## Epitome of current researches on subjects connected with medicine and the medical sciences / editors N.H. Martin, C.E. Stuart, H. Spargo.

#### **Contributors**

Martin, N. H. Stuart, C. E. Spargo, H. Coupland, W. H. Telford-Smith, Telford King's College London

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May 1st, 1892, before treatment Weight, 13 stone 9 lbs.

September 1st, 1892, after treatment Weight, 12 stone 6 lbs.

Dr. W. Hunter's Case, No, 63, page 26

## **EPITOME**

OF

## CURRENT RESEARCHES

ON SUBJECTS CONNECTED WITH

## Medicine and the Medical Sciences

#### **EDITORS:**

N. H. MARTIN, F.L.S.

C. E. STUART, B.Sc.

H. SPARGO, A.Sc., F.I.C.

## **BRADY & MARTIN**

NEWCASTLE-UPON-TYNE

Epitomes are helpful to the Memory -Watton

#### INTRODUCTION

The present number of our Epitome is entirely occupied with references to the treatment of disease by extracts of animal origin. The remarkable and complete success which has attended the treatment of Myxœdema by an extract prepared from the thyroid gland of the sheep has strongly directed the attention of scientists and physicians to this subject and has raised the hope that other human ailments which may be due to the disturbed function of other glands of the body, will be found to yield to a similar line of treatment. The papers published by Professor Brown-Séquard in France and Dr William Hammond in America assert that this has already been demonstrated, but the methods followed in France and America are so widely different from those which in England have indicated so clearly the cause and treatment of Myxædema that a few introductory comparisons may not be amiss. In France Prof. Brown-Séquard some years ago published an ingenious theory with regard to gland secretion and threw out many suggestions as to the possible use of extracts of various glands, but by further research he appears to have entirely convinced himself that most, if not "all the ills that flesh is heir to" may be cured by an extract from the testicles or "orchitic" fluid. We do not suppose that Prof. Brown-Séguard is responsible for the brochure of the enterprising pharmacien who calls the fluid (apparently on his own initiative) "Sequardine," but as this is advertised as the source from which physicians must supply themselves, a perusal of the pamphlet is interesting. According to this pamphlet, the fluid will apparently cure anything from eczema to cancer; locomotor ataxy is included in the list and only a doubt is thrown upon tuberculosis. The writer calls the fluid a "living principle" (principe vivant) a "generator of life" (générateur de la vie), a "preserver of organic energy" (conservateur de la synergie organique), and contrasts the marvellous effects of this life giving tonic with those

artificially provoked by pharmaceutical preparations (par les médicaments de la pharmacie). Moreover faith (in the power of this remedy) must be a potential quality of the physician who, armed with a Pravaz syringe and a bottle of Sequardine goes forth to combat disease, as in every case he must persevere during months of treatment and "it goes without saying that the injections against old age must be continued until death" (Il va sans dire que les injections contre la sénilité doivent être continuées jusqu'à la mort).

If we turn to America the case is not very different, for whilst the papers on this subject published in the Medical Journals assume the aspect of scientific contributions to medicine, we find there exists a company whose business it appears to be to exploit these Animal Extracts and who advertise them as being prepared "under the supervision of" the author of the papers. We think this will lead observers in this country to seek confirmatory evidence of their value from a possibly more disinterested source. The case of Myxœdema and its treatment is so entirely different, the origin and cause of the disease was worked out through years of patient investigation by men eminent in their departments of Physiology, Pathology, Chemistry and Medicine, and the treatment has been firmly established by scores of separate observers and has been demonstrated and recorded over and over again. We hope this is a prelude to further researches and conquests over disease in the same direction, but however long each separate investigation may take we are quite sure that no English physicians and scientists will seek assistance from or adopt methods suggestive of charlatanism.

N. H. M.

## Epitome of Current Researches

#### ANIMAL EXTRACTS IN THERAPEUTICS

Dr Brown-Séquard contributes a paper to the British Medical Journal (June 3rd and 10th, 1893), "On a New Therapeutic Method, consisting in the use of Organic Liquids extracted from Glands and other Organs," in which he refers to his own experiments and connection with the subject from 1869 onwards, and gives the process devised by himself and Professor d'Arsonval for making the extracts, and the experience of a number of continental physicians in the use of them. In his lectures, delivered in the Paris School of Medicine, in 1869, Dr Brown-Séquard advanced the theory that all glands, whether furnished with excretory ducts or not, possess, in addition to the external secretion, which is concerned with the more obvious function of the gland, an internal secretion, which gives to the blood principles which are of the highest importance to the health of the individual, and the absence of which is felt when the glands are extirpated or destroyed by disease. Further experiments confirmed the correctness of this view, and Dr Brown-Séquard inferred therefrom that, if he could introduce the internal secretion of the gland of a healthy animal into the blood of a man suffering from a train of symptoms caused by the arrested function of that gland, important therapeutic effects would In 1889 Dr Brown-Séguard announced that such a result could be obtained by injecting under the skin a liquid extract prepared from the glands, and he gives further details of experiments which were made by himself and Professor d'Arsonval to prove that large quantities of the liquid organic extracts, prepared and sterilised after their method, could be injected under the skin, and even into the veins and arteries, with perfect safety. Details are then given in the paper of the method of preparing the extracts and of filtering and sterilising them in the d'Arsonval filter, a picture of which is published. The remainder of the paper is taken up with recording what has been accomplished, and with suggestions for the further employment of this mode of treatment.

The chief fluid used by Dr Brown-Séguard has been an extract prepared from the sexual organs, which he calls "orchitic liquid." The doctor made his first communication on the orchitic liquid in June, 1889, and published an account of it in The Lancet, July 20th, 1889. His further experience fully confirms the statements made in that paper, and cases are cited which "positively establish that a good deal more than what I observed on myself has been obtained in a large number of old people." Of 405 cases of locomotor ataxy, after excluding 63 of doubtful diagnosis, there were 314 cases of great amelioration or cure. Superficial cancer was benefitted in 97 cases out of 103, the improvement being shown by "the healing of ulcers, the cessation of pain, of insomnia, of hæmorrhage, of all appearances of cachexia, and of every other symptom, except the presence of the tumour." Favourable results in the treatment of pulmonary tuberculosis is stated on the testimony of physicians, quoted by name, and confirmed "by more than 60 medical practitioners of Paris, or of the French provinces," The question of the cure of organic diseases is reserved, what is recorded applying to the cessation of morbid manifestations; but the doctor knows cases of "the cure of ulcers (in leprosy and cancer), of the disappearance of a fibrous tumour of the womb, and of morbid deposit of connective tissue in the heart, the arteries, and muscles." Experiments upon guinea pigs established the fact that mothers treated with "orchitic liquid" gave birth to larger, heavier, and stronger young than those not so treated, and, on the authority of Dr Kahn, a case is recorded of an ataxic debilitated woman, whose child had not moved in her sixth month of pregnancy, being treated with this fluid, when the child soon began to move with energy and was born in an extremely vigorous condition. The doctor then, somewhat inconsequently, refers to an "ovaric liquid," which, he states, acts with less power than the "orchitic liquid," but from which, he says, "sixty old women in Paris have derived benefit from its action, according to an American lady physician, Mrs Brown." Dr Brown-Séquard suggests "it would be important to make use of that special liquid in cases of removal of both ovaries, or of disease having destroyed them."

The study of the phenomena of anuria led the Doctor and Professor d'Arsonval to the conclusion that the urœmic symptoms are much less intense when the kidneys are not disorganised, and their internal secretion remained active, and to the inference from their experiments that patients, in such

cases, would be benefitted by the subcutaneous injection of a renal fluid. A case treated by Professor Dieulafoy appeared to support the correctness of this view, although the patient died. Reference is made to experiments showing the appearance of diabetes in dogs, from whom the whole of the pancreas had been removed, and to the use of a pancreatic liquid in the treatment of diabetes; but no case of cure had been recorded, and Dr Brown-Séguard states that the "orchitic liquid" has considerably more power against any form of diabetes than the pancreatic liquid." The liver is also stated to possess an "internal secretion," and the suggestion made that it would be well to make use of the hepatic liquid in cases of "extensive organic disease of the liver," but no evidence is adduced in support of this suggestion. Suprarenal liquid was tried in cases of Addison's disease, and splenic liquid in cases of leucocythœmia with but slight result, whereas, in both these diseases, Dr Brown-Séguard states his "orchitic liquid" to possess considerable power. In the remainder of the paper slight reference is made to the injection of "organic liquid extracts drawn from other parts than glands," but no other suggestions are made on the authority of the doctor himself.

#### ON CERTAIN ORGANIC EXRACTS THEIR PREPARATION AND PHYSIOLOGICAL AND THERAPEUTICAL EFFECTS

Dr William A. Hammond contributes an article on the above subject to the *New York Medical Journal*, of Jan. 28th, 1893. After referring to the experiments of Brown-Séquard the author mentions his own systematic researches which have been continuously made since 1889.

He then refers to some results published in the same Journal, August 31st, 1889, of the entire cure of a case of traumatic neuritis, two cases of cardiac weakness with neurasthenia, one of sexual impotence, two of muscular rheumatism and lumbago, one of hemiplegia, one of melancholia, and one of cardiac asthma, the result of excessive mental work, all of which were cured by the injections of testicular juice. Dr Hammond had nothing to retract from what was written more than three years before, but the additional experience had convinced him that "we have in testicular juice a valuable addition to our materia medica, the precise worth of which, however, it is not yet in our power to establish." The Dr then refers to sterilization of testicular juice, and expresses his belief that experiments with such fluids are

worthless, he suggests instead the microscopical examination of the fluid before using it for injection. He goes on to state the theory upon which his experiments have been conducted. and he is confident that his system is "not only well founded in fact, but is in accordance with physiological law, and that we have in it philosophical means of combating disease." Dr Hammond's system is founded on the fact that each organ of the body in a healthy state absorbs from the blood the material necessary for its own growth and preservation, and that in diseased conditions of a particular organ this power may be lost or impaired. Under such circumstances if we can inject directly into the blood the peculiar matter which an organ requires we supply the missing element, and enable the organ to regain its normal condition. "Let us suppose a person suffering from an exhausted brain, the result of excessive brain work. Three hearty meals are eaten every day, but no matter how judiciously the food may be arranged, the condition continues. Now, if we inject into that persons blood a concentrated extract of the brain of a healthy animal, we supply at once the pabulum which the organ requires. Then, if under this treatment, the morbid symptoms disappear, we are justified in concluding that we have successfully aided Nature in doing that which unassisted she would not accomplish." Dr Hammond believes this to be applicable to all the other organs of the body, with the exception of the kidneys and liver, and these being excretory organs cannot properly be used for preparing extracts to be introduced into the blood. The Doctor then gives some account of the experiments he has made, and the formula which he has finally adopted for his extract of brain, which he calls "cerebrine," and which he states may be taken as a type of the process to be employed in making extracts from the other organs. With his "cerebrine" Dr Hammond has obtained "decided advantage in cases of nervous prostration—the so-called neurasthenia—in insomina due to cerebral hypercemia, in migraine, hysteria general paresis, hebephrenia and epilepsy."

