

*Appendix of Tables to Dr. Beadle's Article on Myxædema,*  
p. 509.

TABLE Ia.—Cases of Myxœdema Treated by the Subcutaneous Injection of Thyroid Extract.

No.	Observer.	Reference.	Sex.	Age.	Duration of Myxœdema.	Length of Treatment when Reported.	Dosage and Method of Administration.	Result.	Ill-Effects.
1*	Dr. George Murray, of Newcastle.	Brit. Med. Journ., Oct. 10, 1891.	F.	46	4 to 5 years.	3 months: April 13—July 13.	At first mxxv. twice a week, afterwards less frequently. Three weeks' interval between last two injections. Same as above. mxxv. once a fortnight since July, 1891.	Improved with disappearance of most symptoms.	
2*	Ditto.	Brit. Med. Journ., Aug. 27, 1892. See Present Paper.	F.	52	12 years.	13 months: April 13, 1891—June 4, 1892. Over 2 years.	mxxv. once a week for 4 months, then once a fortnight for 2 months, then once a week again last 2 months.	Improvement, but symptoms returned when no injection given for five weeks, and again when the injections were discontinued. Improvement (photograph) shows remarkable change in appearance.	Abscess only after 13 months of treatment.
	Ditto.	Ditto.	F.	62	6 to 7 years.	?	mxxv. weekly.	Remains well.	Occasional malaise after injection. Once there was loss of consciousness and tonic spasm for a few minutes; at another flushing, nausea and lumbar pain. Once an indurated swelling formed.
4	Ditto.	Ditto.	F.	64	5 years.	3 months.	mxf. to mxxv. weekly.	"Very marked improvement."	Died from cardiac failure following bronchitis.
5	Ditto.	Lancet, Oct. 22, 1892.	M.	44	3 years.	6 weeks.	3iii.—2 whole thyroid glands during that time, in 13 injections.	"Considerable improvement took place," with scarcely any signs left. "All the symptoms had practically disappeared." "At the end of August the improvement was so great that no one seeing him could tell that he had had myxœdema."	Died from cardiac failure. Local inflammation after fifth injection, with erythematous rash, followed by an abscess.

6*	Dr. Wallace Beatty, of Dublin.	Lancet, May 13, 1893. Brit. Med. Journ., March 12, 1892. Dublin Journ. Med. Sc., May, 1893.	F.	45	7 years.	<p>Glycerine extract by mouth. Since Nov., 1892, has taken regularly 3i. each week by mouth in daily doses of ℥x. for 6 months.</p> <p>January, 1893. May, 1893 (8 months).</p> <p>2 months: Dec. 11, 1891—Feb. 13, 1892. May—Aug., 1892.</p> <p>℥xxv. at intervals of 4 to 10 days, combined with massage. A few subcutaneous injections at long intervals, as myxodema showed signs of returning.</p>	<p>Kept in good health.</p> <p>"Quite cured."</p> <p>"At present time in same excellent state of health."</p> <p>"Now she is practically cured."</p> <p>Injections were followed immediately by disappearance of the symptoms, and in October, 1892, "she was quite free from the symptoms of myxodema," but malignant disease was discovered.</p>
7*	Ditto.	Dublin Journ. Med. Sc., May, 1893. Lancet, May 27, 1893.	F.	60	6 years.	<p>Nine injections given during the month, extract of 3 glands in all (℥120).</p>	<p>Injections once followed by epileptiform attack, thrice by agonizing pain in lumbar region, and once general oedema of face and feeling of weakness. Died (Feb. 28, 1893) from malignant disease of omentum.</p> <p>Pain in head and aching in limbs. Twice the injections were followed by suppuration, lastly phlegmonous erysipelas of the arm.</p> <p>Febrile attack with slight rigor, and formation of an abscess.</p> <p>Nil.</p>
8	Dr. Ernest Carter, of County Asylum, Wittingham, Lancashire.	Brit. Med. Journ., April 16, 1892.	F.	43	1 year.	<p>24 months: Oct. 21, 1891—Feb. 7, 1892.</p> <p>4 months: Dec. 1891—April 30, 1892.</p>	<p>"Improvement in bodily and mental condition," especially the former.</p> <p>"Improvement was most marked."</p>
9*	Dr. Arthur Davies, of London.	Brit. Med. Journ., April 30, 1892. (Shown at Clinical Soc., April 22, 1892.) Brit. Med. Journ., Aug. 27, 1892. Letter, Aug. 10, 1893.	M.	43	12 years.	<p>Hypodermic injections, ℥xxv., twice a week.</p> <p>The same, but with 5 weeks' intermission.</p>	<p>Great improvement.</p> <p>"Regained both mental and bodily activity."</p> <p>Maintained by occasional doses.</p>

TABLE Ia (Continued).—Cases of Myxedema Treated by the Subcutaneous Injection of Thyroid Extract.

No.	Observer.	Reference.	Sex.	Age.	Duration of Myxedema.	Length of Treatment when Reported.	Dosage and Method of Administration.	Result.	Ill Effects.
10*	Dr. Arthur Davies, of London.	Brit. Med. Journ., Aug. 27, 1892.	F.	43	8 years.	16 months.	Injections for 6 weeks, after an interval of 2 months was put on thyroid tablets.	Improved at first, and after a relapse when no treatment again improved.	Nil.
11*	Ditto.	Letter, Aug. 10, 1893. Letter, Aug. 10, 1893.	F.	46	7 years.	12 months (Aug., 1893).	Injections for 3 months, interval of 6 weeks, then put on tablets.	Greatly improved after 3 months, and again after taking tablets.	Nil.
12	Dr. Clave Shaw, of Banstead Aty.	Brit. Med. Journ., Aug. 27, 1892.	F.	33	4 years.	3 months: April 9—June 1, 1892.	Injection about every other day; amount not stated.	"Discharged; quite well in all respects."	Twice abscesses formed; at another pain and swelling.
13	Dr. Hearn, of Dublin.	Brit. Med. Journ., Aug. 27, 1892.	F.	?	?	?		"Marked beneficial results."	Lividly of skin, tremors, unconsciousness for ½ hour.
14	Mr. Hurry Fenwick, of London.	Brit. Med. Journ., Sept. 10, 1892. Brit. Med. Journ. and Lancet, Oct. 22, 1892. (Shown at Patho. Society, Oct. 18, 1892.)	F.	?			Very few injection spread over a long period.	Improvement.	No abscesses or elevation of temperature.
15	Ditto.	Ditto.	F.	?			Ditto.	Ditto.	Ditto.
16	Dr. Hadden, of London.	Brit. Med. Journ., Oct. 22, 1892.	F.	?				Improved.	
17	Ditto.	Ditto.	F.	?				Ditto.	
18	MM. Bouchard and Charrib, of Paris.	Lancet, Oct. 1, 1892. B. M. J. (Paris), Oct. 22, 1892. B. M. J. (Paris), Nov. 12, 1892.	F.	25		3 months.		"Practically cured."	Intense headache and pains in limbs and chest after injections, and treatment had to be stopped at times.
19	Ditto.	Ditto.	F.	"Older" than last case.		?		Ditto.	Ditto.

