAR.	OF PATIENTS EXAMINED	Number.	Per Cent.	Number.	Per Cent.	Number.	Per Cent.
treatme	mple dispensery		co airli s		ittle or	to si bui	of any
1906	40,103	1,297	3.2	663	1.6	1,960	4.9
1907	24,416	1.450	5.9	697	2.8	2,147	8.7
1908	19,614	1,189	6•0	852	4.3	2,041	10.4
1909	22,373	2,116	9.4	1,385	6.1	3,501	15.6
1910	25,506	2,438	9.5	2,010	7.8	4,448	17.4
1911	31,274	3,196	10.2	2,811	8•9	6,007	19.2
1912	43,668	4,115	9•4	2,824	6:4	6,939	15*8
TOTAL	206,954	15,801	8.7	11,242	6.5	27,043	15.2

Blindness.

The increasing percentage of blindness from 1906 to 1911 is significant of the greater care taken by the surgeons to make full clinical records of all cases of blindness seen among the hospital out-patients.

VI.—OPHTHALMIC POLICY IN EGYPT.

It is now a settled policy in Egypt to extend ophthalmic relief by means of a permanent hospital in the capital town of each province built and equipped by local effort and maintained by the Department of Public Health from funds granted by the Ministry of Finance. This is to be supplemented in some provinces by a travelling hospital with accommodation for a few in-patients touring round the smaller towns equipped and maintained by the Provincial Council and administered by the Director of Ophthalmic Hospitals, on behalf of the President of the Provincial Council. This system has up to the present been carried on to the complete satisfaction of the Provincial Councils concerned and of the Department.

Ten different provinces will soon be supplied each with a permanent hospital (one province, Gharbîa, even having three such hospitals). The Provincial Council of Qena began in 1911 to put aside L.E. 400 a year towards a hospital, but a long period must elapse before a sufficient sum has been amassed. The Provincial Councils of Gîza and Qaliubîa have hypothecated for other purposes the greater part of their budgetary credits. Aswân has no money available nor is likely to have any money in the future. There is little doubt that the Provinces of Qena and Aswân would be better served by floating hospitals than by built hospitals. The cost of building and equipping a specially designed ophthalmic *dahabîa* would be about L.E. 2,500. The maintenance expenses would be about the same as those of a permanent hospital, L.E. 1,500 a year.

While the policy enunciated above is feasible and will probably be carried out during the next twenty years, it should be borne in mind that there is sufficient clinical material in every small town in Egypt to occupy the whole time of an ophthalmic surgeon.

Cheaper methods of ophthalmic relief than by permanent or travelling hospitals have been considered and have been rejected.

The eye diseases met with in Egypt are such that more than half the patients seen require operation. To carry out operations satisfactorily conditions of asepsis must be obtained by the provision of a satisfactory operating room and of trained assistants (*tamurgis*).

For certain classes of operation it is necessary to keep the patient under observation and in a recumbent attitude; for this purpose beds for in-patients are required. The application of drugs to the eyes without operative procedure of any kind is of little or no value in this country. Simple dispensary treatment is therefore of no avail, and it is believed that the types of hospitals described above are the cheapest form of ophthalmic relief that can be recommended.

Ophthalmic treatment should be extended to the primary school of every town in which there is a Government ophthalmic hospital. This advantage can be given to the schools of Assiût, Mansûra, Beni Suef, Zagazig, Sohag, Shebîn el Kôm, Damanhûr, and Minia, from the beginning of 1914.

The work can be carried out by the junior surgeon of each hospital without extra pay; the value of the drugs used is negligible and can be defrayed with the ordinary expenses of the ophthalmic hospital. The work should be put in the charge of a new Ophthalmic Inspecting Surgeon. Proposals have already been made on this subject and have been approved by the Ministry of Education.

he granter care taken by the surgeons to make full clinical records of all f blindness som among the hospital out-patients.