The remainder of the paper is taken up with combating the statement that there is no difference between the action of medicines taken into the stomach and injected into the blood by hypodermic injections.

He maintains that while it may be true that some substances are not altered by the gastric juice, it is not so with regard to those of animal origin, and he found that when such substances "are enclosed in capsules so as to reach the stomach without coming in contact with the mucous membrane of the

mouth, they are absolutely without physiological or therapeutical effect so far as can be perceived, even when given in quantities of a teaspoonful or more." He found, however, that if some of the animal extracts are put upon the tongue in double the dose used for injection, and allowed to remain in the mouth without being swallowed, they are absorbed and exert a slower but still decided effect.

## MYXCEDEMA, AND ITS TREATMENT BY A LIQUID EXTRACT PREPARED FROM THE THYROID GLAND

In December, 1883, a Committee of the Clinical Society, of London, was appointed "to consider the subject of Myxædema." The report of this committee was published as a supplement to the Transactions of the Society in 1888, in an octavo volume, of 215 pages, and ten sheets of tables, giving an exhaustive analysis of 109 cases of Myxædema which had been recorded. The body of the volume is divided into six sections. as follows:—I. Historical Summary; II. Detailed and General Analysis of Symptoms: III. Pathological Report, signed by the following three members of the Committee—John Cavafy, James F. Goodhart, and W. B. Hadden; IV. Report of Chemical Investigations of the Tissues and Organs from cases of Myxædema in Men and Animals, signed by W. D. Halliburton; V. Report of Experimental Researches into the Function and Pathology of the Thyroid Gland, in connection with the conditions termed Myxœdema, Cachexia Strumipriva, Cretinism, etc., signed by Victor Horsley; VI. Report on the Results of Total and Partial Extirpation of the Goitrous Thyroid Gland in Man, signed by Felix Semon. These sections are followed by a General Summary, signed by William M. Ord. In the next three pages are published the "Conclusions," signed by every member of the Committee, and which is stated in the Introduction to be "an exposition of the Committee's unanimous opinion." "In an Appendix are embodied Dr Stephen Mackenzie's investigations on the weight of the thyroid body at different periods of life, and in persons dying from various causes," and "Finally a Bibliography of Myxædema is added to facilitate future enquiries."

The tables at the end of the volume, under eighty-eight headings, give a complete analysis of the condition, antecedents, symptoms, changes intellectual and bodily, treatment, mode of death, and other remarks, so far as these have been recorded in the references quoted.

Following the publication of the above Report, various suggestions were made as to the possibility of curing the complaint by supplying to the animal economy the ingredient which, in the normal condition of the thyroid gland, maintained the being in health. In 1889 and 1890 this mainly took the form of suggestions for the transplantation, or grafting of healthy thyroid glands from some animal into the affected person. In 1891 a great advance upon this method was made by Dr George R. Murray, of Newcastle-on-Tyne, who inferred from the etiology of the disease and the results which had been obtained by grafting, that "it seems reasonable to suppose that the same amount of improvement might be obtained by simply injecting the juice or an extract of the thyroid gland of the sheep beneath the skin of the patient." Dr Murray commenced the treatment of a case in April, 1891, and reported the successful result to the meeting of the British Medical Association, held at Bournemouth, in July of that year. This method of treatment has since then been followed with most striking success, and the published results are characterized by the Editor of The British Medical Journal (Feb. 4th, 1893), as "the most striking and significant triumphs which have ever been won in the field of practice." If any one is inclined to think this language in the very smallest degree exaggerated, let him turn to the column "treatment," in the tables appended to the report to which we have referred, and he will see that anything like permanent improvement of the cases under the various forms of treatment is unknown, and even "slight improvement" is only recorded in a few cases. In fact, up till 1891, Myxœdema was practically an incurable complaint,\* whereas, since the commencement of its treatment by thyroid extract it has become, if not absolutely curable, at least one of the most tractable of maladies, so far as the relief of all the unpleasant and dangerous symptoms are concerned. It will be impossible, in the space at our command, to give an adequate summary of the papers which have recently appeared on this subject; but we give a list of many of the more important of these in the following table, and under the heading "Remarks," we have endeavoured to indicate the most striking feature of each paper, so that medical men may at once turn to the one most likely to supply the information sought. We gather, generally, that in giving the extract by hypodermic injection, great care should be taken to sterilise the syringe and especially the

<sup>\*</sup> Professor Victor Horsley, in 1890, writes—"These diseases (Myxœdema, Cachexia Strumipriva, and allied diseases), are hopelessly incurable with present remedies."—B. M. J., Feb. 8, 1890, page 287.

needle, that the injection should be made very slowly, and that it is not necessary to repeat the dose as often as when the liquid extract or the powder is given by the mouth; in the latter case a daily dose at first is not too much; but even here it is desirable that the patient refrain from exercise for some little time after taking each dose. For detailed information as to treatment, see the paper, by Dr G. R. Murray, in *The Lancet*, May 13th, 1893.

#### CRETINISM

In *The Lancet*, March 18th, 1893, page 580, Dr Edward Carmichael, of Edinburgh, publishes, with photographs before and after treatment, a most interesting case of Cretinism successfully treated by the hypodermic injection of Thyroid Extract and feeding.

The child, between five and six years of age, was like an infant, she had broad and massive features, dry and harsh skin, prominent abdomen, made no attempt to walk, and had very feeble intelligence. From April to October, 1892, the child was treated with hypodermic injections of thyroid extract, with the result of continuous improvement.

"After the first few injections the appearance of the child had completely changed; there was a marked diminution in the size of the abdomen, so that a bodice which fitted before the commencement of the treatment now overlapped by four or five inches. The thick lips and alæ nasi were now of normal size, the skin was pliant and soft, the temperature to touch improved, and the hair apparently more healthy, though still sparse. As week by week passed some mark of improvement was always seen. In October the child began to walk, and soon was running about and even walking long distances. The head smaller to appearance, became covered with a fine crop of healthy hair. Marked improvement in intelligence was seen in many little actions."

NOTE.—Dr Edward Carmichael stated in his article that the Thyroid Extract which produced the above remarkable result was prepared by Brady and Martin, of Newcastle-upon-Tyne, but the Editor of *The Lancet* omitted to print the fact. Is it merely a coincidence that in another portion of the same number of *The Lancet* there was published more than two pages of Advertisements relating to this subject?—[Eds.]

## SOME RECENT LITERATURE ON THYROID GLAND, MYXŒDEMA, CRETINISM, &c.

| AUTHOR'S NAME                           | TITLE OF PAPER  | WHERE<br>PUBLISHED   | REMARKS   |
|---|---|--|---|
| Anderson, Dr McCall                     | The treatment of Myxœdema   | Practitioner,<br>Jan., 1898, p.<br>36                          | Mentions treatment<br>by other means than<br>Thyroid Extract,<br>gives illustrations,<br>and sums up with<br>comparisons between<br>hypodermic method |
| Baber, Dr E. Cresswell                  | Feeding with fresh<br>Thyroid Glands in<br>Myxædema   | B. M. J., vol.<br>i., '98, p. 10                               | and by the mouth This method deserves a trial but enjoins careful watching during administra- tion.   |
| Barron, Dr A.                           | Two cases of Myxœdema treated by<br>Thyroid injections  | B. M. J., vol.<br>ii., '92, p. 1384                            | Gives mode of preparing Extract slightly different from Dr. Murray's  |
| Beatty, Dr. Wallace                     | A case of Myxœdema<br>successfully treated<br>by Massage and<br>Hypodermic injec-<br>tions of the Thyroid<br>Gland of a Sheep | B. M. J., vol.<br>i., '92, p. 544                              |   |
| Benson, Dr                              | Case of Myxœdema<br>of long standing<br>treated by adminis-<br>tration of Thyroid<br>Extract by mouth                         | B. M. J., vol.<br>i., '98, p. 795                              | Suggests that all cases should be commenced by mouth and hypodermic treatment be reserved for obstinate   |
| Berry, Mr James                         | Diseases of the Thyroid<br>Gland  | Lancet,vol. i., '90, p. 195;<br>B. M. J., vol. i., '90, p. 180 | cases Paper read and discussed at the Pathological Society of London. Author suggests transplantation of Thyroid Gland in Myxædema and Cretinism      |
| Beadles, Mr Cecil F.                    | A case of Myxœdema<br>with Insanity treat-<br>ed by the sub-<br>cutaneous injection<br>of Thyroid Extract                     | B. M. J., vol.<br>ii., '92, p. 1386                            | History of the case<br>from 1884 and details<br>of successful treat-<br>ment from May to<br>October, 1892   |
| Bramwell, Dr Byrom<br>Browne, Mr Lennox | The Clinical Features<br>of Myxœdema  | Edin. M. J.,<br>May,'93, p.985                                 |   |
|   | Congenital enlarge-<br>ment of the Thyroid;<br>Removal; Recovery  | Lancet, vol. i., '90, p. 279                                   |   |
| Carmichael, Dr. Edward                  | Cretinism treated by<br>the Hypodermic in-<br>jection of Thyroid<br>Extract and by<br>feeding                                 | Lancet,vol.i.,<br>'98, p. 580                                  | Child six years old<br>treated with success<br>Photographs before<br>and after treatment  |
| Carter, Dr E. C.                        | A case of Myxædema<br>with Insanity treat-<br>ed by injection with<br>Extract of Thyroid<br>Gland                             | B. M. J., vol.<br>i., '90, p. 805                              |   |
| Corkhill, Dr J. G. G.                   | Myxædema with en-<br>larged Thyroid treat-<br>ed by subcutaneous<br>injections of Thyroid<br>Extract; Recovery                | B. M. J., vol.<br>i., '98, p. 8                                | See Case, No. 27, Fol. 20   |