20	Dr. Alex. Napier, of Glasgow.	F.	54	5 years.	2 months: May 12, 1892—July 10, 1892.	mxx. every 2 or 3 days as a rule. Sixteen injections given in all.	Much improved, as seen in photograph. "Remarkable improvement, which is maintained now, three months after cessation of treatment."	An abscess once formed.
21	Mr. Cecil F. Beadles, of Colney Hatch Asylum.	F.	50	8 years.	3 months: May 10, 1892—Aug. 24, 1892. 15 months, Aug. 6, 1893.	mxx. three times a week for last two months. Seventeen injections in all. Thyroid powders internally for six months. Fourteen injections of mxx. each, usually every other day. mxx. twice a week; 30 injections in all; since Sept. had one weekly injection. Now having tabloids.	Marked improvement both in mental and bodily condition. Improved condition maintained.	Slight nausea occasionally; attack of rheumatic fever; at another time swelling and pain in shoulder.
22	Ditto.	F.	51	"early."	5 weeks: Aug. 24—Oct. 4, 1892.	mxx. each, usually every other day.	Slight improvement bodily.	Nil.
23	Dr. A. Barron, of Liverpool.	F.	64	8 years.	4 months: May, 1892—Sept., 1892.	mxx. twice a week; 30 injections in all; since Sept. had one weekly injection. Now having tabloids.	"Considers herself to be perfectly well." "Returned to her normal condition."	Nil.
24	Ditto.	F.	55	?	7 weeks, Sept., 1892.	13 injections of mxx.	Improvement most marked.	
25	Prof. Mendel, of Berlin.	F.	68	4 years.	?	Daily injections.	"Much better" physically and mentally, although could still be recognized as myxedema.	

TABLE Ia (Continued).—Cases of Myxœdema Treated by the Subcutaneous Injection of Thyroid Extract.

No.	Observer.	Reference.	Sex.	Age.	Duration of Myxœdema.	Length of Treatment when Reported.	Dosage and Method of Administration.	Result.	Ill-Effects.
26	Dr. W. Hunter, of Nottingham.	Brit. Med. Journ., Dec. 31, 1892 (Nottingham Medi.-Chl. Soc., Dec. 14, 1892). Lancet, Dec. 24, 1892.	?			6 months: Jan. 9, 1892—June 1, 1892. 3 months: April 5—July 20.	xxxv. weekly. xxxv. weekly.	Adopted with complete success. "Great improvement." Ditto.	No unpleasant symptoms except slight faintness. Giddiness and headache; weakness in arms.
27	Dr. G. E. Hale, of St. George's Hospital.	Brit. Med. Journ., Dec. 31, 1883.	F.	48	15 years.	5 months: March 16—Aug. 16.	xxxv. weekly, later one every three weeks.	"Marked improvement." Ditto.	Fainting and nausea, weakness in arms, fainting fits, pain and swelling; abscess.
28	Ditto.	Ditto.	F.	46	2 years.	3 months: March 16—June 4.	xxxv. weekly.	"Slight improvement." Ditto.	Pain in back and general fatigue for 24 hours after injections.
29	Ditto.	Ditto.	F.	54	7 years.	3 months: March 16—June 4.	xxxv. weekly.	"Recovery." "She looked healthy."	No bad results.
30	Ditto.	Ditto.	F.	27	1½ years.	2 months: Sept. 24—Nov. 16, 1892.	Half a gland in 3 injections fortnightly.	"After 4 injections there was considerable improvement. At last-named date the disease could not be recognized." "Greatly improved."	
31	Dr. Chopinet, of Paris.	Soc. de Biol., iv., 1892.	F.	23	2 years.	1 month: Aug. 16, 1892—Sept. 17, 1892.	xxxv. three times a week.		
32	Dr. J. Corkhill, of Birkdale.	Brit. Med. Journ., Jan. 7, 1883.	F.	33	5 months: sudden onset and enlarged thyroid.	6 or 8 weeks.	Nine injections of thyroid extract.		
33	Wichmann, of Berlin.	Brit. Med. Journ., Feb. 4, 1893. Deut. Med. Wochenschr., Jan. 12, 1893.	F.	35	2 years.				
34	Dr. A. James, of Edinburgh.	Brit. Med. Journ., Feb. 18, 1893. (Edin., Stirling, etc., Br. M. A., Feb. 3, 1893).	M.	50	?				