AL-OPHTHALMIC POLICY IN EGTPT.

the fit is now a settled policy in Engypt to extrud ophthalitate relief by means of a permanent hospital in the capital town of each province built and equipped by bend effort and maintained by the Department of Polylic Health from funds granted by the Ministry of France. This is to be supplemented in some privatores by a traveling hospital with accommodation for the Provincial Council and administered py the Director of Ophthalitate Hospitals on behalf of the Provincial to traveling towns equipped and maintained by the Provincial Council and administered by the Director of Ophthalitate (Hospitals) on behalf of the Provincial of the Provincial Council. This system has up to the present beta carried on to the complete estistation of the Provincial Councils of the Provincial council and administered satisfaction of the Provincial Councils of the Provincial to the Pro-

Ten different provinces will soon to supplied sub with a permanent hospital toins province Gharbia even having three such hospitalist. The Provincial Council of Qena began in 1911 to per naide L.E. 200 a visio tewards a broquitil chur a long period ranat shape before a sufficient sum has been agaased virthe Provincial Councils of Giza and Qalubha have hypotherated for other purpose the greater part of their landgetary credits. Aswin has no money available nor is likely to have any model be better secred by floating hospitals the Provinces of Qena and Aswin would be better secred by floating hospitals the Provinces hospitals. The cost of building and equipping a specially designed ophibalmor the same as those of a permission. It is mantenence to be be a sould be about the same as those of a permission his rate, by floating hospitals then by built dranks would be about L.E. 2,500. The maintenence to personal would be about the same as those of a permission his rate, L.E. 1,500 avec.

berried by policy opposited above is transition and will probably be corried to be the second to the second be berried to be next there is about the berrie in about the berrie in a bound be berrie in a bound the berrie in a bound be berrie in a bound the berrie in a bound the berrie in a bound be berrie in a bound the berrie in a bound be berrie in a bound the berrie in a

VII.-TABLES AND STATISTICS.



TABLE 1Amount and Varieties of Work Dealt With at Various Forms of Hospitals.	WITH OR WITHOUT BEDS. THE YEAR SOT LESS THAN		With beds. 12	Without beds. 12	Large camps with beds.	Small camps with beds. 10	Small camps without 10 beds.	TAN II - Thankis Provision
vork Dealt With at Various Form	VARIETIES OF OPHTHALMIC DISEASE NUMBER OF REDS. DEALT WITH.	ino'i luionitor	All. H	Strictly limited.	All. 12	All. 6	Strictly limited.	na for the Variana Forms of Ho
s or mospitais.	NUMBER OF NEW OUT-PATIENTS DEALT WITH PER DAY.	T 230 Louinep Con	20 02 02	10 10 1, Martineral (200	()51	10	10 . 10 http://	bitutii
	NUMBER NUMBER OF OLD PATIENTS DEALT WITH PER DAY.	inter and	200 - 300	100 - 150	200 - 300	100 - 150;	100 - 150	

TABLE I.-Amount and Varieties of Work Dealt with at Various Forms of Hospitals.

THE AND THE PARTY OF

- 15 -

TABLE II.-Financial Provisions for the Various Forms of Hospitals.

				- 16 -				
1MI	Cost.	LaE.	1,500	750	1,500	900	200	
MAINTBNANCE.	Provided by	111	Government.	Provincial Council.	Cassel Fund.	Provincial Council.	Provincial Council.	
•	Cost.	LaE.	1,000	609	850	720	500	Turiquot
EQUIPMENT.	Provided by		Government, gift, subscription, or Provincial Council.	Provincial Council.	Cassel Fund.	Provincial Council.	Provincial Council.	the annual anning is drive diad drow to and
it three	Cost.	I.E.	4,000	1,500 to 2,000	1	1	arras	ally your
BUILDING.	Provided by	10.	Gift, subscription, or Provincial Council.	Provincial Council.	• 1	1		
interest and the second	WITH OR WITHOUT BEDS.	shout drive aquints then	With beds.	Without beds.	Large camps with beds.	Small camps with beds.	Small camps without beds.	W has innoutly I what
	NATURE OF HOSPITAL.		Permanent			Travelling	-ANTICON IN THOMAS	