## SOME RECENT LITERATURE ON THYROID GLAND, MYXŒDEMA, CRETINISM, &c. (continued)

| AUTHOR'S NAME          | TITLE OF PAPER  | WHERE<br>PUBLISHED  | REMARKS   |
|------------------------|---|---|---|
| Cuningham, Dr. H. W.   | Myxœdema associat-  | B. M. J., vol.  | Letter  |
| Davies, Dr A. T        | 6d with Goitre<br>The treatment of  | ii., '92, p. 1386<br>Lancet, vol.                                     | Letter advocates the  |
| Do                     | Myxædema The treatment of Myxædema by Thyroid Gland.  | i., '98, p. 328.<br>B. M. J., vol.<br>i., '98, p. 668                 | use of a powder Alluded to variations in size of Thyroid Glands and con- sequent need of caution in regulating dose   |
| Duckworth, Sir Dyce    | Sequel to a case of Myxœdema  | B. M. J., vol.<br>i., '92, p. 911.<br>Lancet, vol.<br>i., '92, p. 976 |   |
| Dunlop, Dr. G. H. M.   | Six cases of Myx-<br>ædema treated by<br>Thyroid feeding  | Ed.M.J., May,<br>1898, p. 1005  | Although the title of this paper is treatment by "Thyroid feeding" the first five cases are treated by "Thyroid Extract" and only the sixth by "the of a Thyroid Gland" |
| Fenwick, Mr E. Hurry   | The Diuretic Action<br>of fresh Thyroid<br>Juice  | B. M. J., vol.<br>ii., '91, p. 798                                    |   |
| Do.                    | The subcutaneous injection of Thyroid Juice in Myxædema   | B. M. J., vol.<br>ii., '92, p. 613                                    |   |
| Do.                    | The Effects of Fresh<br>Thyroid Juice in<br>Myxædema  | Ibid., p. 894   |   |
| Fox, Dr E. L           | A case of Myxœdema<br>treated by taking<br>Extract of Thyroid<br>by the mouth.  | B. M. J., vol.<br>ii., '92, p. 941                                    |   |
| Gibson, Dr J. L.       | The Function of the<br>Thyroid Gland  | B. M. J., vol.<br>i., '92, p. 1049                                    | Letter anent Prof. Victor Horsley's paper in the same Journal, Jan. 30th and Feb. 6th   |
| Gourlay, Mr F          | Thyroid Medication;<br>a Suggestion   | B. M. J., vol.<br>ii., '92, p. 1459                                   | Suggests to mince<br>Thyroid Gland very<br>fine and dry at a low  |
| Hale, Dr G. E.         | Four cases of Myxœdema treated by injections of Thyroid Extract   | B. M. J., vol.<br>ii., 92, p. 1428                                    | temperature   |
| Hanan, Dr Arthur       | Cretinism and Myx-<br>œdema   | B. M. J., vol.  |   |
| Henry, Dr. J. P.       | A case of Myxœdema<br>cured by Thyroid<br>Extract   | ii., '90, p. 786<br>B. M. J., vol.<br>i., '93, p. 737                 | Gives portraits of<br>case before and<br>after treatment  |
| Holman, Dr Constantine | Case of Myxædema<br>treated by Thyroid<br>Feeding   | B. M. J., vol.<br>i., '98, p. 114                                     | Good case of treat-<br>ment by feeding  |
| Horsley, Prof. Victor  | Note on a possible<br>means of arresting<br>the progress of<br>Myxœdema, Cach-<br>exia, Strumipriva,<br>and allied diseases | B. M. J., vol.<br>i., '90, p. 287                                     |   |

## SOME RECENT LITERATURE ON THYROID GLAND, MYXŒDEMA, CRETINISM, &c. (continued)

|   |  | 1   |   |  |
|---|--|---|---|--|
| AUTHOR'S NAME   | TITLE OF PAPER   | WHERE<br>PUBLISHED                            | REMARKS   |  |
| Horsley, Prof. Victor   | Further note on the<br>possibility of curing<br>Myxœdema   | B. M. J., vol.<br>ii., '90, p. 201            |   |  |
| Do.   | Remarks on the func-<br>tion of the Thyroid<br>Gland: a Critical<br>and Historical Re-<br>view.                                | B. M. J , vol.<br>i., '92, pp. 215<br>and 265 |   |  |
| Do.   | The Function of the Thyroid Gland.   | B. M. J., vol.<br>i., '92, p. 1113            | Reply to Dr. J. L.<br>Gibson's letter   |  |
| Lundie, Dr R. A A case of Myxædema<br>treated with Thy-<br>roid Extract and<br>Thyroid Feeding. |  | B. M. J., vol.<br>i., '98, p. 64              | Gives portraits of<br>case before and after<br>treatment and en-<br>joins caution as to<br>unusual exertion<br>during treatment   |  |
| Do  | The Treatment of Myxædema.   | Ed.M.J., May,<br>1898, p. 996                 | Valuable paper with<br>table of 46 published<br>cases   |  |
| Mackenzie, Dr Hector  | Tuberculous Larynx<br>in a case of Myxœ-<br>dema.  | B. M. J., vol.<br>ii., '91, p. 896            |   |  |
| Do.   | A case of Myxædema<br>treated with great<br>benefit by feeding<br>with fresh Thyroid<br>glands.                                | B. M. J., vol.<br>ii., '92, p. 940            |   |  |
| Do  | Myxædema and the<br>recent advances in<br>its treatment.   | Lancet, vol. i., '93, p. 123.                 | A valuable summary<br>of the subject  |  |
| Murray, Dr George R.  | Note on the treat-<br>ment of Myxœdema<br>by hypodermic in-<br>jections of an Ex-<br>tract of the Thyroid<br>gland of a sheep. | B. M. J., vol.<br>ii., '91, p. 796            | This paper was read at the meeting of the British Medical Association at Bournemouth in July, 1891, and is the first recorded case of the successful use of Thyroid Extract |  |
| Do.   | The Pathology and<br>Treatment of Myx-<br>cedema. Remarks<br>on the treatment of<br>Myxcedema, with<br>notes of four cases.    | B. M. J., vol.<br>ii., '92, p. 449            | Thylora Davidos   |  |
| Do.   | The treatment of Myxœdema and Cretinism.   | Lancet, vol. i., '93, p. 1130                 | Case of a male treated<br>with photographs.<br>Valuable suggestions<br>as to the use of<br>Thyroid Extract and  |  |
|   |  |   | precautions in ad<br>ministering  |  |

## SOME RECENT LITERATURE ON THYROID GLAND, MYXŒDEMA, CRETINISM, &c. (continued)

| AUTHOR'S NAME           | TITLE OF PAPER  | WHERE<br>PUBLISHED                           | REMARKS   |
|-------------------------|---|--|---|
| Napier, Dr. Alex.       | The Thyroid treat-<br>ment of Myx cedema:<br>the selection of Thy-<br>roid gland for ad-<br>ministration. | Lancet, vol.<br>i., '93, p. 273              | Dr Napier dissected 100 Thyroids and found 50 more or less diseased and cautions the readers of the Lancet against relying upon "unskilled" selection of the glands. We have dissected many thousands of glands and have not found the abnormal ones to exceed 2 per cent.—Eds. |
| Schwarz, —.             | The value of injections of Thyroid juice.   | B. M. J., vol.<br>ii., '92, Epit.<br>No. 460 | Used an aqueous extract with negative results   |
| Shapland, Mr J. Dee     | The treatment of Myxœdema with the Thyroid gland of the sheep.  | B. M. J., vol.<br>i., '93, p. 738            | Fed patient with "underdone Thyroid Gland." Photographs   |
| Shaw, Dr Claye          | Case of Myxædema<br>with restless Melan-<br>cholia treated by<br>injections of Thyroid<br>Juice: Recovery | B. M. J., vol.<br>ii., '92, p. 451           | Gives bulletin of treat-<br>ment from April 8 to<br>July 8, with sheep's,<br>cows' and calves'<br>thyroids, and with<br>B. liquid extract   |
| Stewart, Prof. Grainger | The treatment of<br>Myxœdema by Thy-<br>roid Feeding: its ad-<br>vantages and risks                       | Practitioner,<br>July, 1883,<br>p. 1.        | Lays special stress<br>on the necessity of<br>examining the heart<br>before commencing<br>treatment. See note<br>page 34  |
| Sollier,                | Basedow's Disease and Myxœdema  | B. M. J., vol.<br>i., '92, Epit.,<br>136     | pageor  |
| Stokes, Sir William     | Operations on the<br>Thyroid Gland  | B. M. J., vol.<br>ii., '91, p. 75            | From proceedings of<br>Royal Academy of<br>Medicine in Ireland  |
| Thomson, Dr John        | Note on a case of Myxœdema which ended fatally shortly after commencement of Thyroid treatment.           | Ed.M.J., May,<br>1898, p. 1014               | Patient treated by Thyroid Glands. Post mortem by Dr Thomson and Dr Byrom Bramwell. Microscopic report by Dr Gordon Sanders   |
| Vermeluen,, Mr F.       | The treatment of Myxœdema by feeding with Thyroid glands.   | B. M. J., vol.<br>i., '98, p. 266.           | by Di Goldon Sandels  |
| Whitwell, Dr James R.   | The nervous element in Myxædema.  | B. M. J., vol.<br>i., '92, p. 430            | Interesting paper with illustrations of Nerve cells of motor region, healthy, in epilepsy with dementia and in Myxædema   |
| Williams, Mr H          | Graves's Disease and Myxœdema.  | B. M. J., vol.<br>j., '98, p. 799            | ary x ce coma   |