36	Dr. J. P. Henry, of Lewisham.	Brit. Med. Journ., April 6, 1893.	F.	44	14 years.	5 months — May 14 — Oct.	Bi-weekly injections of $\frac{1}{4}$ xxx. from May 14 to Aug. From Aug. to Oct. had 2 injections in every fortnight. Since fed with raw thyroids.	Vastly improved; oedema greatly disappeared, and face looks natural and at least 10 years younger. Followed by less marked results. "Great benefit."	After first injection had an epileptic fit. After 14th injection a small abscess formed. During 19th injection had faintness, with great flushing of upper part of body, and pains in back.
36	Dr. R. H. B. Nicholson, of Hull.	Brit. Med. Journ., April 6, 1893. (East York and North Lincoln Branch, B.M.A., March 34.)	F.	25			Injection of $\frac{1}{4}$ a lobe twice a week.		
37*	Dr. J. L. Owen (Dr. Hunt), of Sheffield.	Brit. Med. Journ., April 15, 1893. Lancet, April 15, 1893. (Shef. Med. Chir. Soc. March 23). Shef. Med. Journ., July, 1893.	F.	46	2 years.	6 months: Sept. 1892 — Mar., 1893.	Injection of extract, and feeding with raw thyroid glands.	Marked improvement.	On 2 occasions alarming symptoms of oedema of face occurred during the injection.
38*	Dr. Little, of Dublin.	Lancet, May 27, 1893. (Royal Academy of Medicine in Ireland, April 17, 1893).	F.	30	4 years.	11 months. 8 months.	Now (Aug.) taking one lobe of the gland once a week. At first hypodermic injections for two months, and subsequently by mouth. Juice of one thyroid in week when used hypodermically and two when eaten.	"The patient has been relieved of all symptoms." "Most satisfactory."	Nil.
39	Dr. J. K. Barton, of Mentone.	Dublin Journ. Med. Sc., May, 1893.	F.	59	3 years.	2 months: Jan. 26 — March 30, 1893.	First month had injections every other day (xxx.), then every third day.	"Felt much better."	Transitory feeling of faintness, nausea, or burning.
40*	Dr. W. Dobbin, of Banbridge, Ireland.	Brit. Med. Journ., Feb. 4, 1893. See Present Paper.	F.	40	4—5 years.	13 months.	For six months hypodermic injections twice a week. Afterwards thyroid juice or 'labiods' internally twice a week.	"Considers herself well."	An abscess once.

TABLE 1b.—Cases of Myxoedema Treated by the Ingestion of Thyroid Preparations.

o.	Observer.	Reference.	Sex.	Age.	Duration of Myxoedema.	Length of Treatment when Reported.	Dose and Method of Administration.	Result.	III.—Effects.
41*	Dr. Hector Mackenzie, Royal Free Hospital, London.	Brit. Med. Journ., Oct. 29, 1892. Lancet, Oct. 15, 1892. Lancet, Oct. 29, 1892.	F.	40	4 years.	1 month: July 27, 1892—Aug. 17, 1892.	16 thyroid glands given by mouth at irregular intervals twice at a meal; and in addition once two drachms of extract given by mouth.	"A very marked change for the better." "The existence of the disease would probably not suggest itself to anyone seeing her now for the first time." Oct. 29, 1892: "Looks and feels very well." Jan., 1893: "Cured of Myxoedema." "After a fortnight she had markedly improved, and had now for six months been practically well." "In very good health, with no sign of myxoedema whatever."	Nausea, vomiting, and aching pains at first and administration: vomiting on five occasions.
		Lancet, Jan. 21, 1893. Brit. Med. Journ. and Lancet, Mar. 1, 1893. (Shown at Chir. Soc., Feb. 24.) See present paper.				Aug.—Oct.	One thyroid twice a week.		
						13 months: Aug. 5, 1892.	Expressed juice of a whole thyroid gland once a week, or three White's powders a week.		
						4 months: June 9, 1892—Sept. 25, 1892.	At first a glycerine extract of the gland, made from half a thyroid a day twice a week; afterwards half thyroid minced and traced twice a week, with the extract once a week.	"She considered herself well."	Became extremely weak for a time.
42	Dr. E. L. Fox, of Plymouth.	Brit. Med. Journ., Oct. 29, 1892.	F	49		Nov. 9, 1892.	Extract once a fortnight.	Remains in improved condition.	



43	Dr. H. Handford, of Nottingham.	F.	56	5 years.	10 months: Oct., 1882—Aug. 10, 1883.	Fresh glycerine extract prepared in the hospital, & a thyroid every other morning for the first week, afterwards twice a week. Since first 9 weeks has taken a labiodivico weekly. Extract given by mouth, in addition to arsenic and iron internally.	"Great improvement, so much that patient is not very willing to continue treatment—considering herself well."	None except a little depression while taking the extract every other day.
44	Dr. T. McCall Ander-son, of Glasgow.	F.	30	10 years	2 months.	One thyroid gland at a time—5 in all.	"The mental and bodily habitude has entirely disappeared, and the speech and intellectual faculties are perfect." Photo.	Headache and pains in back and limbs; nausea, weakness, vertigo, and palpitation on stooping.
45	Dr. E. Creswell Barber, of Brighton.	M.	53	7 years.	1 month: Nov. 12, 1892—Dec. 3, 1893.	Injectious in larger doses than Murray's.	Improvement rapid and satisfactory (then stopped, and after 5 weeks patient relapsed.)	Pains and abscesses after injections; once a severe attack of heart failure.
46	Dr. Robert A. Lundie, of Edinburgh.	F.	51	14 years.	6 months: July, 1892—Dec., 1892. 18 months, with intermissions.	Extract by mouth re- presenting 1-6th part of sheep's thyroid twice weekly. 1-18th oz. of sheep's thyroid daily.	"No one would suspect that she had suffered from severe myxoedema." Photo. Kept in good health.	No bad symptoms.
47	Dr. C. Holman, of London.	F.	44	Over 7 years.	3 months: Oct. 12, 1892—Jan. 21, 1893.	One whole gland (2 lobes) every other day. After first fortnight ½ lobe every other day. Later took ¼ a lobe once a fortnight. Thyroid extract in powder—1-8th of en- tire thyroid of sheep every day in tepid beef tea.	In 9 days "all symptoms better." Now "there is nothing to be seen to indicate that she has ever had myxoedema."	Tumultuous action of heart and sleepless-ness, and slight faintness.
48	Dr. Arthur Davies, of London.	F.	47	6 years.	7 months.		"All had greatly bene- fited under treat- ment." "Rapidly improved."	Nil.

TABLE 1b (Continued).—Cases of Myxoedema Treated by the Ingestion of Thyroid Preparations.