- 16 -

	PROVIDED BY	MAINTAINED BY	OPENE
		artalian, bring hat	10
PERMANENT :	· · · · · · · · · · · · · · · · · · ·	58月後5年	
	市町四十十十日	and the track galactus	1010
Tanta	Government grant.	Government grant.	1908
Assiût	Public subscription and Government grant.	Government grant.	1910
Mansúra	Gift by Badrawi Pasha.	Government grant.	191:
Beni Suef	Public subscription.	Government grant.	1915
Zagazig	Provincial Council.	Government grant.	191:
Mahalla el Kubra	Provincial Council.	Provincial Council.	1912
Kafr el Zayat	Provincial Council.	Provincial Council.	191:
Sohag	Public subscription.	Government grant.	1913

TABLE III .- Source of Provision and Maintenance of Hospitals.

TRAVELLING :--

No. 1 Camp	 Sir Ernest Cassel.	Sir Ernest Cassel.	1904
No. 2 Camp	 Sir Ernest Cassel.	Sir Ernest Cassel.	1905
Gharbia No. 1	 Provincial Council.	Provincial Council,	1911
Gharbîa No. 2	 Provincial Council.	Provincial Council.	1913
Assint No. 1	 Provincial Council.	Provincial Council.	1912
Daqahlia No. 1	 Provincial Council.	Provincial Council.	1913
		Le Could and The second and	(a) 1

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TABLE

141	1904.	1905.	1906.	1907.	1908.	1909.	1910.	1911.	1912
HOSPITALS IN EXISTENCE :									
1Travelling	1	61	01	51	91	21	c1		7
2Permanent	1	Ļ	1	1	E =	1 1	1	01	+
New patients treated	2,954	4,210	7,327	7,446	161.794	- 12,092	14,342	20,488	28,029
Total attendance of out-patients	15,039	50,680	94.204	146,830	132,278	177,761	190,247	236,411	341,211
Operations performed	1,282	2.480	5,846	6,794	6,426	9,930	11,486	14,322	21,315
In-patients	49	140	202	181	208	390	413	. 678 -	606
4 1	10 10 10 10 10 10 10 10 10 10 10 10 10 1	N N N		P P					in .
Derans									
				1 400 1					
					19,614	22,373	25,514	31,274	43,668
Patients regularly treated					102.7	12,092	14,342	20,488	28,029
Incurable cases					4,550	2,302	1,776	2,620	7,200
Blind in one eye					1,189	2,116	2,438	3,196	4,115
Blind in both eyes					852	1,385	3,010	2,811	2,824
Trichiasis cases examined					8,159	10,060	7,507	7,871	13,176
Trichiasis cases operated on and cured					2,262	3,128	2,022	3,933	6,942
				116					
NEW PATIENTS TREATED PER AGE :									
Under I year					247	516	157	192	1,495
From 1 to 5 years				···· ··· ···	585	1,645	1,497	1,903	3,317
6 to 10					902	1,442	4,469	2,101	3,210
" 11 to 15 "	in unSure in				849	1,294	1,475	2,051	3,056
16 to 20					829	1,156	1,499	2,067	2,588
" 21 to 40 "					2,581	3,775	£ 4,845	6,116	8,167
41 and over				10 	1,798	2,206	3,100	5,589	6,196

6

- 18 -

TABLE V.-List of Diseases.

(Numbers Indicate Patients Seen or Treated.)