#### TABLE OF RESULTS OF THE

\* Under " Where Recorded "

| No. | DOCTOR'S NAME           | Sex &<br>age of<br>Patient | III  | Treated by               | Dose and Dura<br>Treatmer                     |
|-----|-------------------------|----------------------------|--|--------------------------|---|
| 1   | Abbot-Anderson, Dr.W.M. | F. 32                      |  | Hypodermic               | 15 injections of 1<br>and three thyr<br>days  |
| 2   | Aikman, Dr J.           | F. 45                      | 24 years   | Hypodermic and internal  | 20 minims by h injection once a v             |
| 3   | Do                      | F. 57                      | 12 years   | Do.                      | Do.   |
| 4   | Anderson, Prof. M'Call  | F. 30                      | ? 10 years   | Internal                 | 20 minims daily, no often                     |
| 5   | Atkins, Mr F. D.        | F. 53                      | 15 months  | Hypodermic<br>& Internal | 20 drops every otl as<br>injection for 8 week |
|     |                         |                            |  |                          |   |
|     |                         | 10.3                       |  |                          |   |
| 6   | Baber, Dr E. Creswell   | M. 53                      | 5 or 6 years   | Internal                 | 5 glands in 3 week                            |
| 7   | Barley, Dr D. H.        | F. 30                      | First<br>diagnosed<br>2 years<br>before<br>treatment | Do.                      | 15 minims daily                               |
| 8   | Barron, Dr              | F. 64                      | 5 years  | Hypodermic               |   |
| 9   | Do.                     | F. 55                      |  | Do.                      |   |
|     |                         |                            | 7.56   |                          |   |

of case sent to B. and M.

| ult                                   | Improvement commenced  | Unpleasant Effects<br>and Cause of them   | Further Remarks  | Where<br>Recorded                                   |
|---------------------------------------|--|---|--|---|
| mprove-<br>ll main-                   |  | Only a sensation of<br>faintness and numb-<br>ness in the arms<br>after the first two<br>injections | ,  | Journal of<br>Laryngology<br>Rhinology &<br>Otology |
| l cure                                | Inbody heat after<br>10 days, growth<br>of hair under<br>1 month, men-<br>struation six                              | Diarrhea, flushing<br>and oppression with<br>intermitting pulse.<br>Once abscess                    |  |   |
|                                       | weeks Do. menstruation 4 months  | Diarrhœa once,flushing of face, and intermitting pulse  |  | *   |
| proved                                | Within a few days  | None  |  | Practitioner,<br>Jan. 1893, p.                      |
| atisfac-<br>Patient<br>atively<br>ell | About end of the 4th week  | Abscess in back causing a good deal of trouble  | I find it necessary for my patient to take the remedy internally occasionally, as sometimes her face becomes swollen and her voice altered. Tried the raw Sheep's thyroid, it did the patient good but was very nauseating. The Extract is more pleasing & efficacious | **  |
| proved                                |  | Depression, head-<br>ache, and aching in<br>back and limbs;<br>nausea                               |  | B.M J., i. 1893,<br>p. 10                           |
| cally<br>ed                           | Within a fort-<br>night  | First dose taken was<br>25 minims by mis-<br>take—fainting, col-<br>lapse                           | Badcase. Pronounced mental symptoms (loss of memory &c.) almost unable to walk from staggering. Was treated with raw glands with slight success for one month before extract used. Difficult to obtain raw gland   | *   |
| ment<br>n most<br>able                |  |   | One taking 2 lobes weekly, the other 1 gland, by injection weekly  | Ib. ii, 1892, pp.<br>1197 & 1384                    |
|                                       | Inless than seven<br>weeks, after thir-<br>teen injections,<br>the weight had<br>fallen from 10st<br>5lbs to 9st 1lb |   |  | L'pool M. J.,<br>Jan., 1898, p.<br>142              |

### TABLE OF RESULTS OF THIS

\* Under " Where Recorded "

| No.      | DOCTOR'S NAME        | Sex &<br>age of<br>Patient | III                          | Treated by        | Dose and Dura<br>Treatmen                                |
|----------|----------------------|----------------------------|------------------------------|-------------------|--|
| 10       | Barton, Dr J. K.     | F. 60                      | 2 years                      | Hypodermic        | 15 minims every third day for 6 we s                     |
| 11       | Bateman, Mr W. A. F. | F. 46                      | 10 years                     | Internal          | 20 drops daily at 1 to 15 drops twice a milk             |
| 12       | Do.                  | F. 50                      | About 6<br>years             | Do.               | 15 drops in milk   |
| 18<br>14 | Do.<br>Beadles, Dr   | F. 50<br>F. 50             | About 12<br>years<br>8 years | Do.<br>Hypodermic | 15 drops every oth av<br>milk<br>20 minims twice w.50    |
| 15       | Beatty, Dr Wallace   | F. 45                      | 5 or 6 years                 | Do.               | 5 glands in 2 months                                     |
| 16       | Benson, Dr Hawtrey   | F.<br>middle<br>age        | 8 years                      | Internal          | 10 minims twice three weeks, then twice daily for result |
| 17       | Bentlif, Mr P. B.    | F. 88                      | 9 years                      | Powder internally | 5 grains gradually                                       |
| 18       | Blandford, Mr. J. W  |                            | 5 years                      | Internal          | 10 minims twice de la                                    |
| 19       | Do                   |                            | 2 years                      | Do.               | Do.  |
| 20       | Bouchard, Prof.      |                            |                              | Hypodermic        |  |
| 21       | Brand, Dr A. T.      | F. 59                      | About 2<br>years             | Do.               | 15 minims twice a  |
| 22       | Calvert, Dr          | F.                         | 12 years                     | Internal          | l gland thrice week                                      |
| 23       | Carter, Dr E. C.     | F 43                       |                              | Hypodermic        |  |
|          |                      | 1                          |                              |                   |  |

if case sent to B. and M.

| ult  | Improvement commenced   | Unpleasant Effects<br>and cause of them  | Further remarks  | Where<br>Recorded               |
|--|---|--|--|---------------------------------|
| actory,<br>chang-<br>appear-<br>n mind<br>vigour.<br>rellings<br>beared.<br>nealed | Ten days after<br>treatment and<br>went on rapidly<br>afterwards                                  | None   | I have seen this patient two months after treatment ceased and she was perfectly well                          | D. M. J., May,<br>1893          |
| to be ct cure.   | During first fort-<br>night of treat-<br>ment   | The 20 drops daily was too much and patient had severe headache and a                        | A well-marked case<br>of Myxœdema, and<br>treatment has been<br>most remarkable                                | *                               |
| artling<br>Treat-<br>con-  |   | papular rash<br>None   | Treatment seems to have turned this lady into a young and good looking woman. She is the mother of 12 children |                                 |
| aprove-  | In the first week   | None   |  | *                               |
| ed both<br>sical &<br>con-   | In about a fort-<br>night   | Heat and nausea  | A maniacal patient   | B.M.J., ii. '92,<br>p. 1386     |
| ically   | A marked improvement in the patient's condition was noticeable within one week                    | None   |  | Ib. i. 1892, p. 544             |
| te re-   | In about three weeks  | None   | Patient now takes<br>6 minims daily to<br>maintain the re-<br>covery and it is<br>sufficient.                  | B.M.J., April<br>15, 93, p. 795 |
| illy re-   | About a week<br>after commenc-<br>ed treatment<br>Sudden death                                    | Faintness, severe headache   |  | *                               |
| treat-   | from syncope  |  |  |                                 |
| ement  | Within a fort-<br>night but re-<br>lapsed after a<br>time and im-<br>proved again on<br>treatment | None   |  | *                               |
| ad   | ******  | Headache and pains in chest and limbs  |  | Lancet, ii. '92,<br>p. 807      |
| nprove-<br>of all<br>oms   | Within a fort-<br>night   | Great feeling of<br>faintness on two<br>occasions, probably<br>due to too rapid<br>injection | Tumours have twice<br>formed at site of<br>injection, but abscess<br>has never formed.                         |                                 |
| better   |   |  | Gland partly cooked  | Ib. i. 1893, p. 248             |
| ed   | After six injections  | Once local inflama-  | Cows' and pigs'<br>thyroids used   | B.M.J., i. 1892,<br>p. 805      |

### TABLE OF RESULTS OF THE

\* Under " Where Recorded"

| No.       | DOCTOR'S NAME       | Sex<br>age<br>Pati | of of    | TII                 | Treated by   | Dose and Durat<br>Treatmen                                      |
|-----------|---------------------|--------------------|----------|---------------------|--|---|
| 24        | Chopinet, Dr        | F.                 | 23       | 2 years             | Hypodermic   | ½ gland in three fortnightly                                    |
| 25        | Clarke, Dr Mitchell | M.                 | 48       |                     | Do.  |   |
| 26        | Do.                 | F                  |          | ******              | Do.  |   |
|           | Corkhill, Dr J .G.  | F.                 | 32       |                     | Do.  | September to N 1892, 15 minims th                               |
| 27        | Berry, Dr H. P.     | F.                 | 32       | 1 year              | Hypodermic<br>and Powder   | a week<br>September 24th,<br>now                                |
| 28<br>28* | C Do. Dr T          | F.<br>F.           | 68<br>38 | 10 years<br>4 years | Hypodermic<br>& Internal   | About 10 minims 4 months and 2 mc                               |
| 29        |                     | F.                 | 64       | 6 months            | Internal   | 10 drops daily. 1 March and April                               |
| 30        | Davidson, Dr G.     | F.                 | 49       | Nearly<br>3 years   | Hypodermic   | 30 minims twice from middle of Ja 70 end of March, 1893         |
| 31        | Davies, Dr A. T.    | M.                 | 43       | 12 years            | Do.  |   |
| 32        | Do.                 | F.                 |          |                     | Do.  |   |
| 33        | Do.                 | F.                 | 47       |                     | Internal   | Powder representin  |
| 34        | Do.                 | F.                 |          |                     | Do.  | 1st twice weekly, the Do.                                       |
| 35        | Do.                 | M.                 | 45       | 6 years             | Do.  |   |
| 36        | Dunlop, Dr Melville | F.                 | 46       | 3½ years            | Do.  | In most cases to per  |
| 37        | Do.                 | F.                 | 46       | 18 years            | Do.  | thrice weekly. As   |
| 38        | Do.                 | F.                 | 43       | 2 years             | Do.  | ment resulted dosa<br>ually diminished u<br>established, when f |
| 39        | Do.                 | F.                 | 56       | 9 years             | Do.  | are given every day   |
| 40        | Do.                 | F.                 | 52       | 2 years             | Do.  | interminable.   |
| 41        | Do.                 | F.                 | 60       |                     | Do.  | Do.   |
|           | -                   |                    |          | and a               | A STATE OF THE PARTY OF THE PAR |   |