No.	Observer.	Reference.	S.-x.	Age.	Duration of Myxoedema.	Length of Treatment when Reported.	Dosage and Method of Administration.	Result.	III-Effects.
49*	Dr. Arthur Davies.	Lancet and Brit. Med. Journ., Feb. 4, 1888. (Clinical Society, Jan. 27, 1893.) Ditto. Letter, Aug. 10, '98. See present paper. Lancet and B. M. J., Feb. 4, 1893.	F.	59	10 years.	7 months.	Three months' treatment by thyroid tabloids.	"No trace of myxoedema."	Nil.
50*	Ditto.		M.	45	6 years.	7 months.	Thyroid extract in powder—1/8th of an ounce thyroid of sheep every day in tepid beef tea.	"All trace of myxoedema was gone in 3 months."	Nil.
51*	Ditto.		F.	54	4 years.	4 months.	Thyroid tabloids.	Improved markedly.	Nil.
52	Dr. Pasteur, of London.	(Clinical Society, Jan. 27, 1893.) Ditto.	F.	55	17 years.		Raw gland twice a week at first & a gland and later a whole one daily.	"Much benefited." "Markedly improved."	Toxic symptoms developed after 5 glands with feebleness of heart, so dose reduced.
53	Dr. Calvert, of London.	B. M. J., Feb. 4, 1893; also B. M. J., April 15, 1893.	F.	?	12 years.		Fried thyroid gland & a thyroid three times a week.	"Vastly benefited." "Getting better rapidly."	
54	Prof. Howitz, of Copenhagen.	Semaine Méd., Feb. 5, 1893. Dent. Med. Woch., March 16, 1893.	F.	42		March 22, 1892—July 6, 1892. Over 5 months.	Feeding with thyroid of calves; 4 lobes of lightly cooked calves thyroid daily.	"The result was excellent." Great improvement in the course of 3 weeks. Several relapses. "Used all been quickly cured by the same treatment."	Slight steno-cardiac attacks which necessitated its temporary suspension.
55	Dr. Byron Bramwell, of Edinburgh.	Brit. Med. Journ. and Lancet, Feb. 25, 1893. (Edin. Med. Chir. Soc. Feb. 16, 1893.) Edin. Med. Journ., May, 1893. Edin. Med. Journ., May, 1893.	F.	?	5 years.	3 months: Nov. 6, 1892—Feb. 1893.	1/2 sheep's thyroid internally or alternate days, afterwards reduced in amount; given raw chopped, and put in water-pyrexia.	"In four days a great change for the better began to take place." "Practically cured." "Sufficiently well to be a house-keeper."	Deterioration of gastro-intestinal system; pains and tendency to faint.
56	Ditto.		F.	33	3 years.	2 months: Dec. 26, 1892—Feb. 1893.	1/2 with 1/8th of thyroid (& lobe) daily afterwards with 1/4 and later with 1/2 thyroid daily. Chopped and in rice-paper.	"Remaining her normal condition." "Looked 15 years younger."	Pains, palpitation, and debility.

57	Dr. A. Bruce and Prof. Fraser, of Edinburgh.	Ditto.	F.	?	?	30 grs. of thyroid extract twice weekly during the first month. ?	Greatly improved within a week.	Headache and occasionally pains in limbs.
58	Dr. Foulis, of Edinburgh.	Ditto.	F.	?	?	Single dose of $\frac{1}{2}$ of a sheep's thyroid.	"Had done very well."	Died within 24 hours from exhaustion and diarrhoea.
59	Ditto.	Ditto.	F.	?	Advanced.	$\frac{1}{2}$ of sheep's thyroid by mouth twice a week.	"No change."	Slight headache after third dose.
60	Dr. John Thomson, of Edinburgh.	Edin. Med. Journ., May, 1893. (Edin. Med. Soc., Feby 16, 1893.)	F.	51	Over 10 years.	$\frac{1}{2}$ thyroid twice a week.		On one occasion had severe angina-like pains, on another fainted.
61	Dr. G. H. Melville Dunlop, of Edinburgh.	Ditto.	F.	46	5 years.	$\frac{1}{12}$ of thyroid extract by mouth three times a week. Dose reduced to $\frac{1}{12}$ twice weekly. Reduced to $\frac{1}{15}$ twice a week. Now having $\frac{1}{15}$ once a week. $\frac{1}{15}$ once a fortnight.	"Swelling almost entirely gone." Improvement noted in 10 days. "Says she feels quite well and perfectly cured."	Died from cardiac failure. Aching pains in limbs, neck, and chest. Irregular action of heart.
62	Ditto.	Ditto.	F.	?	12 years.	$\frac{1}{12}$ of thyroid extract twice weekly. Dose reduced to $\frac{1}{12}$ twice a week. Now given every alternate week.	Feb. 1st, 1893: "Continues quite well." In a week "the excitement had quite gone," and improvement in body began. Nov. 12. Jan. 14, 1893. Feb. 1.	Severe aching pains in limbs and chest and neck. "Many of her friends scarcely recognised her."

TABLE Ib (Continued).—Cases of Myxodema Treated by the Ingestion of Thyroid Preparations.

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63	Dr. G. H. Melville Dunlop, of Edinburgh.	Edin. Med. Journ., May, 1893. (Edin. Med. and Chir. Soc., Feb. 16, 1893.)	F.	43	3 years.	3 months, Nov. 18, 1892—Feb. 14, 1893.	At first mxx. of extract administered thrice weekly, afterwards dose reduced to mxx. twice a week, then to mxx. once a week.	Improvement noticed after a week. "Mind is much clearer." "All the symptoms yielded to treatment in a couple of months." for better noticed in a week.	
44	Ditto.	Ditto.	F.	56	9 years.	1½ months: Dec. 31, 1892—Feb. 12, 1893.	mxx. of thyroïd extract thrice weekly.	Change for better improvement. so marked that a friend "failed to recognize her."	Weakness.
45	Ditto.	Ditto.	F.	48	20 years.	1 month: Jan. 21, 1893—Feb. 14, 1893.	mxx. of extract twice weekly.	"Marked difference." and "her spirits are markedly improved."	Nausea and loss of appetite; aching pains.
46	Ditto.	Ditto.	M.	63	18 years.	Jan. 23—Feb. 11, 1893.	1-6th of a thyroïd gland administered twice a week.	Slight improvement noted in 10 days' time.	Nausea and restlessness.
47	Dr. H. M. Church, of Edinburgh.	Ditto.	F.	60	"6 months."	?	Thyroïd gland.	"I'm proved very much."	Severe prostration for 48 hours following an overdose. Swelling of parotid and submammary glands.
68	Dr. Sealker, of Dundee.	Ditto.	?	?			?	"With success."	
69	Ditto.	Ditto.	F.	48	13 months.	10 months Oct. 22, 1892—Aug. 10, 1893.	22 thyroids in sand-wiches in two weeks. After an interval of one month extract given—½ lobe twice a week. Heavily pills (½ lobe) three times a week.	"Immense improvement. Perfectly free from all 'local' symptoms." "Can walk five miles without difficulty."	Great cardiac embolism and weak pulse from excessive dose, which recovered with use of cardiac tonics.
70	Dr. Watson Williams, of Bristol.	Brit. Med. Journ., Feb. 18, 1893. (Bath and Bristol Br. B.M.A., Jan. 25, 1893.) Private Letter, Aug. 16, 1893.	F.	48	13 months.	10 months Oct. 22, 1892—Aug. 10, 1893.	22 thyroids in sand-wiches in two weeks. After an interval of one month extract given—½ lobe twice a week. Heavily pills (½ lobe) three times a week.	"Immense improvement. Perfectly free from all 'local' symptoms." "Can walk five miles without difficulty."	Great cardiac embolism and weak pulse from excessive dose, which recovered with use of cardiac tonics.