Ametropia :				
Hypermetropia	 	 		144
Myopia	 			317
Astigmatism	 	 (dept)	stellow	189
Presbyopia	 	 		14

Conjunctiva :---

•

Conjunctivitis simple	838
Conjunctivitis Muco-purulent or Pu-	
rulent	2,360
Conjunctivitis Gonorrheal (microsco-	Pano
pical diagnosis)	01011/34
Other varieties	17
Trachoma I	1,182
Trachoma II	4,602
Trachoma III	15,259
Trachoma IV	2,571
Spring Catarrh	1
Post-trachomatous Degeneration	3,622
Phlyctenule	771
Pterygium	527
Pinguecula	38
Xerosis	.98
Symblepharon	47
Dermoid	8
Other conditions :	
Argyrosis	15
Colloid Degeneration	7
Hypertrophied Caruncle	16
Injuries (foreign bodies, burn, etc.)	8

Eyelids :---

Pediculus Ciliar	is					61
Trichiasis and	Ent	nomio				
Distichiesis	isme	ropio			2.2.5	7,901
Distichiasis						41
Ectropion						153
Lagophthalmos						831
Blepharitis						2,348
Hordeolum						127
Want						
Wart						23
Meibomian Cys	t					121
Chalazion						29
Eczema						18
Rodent Ulcer						4
Dermoid						đ
			***	***	***	
Ptosis	***					28
						2
Herpes						3
Chancre						-
Epithelioma (Re						
Other turner	ouer	IL UI	cer)	1.4.8	***	
Other tumours						3

Lacrymal Apparatus :---

Lacrimal Fistula		 	23
Stenosis of the Duct		 	5
Dacryocystitis, acute		 •••	6
Dacryocystitis, chronic	***	 	186

Cornea :	-: and I
D.Tumour Content	
	CALLER 1
Ulceration, simple	1,630
	125
Ulceration, perforation	297
Ulceration, special forms	140
Pannus	12,198
Keratitis, interstitial	28
Keratitis, trachomatous	14
Nebula or Leucoma	15,874
Adherent Leucoma	3,405
Totally opaque Cornea	1,844
Staphyloma	778
Xerosis of Cornea	132
Abscess of Cornea	12
Conical Cornea	233
Injuries (burn, foreign bodies, etc.)	41
Pueding and a pueding and	ALLE
Later.	
Iris :—	
Antonion Port 11	Musch
Anterior Synechia	60
Posterior Synechia	180
Inflammation	216
Iris Bombé	9
Irido-dialysis	14
Congenital Coloboma	6
Aniridia	1
Sclerotic :	
selectione	
Ciliary Staphyloma	219
Pariselasitis	215
Inimian	2
injuries	2
Choroid :	
Production of the second	
Coloboma	2
Rupture	$\frac{2}{7}$
Disseminated Choroiditis	7
Choroido-Retinitis	36
Atrophy of Choroid	13
Tumours	2
Albinismus*	1
Dating .	
Retina :	

Retinitis, Albun	aint	arie a	and	Diab	etic	8
Retinitis, Syphi	litic					2
Retinitis, Pigme	ento)sa				29
Detachment of	Ret	ina				25
Embolism and	Thr	omb	osis	of R	eti-	
nal Vessels						
Glioma						
Other conditions						4

Optic Nerve :--

Neuritis		 	 	 26
Atrophy			 	 159
Other cond	itions	 	 	 1

LIST OF DISEASES (continued).

Lens :	Glaucoma (continued):-
Cataract, senile 1,140 Cataract, soft 80 Cataract, traumatic 24 Cataract, lamellar 12 Cataract, anterior polar 221	Primary, chronic 829 Secondary 1,947 Absolute Glaucoma 282
Cataract, posterior polar 9 Cataract, dislocated, traumatic 52 Cataract, dislocated, operative 14	Globe :
Cataract, dislocated, operative 14 Cataract, dislocated, congenital 1 Aphakia 108	Shrunken Globe 1,789 Buphthalmos 32
Vitreous :	Exophthalmic Goitre1Panophthalmitis47Microphthalmos14
Opacities 43 Foreign bodies 1 Synchysis Scintillans 1	Orbit :—
Muscles :	Tumours 13 Cellulitis 4
Strabismus, alternating 60 Strabismus, convergent 674	Periostitis <th< td=""></th<>
Strabismus, divergent 786 Nystagmus 411	Cyst, ethmoidal
Paralyses 4	Blind :
Glaucoma : Primary, acute	In one eve 4.115
Primary, sub-acute 10	In both eyes *

* Patients are accounted blind who cannot count fingers at one metre.