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| The state of the              |  |   |  |   |
|-------------------------------|--|---|--|---|
| sult                          | Improvement<br>Commenced   | Unpleasant Effects<br>and<br>Cause of them  | Further Remarks  | Where<br>Recorded   |
| sely im-                      |  | Pain in back and<br>general fatigue for<br>24-36 hours after  | Thymus Extract<br>used at first, without<br>improvement  | Soc. de Biol.<br>Paris, 1892,<br>iv. p. 602               |
| proved                        |  | injections  |  | B.M.J., ii, 1892<br>p. 451                                |
| 10.                           |  |   |  | Ib. ii. 1892, p. 451                                      |
|                               | At once  | None  | Thyroid enlarged   | B. M. J., i., '98,<br>p. 8                                |
| and                           | Almost immediately   | An attack of fainting twice after injections  | When under the influence of Thyroid the patient lost weight  | B. M. J.  |
| reat im-<br>cent              | Almost immediately   | None except some<br>uneasiness caused<br>by hypodermic in-<br>jections.   | Patients continue to<br>be somewhat weak   | *   |
| ry                            | In about a week  | Swelling of Parotid<br>and submaxillary<br>glands from a single<br>treble dose  | Whenever Thyroid is discontinued the Myxædema symptoms re-appear. Keeps well when she takes the Thyroid Extract, daily 5 drops | Case referred<br>to in Edin.<br>Med. Journ.,<br>May, 1893 |
| in the<br>extract<br>even     | After first injection  | None  | Used the extract<br>once, when 15 days<br>old, without any<br>unpleasant result  | u   |
| y im-                         |  | None  | Relapse after a few<br>weeks' interval.  | Clin. Soc.<br>Trans., vol.<br>25, p. 306.                 |
| ed                            |  |   |  | B. M. J., ii<br>1892, p. 451.                             |
| mproved                       |  |   | Lost 4 stone under treatment.  | Lancet, i. 1893,<br>p. 248.                               |
| ed                            |  |   |  | Do.   |
| 0.                            |  |   |  | Do.   |
| ite re-<br>ion to<br>i in six | Improvement<br>noticed in a few<br>days, or in a<br>week at longest<br>both by patients<br>and friends | Nausea, vomiting, want of appetite, pains in limbs and over chest, faintness occurred in two cases to a slight degree. In no case were these symptoms severe. In one case palpitation and intermittent pulse, probably due to interference with balance of circulation owing to great loss of body weight |  | Ed. M. J., May, 1806                                      |

#### TABLE OF RESULTS OF THE

\* Under " Where Recorded"

| No. | DOCTOR'S NAME          | Sex &<br>age of<br>Patient | III               | Treated by  | Dose and Dura<br>Treatmen                                  |
|-----|------------------------|----------------------------|-------------------|-------------|--|
| 42  | Dunlop, Dr D. Melville | M. 64                      | 15 or 16<br>years | Pure glands | 1-6th of a gland week                                      |
|     |                        |                            |                   |             |  |
|     |                        |                            |                   |             |  |
| 43  | Dunlop, Mr J.          | F. 54                      | 1 year            | Internal    | 10 minims twice ; if first week than the aday              |
| 44  | E Dr G                 | F. 53                      | 5½ years          | Do.         | 1 drachm during at<br>20 minim doses,<br>till present date |
| 45  | Fenwick, Dr E. Hurry   | F.<br>3 cases              |                   | Hypodermic  | -  |
| 46  | Fox, Dr E. L           | F. 49                      |                   | Internal    | ½ gland twice a we-  |
| 47  | Gibbings, Dr A. T.     | F. 42                      | A year or<br>more | Do.         | 10 minims twice first, afterwards every other day          |
| 48  | Goodchild, Mr T. A.    | F. 58                      | 3 years           | Do.         | 15 minims daily now 5 minims dail                          |
| 49  | Green, Mr A. Withers   | F. 26                      | 5 years           | Hypodermic  | First 3 months 2 twice a week, next once a week            |
|     | Garage Land            |                            |                   |             |  |
| 50  | Hale, Dr               | F. 48                      | 15 years          | Do.         | 25 minims weekly   |
| 51  | Do.                    | F. 46                      | 2 years           | Do.         | Do.  |
| 52  | Do.                    | F. 54                      | 7 years           | Do.         | Do.  |
| 58  | Do.                    | F. 27                      | 1½ years          | Do.         | Do.  |

case sent to B. and M.

| lt  | Improvement                    | Unpleasant Effects<br>and<br>Cause of them  | Further Remarks   | Where<br>Recorded                           |
|---|--------------------------------|---|---|---|
| Man<br>at by<br>everty<br>treme<br>is be-<br>tment<br>ced |                                |   | In this case the man was so weak before treatment commenced, that he had to be fed and nursed like a baby. I feel certain death would have occurred in any case quite independently of treatment. | Ed.M.J., May,<br>1893                       |
| im-   | Quite visible after first week | None  | ment  | #   |
| ly to-<br>overy.<br>years<br>ins to<br>young              | Within 3 or 4<br>weeks         | Fugitive pains and<br>some soreness in<br>the neighbourhood<br>of the Thyroid gland                                     | Nothing but steady improvement. Can transact the ordinary business of life, write cheques, letters etc.   |   |
| 1   | Almost immediately             | No abscesses with<br>fresh unsterilised<br>juice.   | 1000013 000.  | B. M. J., ii.,<br>1892, pp. 613<br>and 894. |
| proved  |                                | Weakness and pro-<br>fuse perspirations.  | The weakness followed larger doses than had been ordered. Gland partly cooked.  | Ib. ii., 1892, p. 940.                      |
| prove-  | In about a week                | Diarrhœa, headache<br>and increased tem-<br>perature after a few<br>days, when taken<br>twice a day                     |   | •   |
|   | In about a week                | None  | A very marked case<br>and improvement<br>rapid  | *   |
| im-<br>ent  | Gradually from<br>the first    | Some local swelling inclining to abscess at seat of puncture, sometimes through keeping injection too long before using | Soon after first confinement began to be fat and fail in health; has had two children who died, aged 16 mos. and 12 mos.; suckled both up to their death.   | *   |
| d im-<br>ent  | In about 3 weeks               | None.   | Slight deterioration after 3 months' intermission.  | B.M.J., ii., '92,<br>p. 1428.               |
| prove-  | In about 5 weeks               | Giddiness and head-<br>ache, weakness and<br>pain in arms.  |   | Do.   |
| d im-   |                                | Faintness, nausea, &c.  |   | Do.   |
| prove-  |                                | Once local inflamma-<br>tion. Once abscess.   |   | Do.   |

## TABLE OF RESULTS OF THE

\* Under " Where Recorded

|     |                    |         |                           | _   | -  |  |
|-----|--------------------|---------|---------------------------|---|--|--|
| No. | DOCTOR'S NAME      | E       | Sex &<br>age of<br>Patien | III                                       | Treated by   | Dose and Dur Treatme                                       |
| 54  | Hall, Dr B.        |         | F. 49                     | At least<br>2 years                       | Internal   | 10 minims daily months                                     |
|     |                    |         |                           | 2 years                                   |  | months   |
|     |                    |         |                           |   | 1 1 1 1 1  |  |
|     |                    |         |                           |   |  |  |
| 55  | Handford, Dr       |         |                           |   | Do.  |  |
|     |                    |         | 77 10                     |   | The state of the s |  |
| 56  | Hardy, Dr C. M.    |         | F. 46                     | 10 years                                  | Hypodermic<br>& Powder.<br>Then partially  | week. 10 grai<br>each day, ⅓lobe in                        |
| 57  | Hawkyard, Mr A.    |         | F. 49                     | About a year                              | cooked glands<br>Hypodermic  | 20 minims first 4 and<br>tions, afterwar 10                |
|     |                    |         |                           |   | 1000   | nims, then 10 m and<br>October, 1892, to 18                |
|     |                    |         |                           | N. A. |  |  |
|     |                    |         |                           |   |  |  |
| -0  |                    |         | 25 00                     |   |  | 10   |
| 58  | Haynes, Dr Stanley |         | M. 80                     | 2 years                                   | Internal   | to June, 1898, si h<br>nims twice a day                    |
| 50  |                    |         | T2 11                     |   | Thursday,  | West to Oak 1000   |
| 59  | Henry, Dr J. P.    |         | F. 44                     | 13 or 14<br>years                         | Hypodermic   | May to Oct., 1892 At twice a week for the 30 minims twice. |
|     |                    | 1639    |                           |   |  | for rest of time   |
|     | The public of      | Paris I |                           |   | 400  |  |
| 60  | Hern, Dr           |         |                           |   | Do.  | 1  |
|     |                    |         |                           |   |  |  |
| 61  | Holman, Dr C.      |         | F. 44                     | 7 years                                   | Internal   | 1 gland every 2nc s, b<br>‡ gland                          |
| 62  | Howitz, Prof.      |         | F. 42                     | 7 years                                   | Do.  | 2 glands daily, la every 2nd day                           |
|     |                    |         |                           | -   | 100  |  |

case sent to B. and M.