71	Dr. Gvinger Stewart, of Edinburgh.	Edin. Med. Journ., May, 1883. The Practitioner, July, 1883.	F.	38	9 years.	2 months: Feb. 15—April 24.	30 grs. of uncooked sheep's thyroid every third day in wafer-paper; afterwards increased to 50 grs., and then to one drachm.	"Most satisfactory." "She describes herself as feeling in all respects infinitely better."	Various discomforts felt as oppression in chest, itching and burning sensations, weakness and soreness. In addition had four serious attacks of heart failure with severe dyspnoea.
72	Dr. Monies (referred to by Dr. Bramwell).	Edin. Med. Journ., May, 1883.	F	40		1 month	Thyroid feeding. Powdered thyroid extract (thyroid gland powders).	"Improved remarkably."	
73	Dr. Hadden, of London.	Brit. Med. Journ., March 4, 1883. Lancet, ditto. (Clinical Soc., Feb. 24.)	F.			3 months	Fresh gland daily (3 to 10 gr.) by the mouth of Burroughs and Wellcome's extract, or an homemade extract of B. and W.'s tabloids.	"She improved very rapidly, and in about a month she was practically well."	Nil.
74*	Dr. Robert Kirk, of Glasgow.	Lancet, March 11, 1883.	F.	42	6 years.	4 months	Ditto. Extract and feeding.	Ditto. Marked beneficial result.	Nil.
75*	Ditto.	Ditto.	F.	72	26 years.	2 months: Nov. 12, 1882—Jan. 12, 1883.	Ditto. Feeding with thyroid gland of sheep; 1 an undrained thyroid gland the first thing every morning with her food up to Jan. 12.	Ditto. "A week later said she had done for years."	During the last week some feeling of discomfort about neck and shoulders.
76	Dr. E. Carmichael, of Edinburgh.	Lancet, March 18, 1883.	F	52	10 years.	3 months.	Feeding with glycerine extract, or after cooked, with salt and bouillon added. Later the fresh glands finely minced, first of sheep and then of calf.	Feb. 5: "Feels quite well." Discharged well at end of 3 months.	Some unfavourable symptoms appeared with large doses.
77	Ditto.	Ditto.	F						
78	Mr. B. J. D. Shapland, of Exmouth.	Brit. Med. Journ., April 6, 1883.	F.						
79	Dr. Lasche.	Brit. Med. Journ. (Epitome), April 18, 1883. Dent. Med. Week., March 16, 1883.	M.	49					

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No.	Observer.	Reference.	Sex.	Age.	Duration of Myxœdema.	Length of Treatment when Reported.	Dosage and Method of Administration.	Result.	Ill-Effects.
80	Mr. E. H. B. Nicholson, of Hull.	Brit. Med. Journ., April 5, 1893. (East York and North Lincoln Br. E.M.A., March 24, 1893.) Ditto.	F.	56	16 years.	8 weeks.	1 lobe of sheep's thyroid for 3 days running, then 1 lobe every week minced or in an infusion.	At end of 8 weeks seemed quite well.	No ill-effects.
81	Dr. H. W. Pigeon, of Hull.		F.	64	3 years.	8 weeks	$\frac{1}{2}$ raw minced thyroid lobe was given for 7 days. After 14 days, raw $\frac{1}{2}$ lobe given once or twice a week according to pulse rate.	Marked effect on the œdema. "At end of 8 weeks the patient was well."	But caused great muscular and cardiac weakness.
82	Dr. J. H. Benson, of Dublin.	Brit. Med. Journ., April 15, 1893. Lancet, May 27, 1893. (R. Academy of Medicine in Ireland, April 17, 1893.) Dublin Journ. Med. Sc., May, 1893.	F.	50	8 years.	3 months: Jan. 17, 1893—April 17, 1893.	Extract of thyroid extract, 2 doses daily between meals. Increased to six times daily. Recently 2 single daily doses of 1viii. in water.	First 3 weeks without apparent effect. Followed by marked improvement, and now quite changed.	
83	Dr. Cocking, of Sheffield.	Brit. Med. Journ., April 15, 1893. Lancet, ditto. (Shef. Med. Chir. Soc., March 23.) Shef. Med. Journ., July, 1893.	F.	68	Well marked.	2 months.	Thyroid extract by mouth.	Very considerably improved.	
84*	Mr. J. F. Woods, of Hoxton House Asylum, London.	Brit. Med. Journ., May 6, 1893. (Shown at Huxterian Soc., April 12, 1893.) See present paper.	F.	32	15 months.	$\frac{1}{4}$ months: Jan. 20, 1892—June 5, 1893.  6 months: Aug. 3, 1893.	At first hypodermic injections of extract twice a week; afterwards powder by the mouth (1-6th of grain). More recently a "thyroid mixture."	"Began to improve in the third day." "Lost most of physical signs of myxœdema, and gradually bright and talkative."	