Chamilta Hannia Atrophy of Chamile Toursers Milminus - 20 -

TABLE V.-List of Operations.

Eyelids :					
For Trichiasis and	I En	tropi	on :-	-	
Snellen's					5,036
Anagnostakis'					70
Snellen-Anagnost					331
Canthoplasty					91
Grafting mucous	mem	bran	ie		1,152
Electrolysis					280
Excision of lash					ada a
Other operations					70
For Ectropion :					
Plastic					6
MacCallan's					6
Kenneth Scott's					
Kuhnt's					5
Other operations					6
For Symblepharon					16
For Hordeolum and	l Cha	lazio	n		271
Cyst removed					15
Wart excised					8

Conjunctiva :--

For Trachoma					
Expression					 642
Scraping				1.1.1	 6,224
Combined ex	cisio	n of	Heis	srath	 80
Post-trachom					4,333
Other operation					13]
Pterygium					 148

Iris :--

Iridectomy for adherent leucoma	978
Iridectomy, Visual	75
Iridectomy for Glaucoma	60
Iridectomy, preliminary, for Cataract	5
Division of Synechia	1

Lacrimal Sac :--

Excision		 	 	 18
Various	•••	 	 	 45

Lens :--

For Senile Cataract :	
Extraction with Iridectomy	234
Extraction, after previous Iridec-	
tomy	9
For membrane after extraction :	
Discission	169
For Soft Cataract :	
Extraction	710-
Discission	19
Curette Evacuation	57
For membrane after extraction :	
Discission	12
Paracentesis	15
Capsulotomy	2
Capsule extraction	3

Globe :--

Trephining of	Cor	neo-S	clera	an	d	
Iridectomy						152
Excision						240
Evisceration						52

Orbit :--

Exenteration		 	2
For tumour		 	5
For Dermoid		 	4
For Cellulitis			2
For Cyst, frontal			
For Cyst, ethmoidal			
Cornea :			
Foreign body remove	d	 	39
Saemisch's Section			24
Tenotomy and advances	ment	 	2
Other major operations			74

(c) Arranting 6.0 in an and for the out of the set of a star over a star over a the star over a star ove star over a star

TABLE VI .- Tanta Government School.

STATISTICS, 1911-1912.

	Number of pupils inspected in November		
(b)	Number of pupils discharged since November		18
(c)	Number of pupils inspected in November now attending (a-b)		366
(d)	Number of pupils entered school since November		10
(e)	Number of pupils (total) now attending $(c+d)$		376
	Percentage infected with trachoma	. 95.3	ileal lo noisiantil

(1) Condition of Conjunctivitis.

Arten Par				TO COM	REVIOUS MENCEMENT IENT AT SCHOOL 1907.		1911, Treatment.	1912, Apter Treatment:			
				Number.	Per Cent.	Number.	Per Cent.	Number:	Per Cent.		
					-: séal0	2			Wart exceed		
Health		1.1	-	0 21 20	4.30	17	4.42	17	4.64		
Conjunctivi	tis			- dana	tradero	-	-	-	-t a <u>cit</u> oaujaa		
Trachoma	I			78	16.00	4	1.04	-	For Trachonia Expression		
**	П			211	43.50	43	11.19	1	0.27		
" I	П			165	34.00	272	70.83	227	62.62		
" I	V			10	2.00	30	7.81	121	33.06		

(2) Results of Treatment.

Applied for treatment								151
Underwent Untreated				···			10 million	151 215
Guardians advised to all	ow perfo	rmance of	minor o	peration	at Ophtl	nalmie Ho	spital	34
Guardians consented to	allow per	rformance	of mino	or operati	on at Op	hthalmic	Ĥospital	34

Condition Improved.