| lt                     | Improvement commenced                               | Unpleasant Effects<br>and<br>Cause of them  | Further Remarks  | Where<br>Recorded                        |
|------------------------|---|---|--|--|
| re-                    | Within a fort-<br>night she began<br>to feel better | None  | She was nearly bald and she now has a thick crop of hair coming. She could not walk upstairs without feeling faint, she can now walk a couple of miles without fatigue. The "flabbiness" and waxy colour have gone | B.M.J., ii., '92,                        |
|                        |   |   |  | p. 1434.                                 |
| roved                  | Within 10 days                                      | None  |  |  |
| ot the<br>sign<br>June | Marked improvement after third injection            | The last injection<br>caused a very large<br>abscess. Probable<br>cause an improperly<br>sterilized needle  | The case was remarkable for the very rapid onset of symptoms; was a typical case of myxædema at commencement of treatment. Twelve months before, there was not the slightest sign of myxædema present              | *  |
| roved;<br>under<br>it  | About ten days                                      | None  | Case imperfect hav-<br>ing been too short a<br>time under special<br>treatment? Myxœ-<br>dema being limited  | *  |
|                        | Immediately   | Epileptiform convulsion after 1st injection. Flushing, weakness and pain in back once or twice. Abscessonce Unpleasant symptoms probably due to too large doses or given too rapidly. | to right lower limb Patient is now in ex- cellent health and taking occasional doses of Thyroid to render cure per- manent   | B.M.J., April<br>8th, 1893               |
|                        | ******  | Once an epileptiform attack.  |  | Ib. ii., 1892, p. 452.                   |
| roved                  |   | Tumultuous action of heart; disturbed sleep.  | Disease in right kidney improved simultaneously.   | Ib. i., 1893, p. 114.                    |
| roved                  |   | Pain in chest, with quick weak pulse.   | Calves' glands partly cooked.  | Semaine Méd.,<br>8 Fév., 1898,<br>p. 59. |

#### TABLE OF RESULTS OF THE

\* Under " Where Recorded

| No.      | DOCTOR'S NAME  | Sex &<br>age of<br>Patient | m   | Treated by                              | Dose and Dur.<br>Treatme   |
|----------|--|----------------------------|---|---|--|
| 63       | Hunter, Dr W.  | М. 96                      | Many<br>years; first<br>diagnosed<br>1888 | Hypodermic                              | 30 minims once<br>about 3 months<br>wards once a fo<br>other 2 month<br>May and Octobe   |
| 64       | Jackson, Dr H  | F. 42                      | 8 years                                   | Internal                                | One average size taken raw in the taken raw in the the week from 1 May 14th when for was given in the doses daily for then gradually twenty minims reduced to 10 minus |
|          |  |                            |   |   |  |
| 65       | Lubbock, Mr E. A.  | F. 40                      | 10 years                                  | Do.                                     | Extract equal twice weekly, to June 19th, 18   |
| 66       | Lundie, Dr R. A.   | F 58                       | 14 years                                  | Do.                                     | 5 minims daily at  |
| 67<br>68 | Lunn, Mr J. R.   | F. 42<br>F. 68             | years                                     | First Hypo-<br>dermic, then<br>Internal | 20 minims once a<br>commenced with<br>three times a we   |
| 69       | McKelvie, Dr R.  | F. 34                      | About 3 years                             | Hypodermic                              | 15 minims every then 25 minims of  |
|          |  |                            |   |   |  |
|          | maga-  |                            |   |   |  |
|          | A PARTY OF THE PAR | Town I                     |   |   | -  |
| 70       | Mackenzie, Dr. H. W. G.  | F. 30                      | 4 years                                   | Internal                                | Sometimes 2 thyr   |
|          |  | 1                          | 1   |   |  |

f case sent to B. and M.

| lt                        | Improvement<br>commenced   | Unpleasant Effects<br>and Cause of them  | Further Remarks   | Where<br>Recorded   |
|---------------------------|--|--|---|---|
| cure,<br>sign of<br>June, | Shewed an improvement almost immediately after first injection   | No unpleasant effects except formation of abscess at seat of injection when that was made into gluteal region. All other injections gave no trouble  | Once only being injected he looked pale and felt faint but only for a minute or two. Dr. Hunter believes this to be the second case of cure in a  | Paper read<br>before Med-<br>Chirurgical<br>Society of<br>Nottingham<br>(See plate<br>facing intro-<br>duction) |
| prove-                    | About 7 weeks<br>after, a consider-<br>able improve-<br>ment was mani-<br>fest in her<br>general appear-<br>ance | 8 weeks after commencing the treatment a great feebleness, languor and want of appetite came over her and she was obliged by the weakness to go to bed, this passed gradually off and with a Mixture of Nitro-hydrochloric her appetite returned. She has again resumed the drops but in 10 minim doses only | male  | *   |
| e re-                     | Immediately  | A little giddiness the<br>next morning fol-<br>lowing the taking<br>of the doses on the<br>first two occasions<br>only   | Patient feels quite<br>well and walked 8<br>miles on June 11th<br>without fatigue   | *   |
| proved                    |  | Abscesses & nausea<br>from subcutaneous<br>injections. Pain in<br>chest, arms, &c.<br>Breathlessness   |   | B. M. J., i.,<br>1893, p. 64  |
| im-                       | In a few weeks   | A feeling of weak-<br>ness and itchiness<br>of skin  | One woman was<br>quite deaf before<br>treatment   | *   |
| marke                     | In 6 weeks, when<br>menstruation re-<br>turned after 3<br>years stoppage   | None. Always injected slowly and kept syringe scrupulously clean   | Associated with the illness throughout was an intense neuralgia of thigh, worse at nights, which no treatment internal or external could relieve, and this was the last symptom to disappear. Menstruation recurred thrice; she is now pregnant; hair began to grow in three months |   |
| narked<br>for the         |  | Nausea, vomiting,<br>pains all over, quick<br>pulse  |   | Ib., ii 1892,<br>p. 940   |

### TABLE OF RESULTS OF THE

\* Under " Where Recorded"

|      |                                 |          |    |                      |   | The second of the second |   |
|------|---------------------------------|----------|----|----------------------|---|--------------------------|---|
| No.  | DOCTOR'S NAM                    | DE       | ag | x &<br>e of<br>tient |   | Treated by               | Dose and Dura<br>Treatmen                             |
| 71   | Mackenzie, Mr L.                |          | F. | 52                   | 3 or 4 years                                  | Hypodermic               | 12 minims once<br>latterly 24 minim<br>once a week    |
| 72   | Maule, Dr W.                    |          | F. | 45                   | 14 years                                      | Internal                 | Raw Thyroid giv<br>first three weel<br>powder         |
| 73   | Mendel, Dr                      |          | F. | 58                   | 11 years                                      | Hypodermic               | Daily injections—<br>later 1/5th thyroic              |
| 74   | Mitchell, Mr J. J. an<br>Mr. J. | d Craig, | M. | 50                   | 15 years                                      | Do.                      | 10 minims twice first mouth, the week, and after      |
|      |                                 |          | n. | ther<br>nd<br>ter    |   |                          | fortnight to the                                      |
| 75   | Do.                             |          | F. | 47                   | 7 years                                       | Do.                      | Do.   |
|      |                                 |          |    |                      |   |                          |   |
| 76 . | Murray, Dr G. R.                |          | F. | 46                   | 4 or 5 years                                  | Do.                      | 21 glands in 3 mon<br>25 minims fortnig               |
| 77   | Do.                             |          | F. | 52                   | 12 years                                      | Do.                      | 25 minims weekl;                                      |
| 78   | Do.                             |          | F. | 62                   | 6 or 7 years                                  | Do.                      | 25 minims weekly                                      |
| 79   | Do.                             |          | F. | 64                   | 5 years                                       | Do.                      | 12 to 25 minims we've                                 |
| 80   | Napier, Dr                      |          | F. | 54                   | 5 years                                       | Do.                      | ard gland, usual second day                           |
| 81   | Neilson, Dr H. J.               |          | M. |                      | 2½ years<br>consequent<br>on "cut<br>throat"— | Internal                 | Jan. 27th to Apr<br>minims on ever<br>Saturday and Su |
| 82   | O'Carroll, Dr J. F.             |          | F. | 1                    | suicidal<br>About 8<br>months<br>noticeably   | Hypodermic               | Two months  |
|      |                                 |          |    |                      |   |                          |   |
|      |                                 | 779      |    |                      | 1   | Service .                |   |
|      |                                 |          |    |                      | 11 11 11 11                                   |                          |   |
|      |                                 |          |    |                      |   |                          |   |

case sent to B. and M.

| 1t                                     | Improvement<br>Commenced   | Unpleasant Effects<br>and<br>Cause of them   | Further remarks   | Where recorded                                      |
|--|--|--|---|---|
| after<br>rest<br>ruary<br>re-<br>some- | Patientimproved<br>visibly after 1st<br>injection  | Had to give up hypodermic injection owing to 3 severe abscesses forming at points of puncture partly from not  |   | *   |
| satis-<br>Still<br>of                  | At once  | resting arm<br>None  | Patient improved<br>with preparation of<br>iron in addition to<br>Thyroid Powder  | ٠   |
| proved                                 |  | None   |   | Deut. Med.<br>Wochensch,<br>Jan. 12, 1898,<br>p. 25 |
| im-<br>int in<br>ance<br>ypical<br>as  | At end of first week in each case, but much more so in the case of the sister. The sister is practically cured but relapses somewhat unless she has an injection periodically. Brother very much improved. | During first month of treatment there was rapid wasting (the flesh lost being subsequently regained to a great extent) so much so that the female patient took to her bed and thought she was going to die. Attacks of dyspnæa and severe headache lasting 24 hours were also noticed after some of the earlier injections | When the treatment had been carried on three weeks, the glands were given raw instead of extract but caused such depression, headache and dyspnæa that the use of them had to be given up                           | P. 20 \$  |
| roved                                  |  | Once abscess   | Relapse after five<br>weeks interval  | 1891, p. 797,<br>and ii., 1892,                     |
|  |  | vulsions &c  |   | 400   |
|  |  |  | Died from cardiac<br>failure<br>Ditto   | Do.   |
| proved                                 |  | Abscesses, headache, and febricula   |   | Glasgow M.J.<br>Sept., 1892,                        |
| Im-<br>nt                              | Six weeks after<br>first treatment<br>with Thyroid<br>Extract.   | Giddiness only   | Cut in throat injured thyroid gland   | p. 161  |
| nent                                   |  | None   | The case was a very slightly marked one and there was corresponding difficulty in determining improvement. It was mainly noticed in diminution in the girth of the arms, and in re-establishment of normal sweating | •   |