85*	Dr. Hingston Fox, of London.	F.	42	1-2 years.	April 12, 1893.	Crude sheep's thyroid glands, one weekly, eaten at two days' interval. 11 glands in all.	"Apparently cured." "Mentally the change is also great."	Nil.
86	Dr. F. J. Smith, of London.	F.	59	3 years.		Cooked thyroid glands.	"Much improved."	After a meal of 10 thyroids (taken accidentally) there was nausea, rapid pulse and acute dermatitis of hands, with subsequent peeling of entire skin of hands.
87	Dr. Sandby, of Birmingham.	F.	57		4 months, Nov. 30, 1892.	Administration of thyroid glands. At first feeding with half a lamb's thyroid daily (16 half glands between Nov. 30 and Dec 31)	"No manifest improvement."	
88*	Mr. C. J. B. Johnson, of Birmingham.	F.	49	3 years.	March 24, 1893.	Brady and Martin's thyroid extract given hypodermically. Thyroid glands, one lobe daily chopped up and made into sandwiches.	"The patient had lost all the characters of myxedema, and might have been shown as an example of Grave's disease."	Great complaints of pains.
89*	Dr. Lawrie, of Weymouth.	F.	46		7 weeks.	Raw thyroid, commencing with $\frac{1}{4}$ lobe. Now a $\frac{1}{2}$ of lobe.	"Distinct improvement on the third day." Now "felt a new woman."	Headaches (relieved by nitro-glycerine).
90	Ditto.	F.	60	4 years.	2 months: Dec. 10, 1892-Feb. 7, 1893.	Thyroid gland taken as an article of food.	"Improved wonderfully."	
91*	Mr. A. Maude, of Westerham.	F.	60		8 months: Aug. 5, 1893.	Ditto Raw sheep's thyroids given pounded once a week for 2 months. After interval of another two months took tablets daily for 10 days.	Ditto. "Mental state much improved. Skin warm and moist."	Fainting; collapsed after taking 2 thyroids. Headache, faintness, and general discomfort.

See present paper.

TABLE Ib (Continued).—Cases of Myxedema Treated by the Ingestion of Thyroid Preparations.

No.	Observer.	Reference.	Sex.	Age.	Duration of Myxedema.	Length of Treatment when Reported.	Dosage and Method of Administration.	Result.	Ill-Effects.
92*	Mr. F. C. W. Hounsell, of Chudleigh.	Brit. Med. Journ., May 6, 1893. (South Western Branch B. M. A., April 13, 1893.)	F.	65	2 years.	1½ month: June—Aug. 5, 1893.	Half sheep's thyroid twice a week, served on toast at lunch. 10 administrations in all.	"Most satisfactory: all symptoms completely disappeared."	Some trivial aching pains in limbs simulating the pains of influenza, which soon wore off. Some nausea.
93*	Dr. Wilkin Stabb, of Torquay.	Ditto. See present paper.	F.	23	3 years.	7½ months: Dec. 20, 1892—Aug. 5, 1893.	Thyroid feeding, at first one lobe twice a week, minced, and with port wine. Now takes powders = 1-3rd gland once a week.	"Striking character." "Seems now to be a healthy person."	Increased lassitude at first.
94	Dr. Hooper May, of London.	Brit. Med. Journ., May 27, 1893. (Shown at Metropolitan Co.'s Br. E. M. A., May 17.) Present paper.	F.	26	"Early."	11 weeks.	Thyroid extract and tablets.	"Remarkable improvement in all her symptoms."	
95	Mr. Cecil F. Beadles (H. G. Shaw), of Colney Hatch Asylum.	Ditto.	F.	45	6 years.	6 weeks: Oct.—Sept., 1892.	Raw glands for six weeks on 8 different occasions, at intervals of one or two days.	Slight improvement in mind and body.	Headache and giddiness after early powders; violent pains in abdomen and loss of consciousness after last three.
96	Mr. Cecil F. Beadles (F. Bryan).	Ditto.	M.	33	6 years.	6 months: Feb. 25. Aug., 1893.	Thyroid powders representing the one-sixth part of sheep's thyroid every other day, then every fourth day. More recently 5 grains once or twice a week.	Great improvement.	Weakness at first. Vomiting with high temp. once.



97	Dr. H. C. Marr, of Woodilee Asylum, Lanes.	Glas. Med. Journ., Aug., 1893.	F.	51	9 years.	4 months: Feb. 18, 1893—July, 1893.	Quarter of sheep's gland, and sheep's extract the glycerine whole thyroid 3i. thrice daily.	"Gradually improved under treatment both mentally and bodily."	Severe headache; muscular pains over body; inability to get excited on 4 occasions.
98	Mr. Edgar Duke of St. Leonards-on-Sea.	Birmingham Med. Review, Aug., 1893.	F.	42	1½ years.	3 months: Feb. 1893—June 1, 1893.	Powders representing 1-act of gland given every other day, and then daily; 42 in all.	"Mentally active and physically much more so than formerly. There is marked general improvement."	
99	Dr. J. Putnam, of Boston, U.S.A.	American Journ. Med. Sc., Aug., 1893.	F.	48	13 years.	10 months: June 1, 1892—March, 1893.	For first five months bi-weekly injections of a glycerine extract of sheep's thyroid. Then for 2 months thyroids by mouth, 6 or 8 lozes a week. Since Jan. used powders, capsules or pills.	"Slight improvement by an end of one week. In course of six weeks the improvement attracted the attention of everyone. Now she is still anemic, but as regards any distinct myxœdema she is practically well."	Langnor; nausea; thumping in head; dizziness after both injections and feeding. Itching of skin recently.
100	Ditto.	Ditto.	F.	55	2 years.	Feb. 15, 1893—	Thyroid powders, 15 grs. every second day, which is equivalent of one lobe of sheep's thyroid.	"Not only the myxœdema, but also the anemia has for the most part disappeared."	

\* See foot note on page 637.

TABLE II.—Cases of Sporadic Cretinism Treated by Means of the Thyroid Gland.