Pupils treated : 140, or 92.71 per cent of those treated. Pupils untreated : 40, or 18.60 per cent of those untreated.

(3) Vision in its Relation to the Stages of Trachoma.

A D R MAL ALL ALL AND A ALL ALL ALL ALL ALL ALL ALL ALL ALL	TOTAL.
A.—Pupils with normal vision, <i>i.e.</i> 6/6 in each eye, correction of ametropia up to + or —6 D allowed	
B.—Pupils with fair vision, <i>i.e.</i> $6/9$ or $6/12$ in each eye, correction up to $+$ or -6 D allowed	
C.—Pupils with bad vision, 6/18 or inferior degree in one eye or both eyes	
(a) Attaining 6/6, 6/9, or 6/12 in each eye after correction of ametropia greater	
(a) Attaining 0.6, 0.7, or 0.12 in each eye after correction of ametropia greater than \pm 6 D	3
(b) Attaining $6/6$ in one and less than $6/12$ in the other after correction of ametropia	
not greater than ± 3 D	
(c) Attaining $6/6$ in one and less than $6/12$ in the other after correction of any amount	
of ametropia, i.e. greater than 3 D	
(d) Other inferior degree of vision	160

TABLE VI .- Tanta Government School (continued).

(a) Fields in Holdshies to School Fears.

(4) Ordering of Spectacles.

Number of pupils ordered spectacles satisfactorily*			 76
Number of pupils ordered spectacles satisfactorily this year		 	 54
Number of pupils purchased spectacles ordered this year	••••	 4,9.4	 41
Number of pupils wearing spectacies ordered on date of inspection		 	 1.4
(5) Medical Commission.			

Pupils who could	pass visual standard exacte	d, unaided			 	 121
Pupils who could	pass visual standard exacte	d, with spectacles			 	 67
Pupils who could	not pass visual standard		1000	Sec.	 	 178

(6) Trachoma in its Relation to School Years. October 1911.

					and the second se
		TRA	снома.	10-	Conjunctivitis.
	HEALTHY.	i ii	iii	iv	CONJUNCTIVITIS.
YEAR I: Class a , b , c , d Total	$\frac{-2}{3}$ 	- 1 0 $ 2$ 2	20 13		(2-0) (Mass C.– Ita untropps greater L.– Vision
YEAR II :	ALMER.	Verse		1	10.97
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$-\frac{2}{-2}$		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		1
Total	4		9 71	7	
YEAR III :	3 1 		$ \begin{array}{c} 31 \\ 29 \\ 1 \\ - \end{array} $	2 3 	11Violeta 24
Total	4	1	3 91	5	
YEAR IV :-	1				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$-\frac{3}{1}$		2 18 19 19 -	1 7 9	111.—Vision
Total	4	1	2 56	17	

(7) Percentage of Trachoma in School Years Previous to Commencement of Treatment. October 1911.

				Harran		TRACH	OMA.	
				HEALTHY	i	ii	ili	iv
YEAR	1	 	 	5.49	2.19	31.86	50.34	1.09
	2	 	 	4.39	-	9.89	78.02	7.69
**	3	 	 	3.84	0.96	2.88	87.50	4.80
	4	 	 	5.00	1.25	2.50	70.00	21.25

Total number during last four years and now attending school: twenty-two pupils were ordered glasses satisfactorily in last year refraction; twelve of these purchased the glasses ordered, only three of them were wearing them on the date of inspection.

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TABLE VI.-Tanta Government School (continued).

(8) Vision in Relation to School Years.

Class A.-Normal vision in each eye 6/6 correction of ametropia up to ± 6 D allowed.

YEAR.	NUMBER
I II III IV	$ \begin{array}{r} 10 \\ 13 \\ 25 \\ 21 \end{array} $

Class B.-Fair vision 6/9 or 6/12 in each eye. Correction of ametropia up ± 6 D allowed.