## TABLE OF RESULTS OF TH

\* Under " Where Recorded"

| No. | DOCTOR'S NAME      | Sex &<br>age of<br>Patient | m                     | Treated by   | Dose and Durs<br>Treatme   |
|-----|--------------------|----------------------------|-----------------------|--|--|
| 83  | Oldacres, Mr C. E. | M. 62                      | 9 years               | 1st Hypoder-<br>mic, then<br>Internal                          | 20 minims to 10 m<br>podermically, 2<br>internally.  |
| 84  | Pasteur, Dr        | F. 55                      | ? 17 years            | Internal   | ½ gland twice a weat<br>1 gland daily  |
| 85  | Pollard, Dr.       | F. 87                      | 2 or 3<br>years       | Hypodermic<br>for eight<br>months then<br>Internal             | 20 minims of ext<br>times a week   |
| 86  | Robin, Dr V.       | 7                          | Congenital            | Hypodermic   |  |
| 87  | Robinson, Mr E. L. | F.                         | 7 or 8<br>years       | Hypodermic<br>and Internal                                     | 10 to 20 minims  |
| 88  | Rogers, Dr Bertram | F. 62                      | From 6 to<br>10 years | Internal   | December 5th, 18<br>21st, 1893 minims<br>alternate day, lat<br>xx twice a week                         |
| 89  | Shaw, Dr Claye     | F. 33                      | 15 months             | Hypodermic   | 30 minims, three 1   |
| 90" | Sheppard, Dr W. T  | F. 50<br>F. 30             | 7-8 years<br>4 years  | Hypodermic<br>and Internal                                     | 20 minims twice about 2 months   |
| 91  | Sloan, Dr S.       | F. 49                      | 16 years              | Internal   | 10 minims daily for weeks, graduall to 5 minims ever   |
| 92  | Do.                | F. 48                      | 15 years              | Do.  | From Dec. 1892, s. 5 minims 3 times dually reduced 2 days. From Ja                                     |
| 98  | Smith, Dr R.       | F. 54                      | Over 8<br>years       | Hypodermic<br>and Internal<br>commencing<br>with<br>Hypodermic | end of May February 24th, 18 21st, 1898, 25 mir weekly from Fe Sept. Two or or lobe twice a wee months |

f case sent to B and M.

| lt   | Improvement<br>Commenced   | Unpleasant Effects<br>and<br>Cause of them   | Further Remarks   | Where<br>recorded   |
|--|--|--|---|---|
| efore<br>at, 17<br>after<br>12 st.<br>to go<br>again<br>work | After first injection  | Great pain from injections but no abscess. After the earlier injections the dose had to be reduced to 10 minims, as they made him feel so ill and prostrate. | The fresher the Ex-<br>tract the less pain<br>there seemed to be  | Northampton<br>Med. Meet-<br>ing. Case<br>exhibited by<br>Dr Jones          |
| im-  |  | Toxic symptoms, ac-<br>companied by ex-<br>treme feebleness of<br>heart  |   | Lancet, i. 1893<br>p. 248   |
| rent-<br>yroid<br>still<br>ice a<br>pre-                     | Immediately  | 2 serious abscesses. Twice alarming sense of fainting, oppression of breathing (during hypodermic treatment only)  |   | #   |
| roved  |  | ment only)   | Grafting of thyroid<br>performed subse-<br>quently  | Lyon. Med.,<br>Aug. 7, 1892,<br>also in B.M.J<br>"Epit." ii.,<br>1892 p. 43 |
| ally   | After second injection   | Giddiness. A sense of suffocation  | The first improvement shewn was a brighter look, a return of hearing which had been nearly lost, and a feeling of warmth. The case peeled all     | 1892, p. 43   |
| reco-<br>pati-<br>not<br>well<br>ars                         | Increase of sensa-<br>tion of warmth<br>in 5 days. Im-<br>provement in<br>speech in a week<br>or 10 days. Skin<br>moister early.<br>Within a fortnight | Faintness but never syncope, due probably to too frequent doses.  Only some local ab-  | over Elevation of temperature to normal after a month. Pulse much accelerated at first but is now stronger than it has ever been Recovered simul- | *   |
| isfac-<br>treat-<br>ased                                     | After second or  | scesses at entrance<br>of point of syringe<br>In one case syringing<br>was followed by an<br>abscess.  | taneously from<br>melancholia   | B. M. J., ii.,<br>1892, p. 451  |
| гу   | 10 to 14 days  | At first only, weak-<br>ness and "stretch-<br>ing" pains.  | The Gout attacks<br>are not so severe<br>since  |   |
|  | In 2 weeks or so   | At first only, weak-<br>ness and "stretch-<br>ing" pains. Giddi-<br>ness if medicine old   | Patient says she is<br>in splendid health   | •   |
| ment<br>and<br>l, es-<br>the                                 | 14 days after 1st<br>dose  | None after Hypo. In-<br>jec: Cyanosis and<br>faintness with pro-<br>fuse sweating after<br>Thyroid by mouth.<br>(Excessive dose)                             |   | *   |

#### TABLE OF RESULTS OF TH

\* Under "Where Recorded"

| No.        | DOCTOR'S NAME                          | Sex<br>age<br>Pati | of       | m                            | Treated by   | Dose and Dura<br>Treatmen  |
|------------|--|--------------------|----------|------------------------------|--|--|
| 95         | Smith. Dr R.                           | F.                 | 64       | 11 years                     | Hypodermic<br>and Internal<br>commencing<br>with<br>Hypodermic | Hypodermic 30 mir<br>a week till July 4<br>lobe Sheep's Thyr<br>from Nov. 9th til<br>time (June) |
| 96         | Smith, Mr T. and Chadwick.<br>Dr C. M. | F.                 | 78       | 10 years                     | Internal   | 5—20 minims thre<br>day, first grad<br>creased and then d  |
| 97         | Soulby, Dr C. E.                       | M.                 | 40       | 18 months                    | Do.  | May and June 2   |
| 98         | Squance, Dr T. Coke                    | F.                 | 18       | 6 months                     | Hypodermic   | daily for 4 weeks<br>April, May, and<br>10 minims daily  |
| 99         | Do.                                    | F.                 | 17       | 3 months                     | Internal   | April to June, 1896  |
| 100        | Do.                                    | F.                 | 25       | 18 months                    | Do.  | powder daily<br>April, May, and J  |
| 101        | Stewart, Dr J.                         | F.                 | 49       | 11 years                     | Hypodermic   | 10 grains powder<br>15 minims bi-week  |
| 102        |  | F.                 | 45       | 6 years                      | Hypodermic<br>& Internal                                       | 20 to 30 minims by<br>10 minims by mo<br>at first, then twic                                     |
| 103        | Tonking, Dr. J. H.                     | F.                 | 50       | Several<br>years             | Hypodermic   | 20 minims twice<br>from April 14th   |
| 104        | Wichmann, Dr                           | F.                 | 35       | 2 years                      | Do.  | thyroid twice we   |
| 105        | Wilkinson, Dr J. B.                    | F.                 | 58       | 2 or 3<br>years              | Internal   | 10 minims per d<br>April 22nd, 1898;   |
| 106        | Copley, Mr W. H.                       | F.                 | 50       | 12 years                     | Hypodermic   | tinuing<br>60 minims   |
| 107        | Day, Mr T. Montagu                     | F.                 | 62       | 6 or 7                       | and Internal<br>Internal                                       | 10 minims daily  |
| 108        | J Dr. H                                | F.                 | 74       | years<br>3 or 4              | Do.  | 10 minims twice a  |
| 109<br>110 | Do.<br>Kirk, Dr R.                     |                    | 44<br>33 | years<br>5 years<br>10 years | Do.<br>Do.   | Do   |
| 111        | Do                                     | F.                 | 34       | 3 or 4                       | Do.  |  |
| 112<br>113 | Do.<br>Owen, Mr. J. Lewis              |                    | 71<br>46 | years<br>20 years<br>2 years | Do.<br>Hypodermic  | 25 minims  |

case sent to B. and M.

| ilt  | Improvement commenced                           | Unpleasant Effects<br>and<br>Cause of them  | Further Remarks  | Where<br>Recorded                                   |
|--|---|---|--|---|
| ement<br>and                                 | 42 days after com-<br>mencement of<br>treatment | Thickening of sub-<br>cutaneous tissue<br>after Hypodermic  | Great improvement<br>in growth of hair, in<br>speech and move-<br>ments generally,<br>also mental im-                                  | *   |
| Symp-<br>st pro-<br>all                      | On second day                                   | Inflammation about<br>the large toe nail,<br>followed by acute<br>Dermatitis of lower<br>half of foot and<br>threatening of gan-<br>grene | provement. No change as to delusions. No real alteration in temperature readings. Time too short to say how far improvement permanent. | *   |
| ig .   | In two weeks                                    | None  |  | *   |
| ly   | Fortnight                                       | Hypodermic injection, followed by rigor and cellulitis, seemed to be due to idiosyncrasy  |  | *   |
| ıg   | Do.   | None  |  | *   |
|  | Do.   | None  |  | *   |
| nprov-                                       | After 3rd injection                             | Injections in them-<br>selves caused no<br>bad effect   |  | *   |
| and  | Almost immediately                              | Formation of abscess<br>by hypodermic in-<br>jection & headache<br>after continuance  |  | #   |
| nent;<br>naller;<br>g;men-<br>prove-<br>hair | After 2nd injection                             | by both methods Tendency to faint same day as injec- tion, with profuse sweating  | Before injections, had<br>frequent comatose<br>attacks, with con-<br>tracted pupils. No<br>albumen                                     | *   |
| proved                                       |   | Once headache for a few hours   | Said, after 9 injections, not to be recognisable as a case of Myxædema   | Deut. Med.<br>Wochensch,<br>Jan. 12, 1893,<br>p. 26 |
| lly  | First week                                      | None  | ·····  | *   |
| od   | In 6 weeks                                      | Some  |  | *   |
| lief   | At once   | Slight  | Not a cure   |   |
|  | End of a week                                   | None  |  |   |
| t t  | 10 days<br>Almost im-<br>mediately              | Do.<br>Do.  |  | *   |
|  | Do.   | Do.   |  |   |
| ment   | After first week                                | Do.<br>Some   |  | Sheffield M.J.<br>July, 1898, p.<br>815             |