No.	Observer.	Reference.	Sex.	Age.	Treatment Adopted.	Result.
1	Dr. John Lockhart Gibson, of Brisbane.	Brit. Med. Journ., Nov. 12, 1892, and Jan. 14, 1893. (Intercolonial Medical Congress, Australia, Sept. 26, 1892.)	M.	6 yrs.	Grafting of thyroid of lamb in mammary region. July 20, 1891. One year after first operation, grafting of thyroid of lamb intra-peritoneal, May 20, 1892.	Six months after "very marked and steady improvement." Relapsed in 1892. "Fairly intelligent looking baby boy." "Cured by mycetozema and lessened his cretinism."
2	Dr. A. Heck, of Edinburgh.	Edin. Med. Journ., May, 1893. Brit. Med. Journ., Feb. 25, 1893. (Edin. Med. Chir. Soc., Feb. 16, 1893.)	M.	?	Implantation of thyroid on three occasions, by Mr. Caird.	Greatly improved.
3	Dr. V. Robin, of Lyons.	Brit. Med. Journ. (Epitome), Sept. 10, 1892. Lyon. Med., Aug. 7, 1892.	?	7 yrs.	Injections of fresh thyroid juice daily. Supplemented by grafting.	Improvement was immediate and great. Operation itself successful.
4	Dr. William Robinson, of Darlington.	Brit. Med. Journ., Jan. 7, 1893. Private Letter, August 10, 1893.	F.	10½ yrs.	Weekly hypodermic injections of thyroid extract, beginning with 6 and increasing to 30 minims, for two months. After which one thyroid gland was eaten weekly for several weeks.	"Slightly improved."
5	Dr. John Thompson (for Dr. W. H. Miller), of Edinburgh.	Edin. Med. Journ., May, 1893. Brit. Med. Journ. and Lancet, Feb. 25, 1893. (Edin. Med. Chir. Soc., Feb. 16, 1893.)	F.	4 yrs.	Feeding with thyroids since Dec. 24th, 1892. At first ¼ and afterwards ½ of gland twice a week.	"Wonderful success. After 3½ weeks was much better." "Much more intelligent."
6	Ditto	"	M.	16 yrs.	Quarter of sheep's thyroid twice a week, by mouth. Dec. 26, 1892, to April 12, 1893.	"His appearance has wonderfully improved." Mentally he is distinctly brighter.

7	Dr. E. Carmichael, of Edinburgh.	of Lancet, March 18, 1893.	F.	9 yrs.	<p>Hypodermic injections of thyroid extract between April and October. At first <math>\text{m} \times</math>. twice a week, later reduced to <math>\text{m} \times</math>. weekly and then every second week with occasional intervals of four weeks.</p> <p>Feeding with raw thyroids, October to March. Half-lobe per week at first, after two weeks 1 lobe per week. Later <math>1\frac{1}{2}</math> lobes given. Administered in cold beef tea. Total duration of treatment, 11 months.</p>	<p>"After the first few injections the appearance of the child had completely changed." "As week by week passed some mark of improvement was always seen." In Oct. the child began to walk.</p> <p>"Marked improvement in intelligence was seen."</p>
8	Dr. Vermehren, of Copenhagen.	Brit. Med. Journ. (Epitome), April 15, 1893. Deut. Med. Woch., March 16, 1893.	F.	29 yrs.	<p>Administration of thyroïdin (powder, obtained by precipitating a glycerine extract with alcohol).</p>	<p>With success.</p>
9	Ditto	"	?	?	<p>Under similar treatment.</p>	<p>Promises to give a similar result.</p>
10	Dr. Byrom Bramwell, of Edinburgh.	Edin. Med. Journ., May, 1893. (Edin. Med.-Chir. Soc., Feb. 16, 1893.)	F.	8½ yrs.	<p>Thyroid feeding for five weeks.</p>	<p>"The mental condition has become completely transformed." "Grown an inch during the five weeks."</p>
11	Mr. A. G. Francis, of Hull.	Brit. Med. Journ., April 8, 1893. (East York and North Lincoln Br. B.M. A., March, 24, 1893.) Private Letter, August 5, 1893.	F.	36 yrs.	<p>Under thyroid treatment.</p>	<p>"Is improving immensely" (Aug., 1893).</p>

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 1868. } Gairdner, W. T., M.D. Edin., F.R.S., Professor of Practice of Physic, 225,  
 1888. } St. Vincent St., Glasgow. (PRESIDENT, 1882.) (*Hon. Member.*)  
 1873. Garner, W. H., Esq., F.R.C.S.I., A.B.T.C.D., Medical Superintendent, Clonmel District Asylum.  
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 1867. Gasquet, J. R., M.B. Lond., St. George's Retreat, Burgess Hill, and 127, Eastern Road, Brighton.  
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 1871. Gelston, R. P., L.K. and Q.C.P.I., L.R.C.S.I., Medical Supt., District Asylum, Ennis, Ireland.