YEAR.	NUMBER.
I II III IV	$23 \\ 40 \\ 34 \\ 30$

Class C.—Bad vision 6/18 or inferior degree in one or both eyes, i.e. after correction of ametropia greater than ± 6 D.

I.—Vision = 6/6, 6/9, or 6/12 in each.

YEAR.	NUMBER.
I II III IV	3

II.—Vision = 6/6 in one and less than 6/12 in the other after correction or not more than ± 3 D of ametropia.

YEAR.	NUMBER.
I	1 2
III IV	-

III.—Vision = 6/6 in one eye and less than 6/12 in the other with correction greater than 3 D.

YEAR.	NUMBER.
I II III IV	_1

IV .- Other inferior degrees of vision.

YEAR.	NUMBER.
I II III IV	$54 \\ 42 \\ 40 \\ 24$

and and private solution later *

TABLE VI.-Tanta Government School (continued).

(9) Causes of Subnormal Vision.

I.—Where more than one of the following causes is present in the same or in both eyes only one is given, order of importance 1, 3, 2.

	TOTAL.	PER CENT OF THOSE WITH SUBNORMAL VISION.	PER CENT OF TOTAL PUPILS EXAMINED.
1Corneal opacity or Anophalmia	178	59+93	48.63
2.—Ametropia :—		CONTRACTOR OF THE	
(a) Hypermet. (including hypermetropic astigmatism)	48	16-16	13.11
(b) Myopia (including myopic and mixed astigmatism)	51	0.33	13.93
3 Other cases :			
(a) Iris, eiliary body and vitreous disease of	1	0.33	0.27
(b) Lens opacity of	1	0.33	0.27
(e) Fundus, disease of	2	0.66	0.54
(d) Central nervous system disease of	-		-
4.—Congenital	1	0.33	0.27

(11) One cornea	clear, the other	snowing	opacity	 	 	 	04
1222	Onanity of	both corneae	~					300
1111	DUDACILY OF	DOTE CORDERE						108

(10) Blindness.

For this purpose pupils are considered to be blind who cannot count fingers at one metre.

Number blind in one eye			 	 	 6
Per cent examined who ar	e blind in one	eve			

Individual Causes of Blindness.

TICKET NUMBER.	CAUSE.
778	R. Adherent leuc.
750	R. Optic atrophy.
760	L. Leucoma.
785	L. Persistent pupillary membrane.
427	L. Staphyloma.
409	L. Choroidal atrophy.

II.-Recommendations were made to guardians of pupils as regards the performance of the following operations on their wards :---

The recommendations were carried out in three cases.

TABLE VI.-Tanta Government School (certisee.).

(9) Caugas of Submorrial Printers.

 Where more than one of the following causes is present in the same or in both even unly one is given, order of importance 1, 3, 2.

Pan Corr (e) Terra Verra Risection	Par Gregor or treet		
	20.46		t Charges a positive of Anopholoula
11-11	34-24		 A - A metropia : (a) Mynerman sinoludius hypermatical (b) Mynerman sinoludius hypermatical
	25:*0		(A) Mannin timefanline mangdrautal minsed An
	82:0		(e) his affire body and vitreous disease of
	55-0		
12-13			(a) Fundma, discusse of
	12:00	1	and the second of the second station and beaution

			I.N. 2325-1913-400	ex.			
				-			
						out to white	114

103 Birstonn

 ∧ 1) β β. 	Tourse former
Is Perstetent pupilling membrane.	785
1. Stephylama.	
L. (Ihoroidal abreak y.	

individual Causes of Mindungan.

If .- Recommunications were made to quardians of empile as recard, the performance of

The recommendations were carded out in targe cases.



TRAVELLING HOSPITAL, FAYÛM.



TRAVELLING HOSPITAL, GÎZA.














HOPITAL OPHTALMIQUE DE SOHAG. Plans.-



