#### CRETINISM, TRI

\* Under " Where recorded"

| No. | DOCTOR'S NAME          | Sex &<br>Age of<br>Patient | m   | Treated by              | Dose and Dur of Treatme                                       |
|-----|------------------------|----------------------------|---|-------------------------|---|
|     | Carmichael, Dr. Edward | F. 6                       | Congenital  | Hypodermic and feeding  | Ten minims twice then weekly of Then half a lob lobes weekly. |
|     | Gilorist, Mr T.        | F. 26                      | Sporadic since an attack of whooping cough in Infancy, according to statement of mother |                         | Equal to one gland<br>for three months                        |
|     | K , Dr H. E            | F. 26                      | Congenital  | Internal                | 5 minims to 20 m<br>diem; June, 1896, s                       |
|     | Paterson, Dr A. Gordon |                            | 18 months   | Sporadic                | treatment<br>Cretinism treated                                |
|     | S , Mr P               | F. 15                      | Congenital  | Internal                | One drachm week then fortnightly                              |
|     | Aikman, Dr J.          | Has tr                     | eated one   | case. Articul           | ation said to be imp d  |
|     | Dunlop, Dr G. Melville | Hasus                      | ed the extr   | act in two case         | s of Cretinism, and   |
|     | Kirk, Dr R.            | Has us                     | ed the extr   | act in two case         | s of Cretinism with   |
|     | Maule, Dr W.           | Hasus                      | ed the extr   | act in three cas        | es of Cretinism, and  |
|     |                        |                            |   | EXOPHT                  | HALMIC GO   |
|     | Plummer, Dr S. W.      | F. 22                      | 2½ years  | Hypodermic and internal | Ten to fifteen min other night                                |
|     | Do                     | F. 24                      | 4 years   | Internal                |   |
|     |                        |                            |   | -                       |   |
|     |                        |                            |   |                         |   |

Note.—Prof. Grainger Stewart, in the July number of *The Practitioner*, amon the risks of treating Myxædema by the Thyroid Gland, writes, "Among these; the occurrence of local abscesses, which has led most practitioners to abandon hypodermic administration of the remedy." In the May number of the *Edinbur Medical Journal*, Dr Lundie publishes a table of 46 cases of the Thyroid Treatme of Myxædema of which 32 are treated by hypodermic injection and 14 by tinternal administration of glands and extracts. Of the 32 who were injectiour only are reported to have suffered from abscesses, and we are not the cause of them. In compiling the above table we asked our correspondent there were unpleasant symptoms, could they suggest a reason for them, at the result is that in the very few cases in which abscesses have occurred we have the probable cause "an imperfectly sterilized syringe," "partly from 1 resting arm," "when injected into gluteal region but not otherwise," and

#### YROID EXTRACT

Case sent to B. and M.

| Take a second   |   |  | 111 111 111 111 111  |                                 |
|---|---|--|--|---------------------------------|
|   | Improvement commenced   | Unpleasant effects<br>and<br>cause of them   | Further remarks  | Where<br>recorded               |
|   | After the first few injections  | At first child restless,<br>irritable and sleep-<br>less. Dose reduced                             |  | Lancet,vol. i.,<br>1898, p. 580 |
| Im-<br>t in<br>At-<br>nade<br>ating<br>The<br>lema<br>body<br>men<br>ed | After about one week  | Severe headache at first   | The girl became more inclined to play, and did not care to sleep so much as formerly Beyond the reduction in the solid cedema the most marked improvement was in intellect | *                               |
| onth  | About 10 days   | Slight chilliness after first few doses  |  |                                 |
| s. De   | cided improvement   | after one month's use  | of extract. Condition st   | ill improving                   |
|   | At once   | None   |  | *                               |
|   |   |  |  | . *                             |
| int of  | improvement, but  | by no means as great as  | in the Myxædemic cas   | es                              |
|   | -   |  |  |                                 |
| nt in   | one   |  |  |                                 |
| ED  | BY THYRO  | ID EXTRACT   |  |                                 |
| and<br>Ex-<br>tos<br>sed.<br>both<br>arge)<br>imin-<br>ener-            | Improvement<br>could be detect-<br>ed after about<br>first week of<br>treatment | Once, slight indura-<br>tion at seat of a<br>hypodermic injec-<br>tion: otherwise no<br>bad effect | I think the improve-<br>ment noted was<br>sufficient to justify<br>extended trials of<br>Thyroid Extract in<br>Exophthalmic Goitre   |                                 |
| roved   |   |  |  | -                               |

th. We have compiled the above table in order to bring together, in a form lable for reference, as large a number of cases as possible, and we hope the ord may possess some value at the present time. The table is extremely ourable to the employment of thyroid extract both by hypodermic injection by internal administration, but it includes every case returned to us and if result had been exactly opposite, we should have published it just the same. hough in our capacity as manufacturing chemists (as Brady & Martin) we made every animal extract which has been suggested for the treatment disease, we have no desire to make one of them unless they are proved to sess some value, as we have no ambition and no personal aims to gratify and those of being useful, in such capacity as we occupy, in aiding the physian and surgeon in the relief and cure of human suffering.—Eds.

Subcutaneous Injection of Normal Nerve Substance in Epilepsy and Neurasthenia.-Babes Deutsch. Med. Woch., July 28th, 1892, records the results of this method of treatment in a large number of patients. Normal brain and spinal cord were made into an emulsion with broth in the proportion of 1 gramme of the nerve tissue to 5 grammes of broth. Of this 4 to 5 grammes were injected in the abdomen or flank five to six times a week in epileptics, and four to five times a week in neurasthenias. A large number of epileptics were cured, and others greatly improved. Good results were also obtained in melancholia, neurasthenia, and cases of slow heart action. A case of sleeplessness, in which all known narcotics, even in large doses, had failed, was cured after three injections. A patient with cephalalgia of over a year's duration was remarkably improved after seven injections. Syncopal attacks and a paralytic condition in another patient disappeared after 16 injections. Sciatica of a month's standing was cured by three injections.—B. M. J. Epit., Jan. 21, 1893, No. 60.

Thyroid Extract (Fluid), for Hypodermic use.— Forty-five minims are equal to one lobe of the thyroid gland

of the sheep.

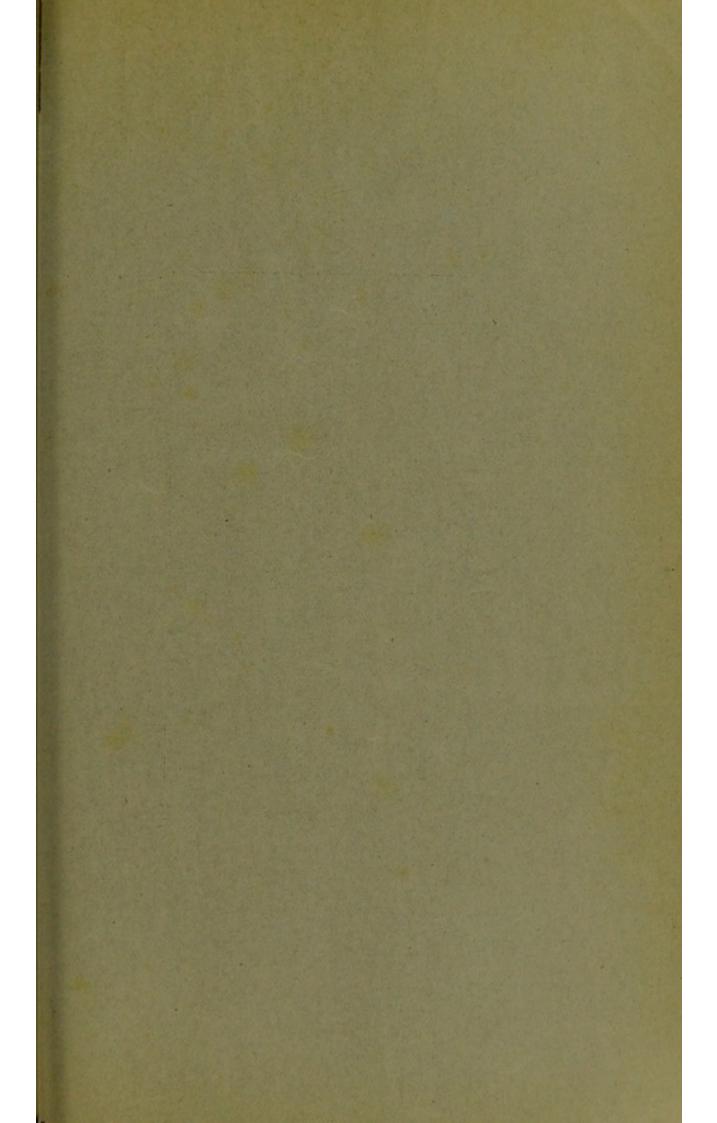
Dose—Fifteen minims injected slowly into some part where the skin is loose and not exposed to pressure, as between the shoulder blades. This dose may be given twice a week, and if done with proper antiseptic precautions, as regards the skin and hypodermic syringe, unpleasant results rarely follow. According to Dr Murray (Lancet, October 22, 1892) the advantages of the hypodermic method are considerable. "It is easily carried out, and only requires to be repeated twice a week at first, and afterwards an injection once a week or once a fortnight will maintain the patient in the improved condition. The main object is to introduce the secretion of the gland into the circulation of the patient slowly and in as natural a condition as possible, and this end is obtained by the hypodermic method."

Thyroid Extract (Fluid), for Internal Administration. The same strength as the fluid for hypodermic use, and only differing from it in not containing the small quantity of carbolic acid used to preserve the hypodermic solution.

Dose—Five to twenty minims daily in any bland vehicle.

Thyroid Extract Powder, (B. & M.)—This powder is prepared by carefully expressing the juice of the thyroid glands with antiseptic precautions, diluting it with a neutral substance and carefully drying on sterilized glass plates. One gramme of the powder is equal to one lobe of the thyroid gland of a sheep.

Dose—Three to ten grains daily.









# TABLE(S) RUN INTO GUTTER