1892. Gemmel, James Francis, M.B. Glas., Assistant Medical Officer, County Asylum, Lancaster.
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 1863. Howden, James C., M.D. Edin., Medical Superintendent, Montrose Royal Lunatic Asylum, Sunnyside, Montrose.  
 1881. Hughes, C. H., M.D., St. Louis, Missouri, United States. (*Hon. Member.*)  
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 1865. Iles, Daniel, M.R.C.S. Eng., Resident Medical Officer, Fairford House Retreat, Gloucestershire.  
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 1893. Johnston, Gerald Herbert, L.R.C.S. and P. Edin., Assistant Medical Officer, North Riding Asylum, Clifton, Yorks.  
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 1866. Jones, Evan, M.R.C.S. Eng., Ty-mawr, Aberdare, Glamorganshire.  
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 1893. Jones, R., M.D. Lond., B.S., F.R.C.S., Medical Superintendent, London County Asylum, Claybury.  
 1879. Kay, Walter S., M.D., Medical Superintendent, South Yorkshire Asylum, Wadsley, near Sheffield.  
 1886. Keay, John, M.B., Med. Supt., Mavisbank, Polton, Midlothian.  
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 1880. Kornfeld, Dr. Herman, Grottkau, Silesia, Germany. (*Corresponding Member.*)  
 1889. Kowalewsky, Professor Paul, Kharkoff, Russia. (*Corresponding Member.*)  
 1881. Krafft-Ebing, R. v., M.D., Vienna. (*Hon. Member.*)  
 1866. Laehr, H., M.D., Schweizer Hof, bei Berlin, Editor of the "Zeitschrift für Psychiatrie." (*Hon. Member.*)  
 1892. Lawless, Dr. Geo. Robert, A.M.O., District Asylum, Sligo.  
 1870. Lawrence, A., M.D., County Asylum, Chester.  
 1890. Lawson, Robert, M.D., Deputy Commissioner in Lunacy, Edinburgh.  
 1883. Layton, Henry A., L.R.C.P. Edin., Cornwall County Asylum, Bodmin.  
 1883. Legge, R. J., M.D., Assist. Med. Officer, County Asylum, Derby.  
 1887. Lentz, Dr., Asile d'Aliénés, Tournai, Belgique. (*Hon. Member.*)  
 1858. Lewis, Henry, M.D. Brux., M.R.C.S. Eng., L.S.A., late Assistant Medical Officer, County Asylum, Chester; West Terrace, Folkestone, Kent.  
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 1859. Lindsay, James Murray, M.D. St. And., F.R.C.S. and F.R.C.P. Edin., Med. Supt., County Asylum, Mickleover, Derby. (*PRESIDENT, 1893.*)  
 1883. Lisle, S. Ernest de, L.K.Q.C.P., Three Counties Asylums, Stotfold, Baldock.  
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1878. Moody, James M., M.R.C.S. Eng., L.R.C.P. and L.M. Edin., Med. Supt., County Asylum, Cane Hill, Surrey.
1885. Moore, E. E., M.B. Dub., M.P.C., Medical Superintendent, District Asylum, Letterkenny, Ireland.
1891. Moore, George, J.P. M.D., M.R.C.S., Medical Superintendent, Jersey Lunatic Asylum.
1896. Morel, M. Jules, M.D., Hospice Guislain, Ghent. (*Corresponding Member.*)
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1878. Muirhead, Claud. M.D., F.R.C.P. Edin., 30, Charlotte Square, Edinburgh.
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1890. Nash, Vincent, L.K.Q.C.P., Assistant Medical Officer, Richmond District Asylum, Dublin.
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1873. Newington, H. Hayes, M.R.C.P. Edin., M.R.C.S. Eng., Ticehurst, Sussex. (*PRESIDENT, 1889.*)
1893. Newington, John, L.S.A., Tattlebury House, Goudhurst, Kent.
1881. Newth, A. H., M.D., Haywards Heath, Sussex.
1869. Nicolson, David, M.D. and C.M. Aber., late Med. Off., H.M. Convict Prison, Portsmouth. Med. Supt., State Asylum, Broadmoor, Wokingham, Berks.
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1888. Nolan, Michael J., L.K.Q.C.P.I., M.P.C., Assist. Med. Officer, Richmond Asylum, Dublin.
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1869. North, S. W., M.R.C.S. Eng., F.G.S., 84, Micklegate, York, Visiting Medical Officer, The Retreat, York.
1880. Norman, Conolly, F.R.C.P.I., Med. Supt., Richmond District Asylum, Dublin, Ireland. (*Hon. Secretary for Ireland.*) (*PRESIDENT-ELECT.*)
- Nugent, Sir John, M.B. Trin. Col., Dub., L.R.C.S. Ireland. (*Hon. Member.*)
1885. Oakshott, J. A., M.D., Assist. Med. Officer, District Asylum, Cork.
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1892. O'Mara, Dr., District Asylum, Limerick, Ireland.
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1886. O'Neill, E. D., L.K.Q.C.P., Med. Supt., The Asylum, Limerick.
1868. Orange, William, M.D. Heidelberg, F.R.C.P. Lond., C.B., 12, Lexham Gardens, London. (*PRESIDENT, 1883.*)
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1890. Oswald, Landel R., M.B., M.P.C., Senior Assistant Medical Officer, Glasgow Royal Asylum, Gartnavel.
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 1872. Patton, Alex., M.B., Resident Medical Superintendent, Farnham House, Finglas, Co. Dublin.  
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 1889. Peacock, Dr., L.R.C.P. and L.M. Edin., M.R.C.S. and L.S.A., Lond., Resident Medical Officer and Proprietor, Ashwood House, Kingswinford, Dudley, Staffordshire.  
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 1870. Peddie, Alexander, M.D. Edin., F.R.C.P. Edin., F.R.S. Edin., 15, Rutland Street, Edinburgh.  
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Alexander, Edward H.	English, Edgar.
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\* To whom the Gaskell Prize (1887) was awarded.

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MENTAL SCIENCE

*(Published by Authority of the Medico-Psychological Association  
of Great Britain and Ireland).*

EDITED BY

D. HACK TUKE, M.D.,  
GEO. H. SAVAGE, M.D.

"Nos vero intellectum longius a rebus non abstrahimus quam ut rerum imagines et  
radii (ut in sensu fit) coire possint."

FRANCIS BACON, *Proleg. Instaurat. Mag.*

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VOL. XXXIX.

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LONDON:  
J. AND A. CHURCHILL,  
NEW BURLINGTON STREET.

MDCCCXIII.

"In adopting our title of the *Journal of Mental Science*, published by authority of the *Medico-Psychological Association*, we profess that we cultivate in our pages mental science of a particular kind, namely, such mental science as appertains to medical men who are engaged in the treatment of the insane. But it has been objected that the term mental science is inapplicable, and that the terms, mental physiology, or mental pathology, or psychology, or psychiatry (a term much affected by our German brethren), would have been more correct and appropriate; and that, moreover, we do not deal in mental science, which is properly the sphere of the aspiring metaphysical intellect. If mental science is strictly synonymous with metaphysics, these objections are certainly valid, for although we do not eschew metaphysical discussion, the aim of this Journal is certainly bent upon more attainable objects than the pursuit of those recondite inquiries which have occupied the most ambitious intellects from the time of Plato to the present, with so much labour and so little result. But while we admit that metaphysics may be called one department of mental science, we maintain that mental physiology and mental pathology are also mental science under a different aspect. While metaphysics may be called speculative mental science, mental physiology and pathology, with their vast range of inquiry into insanity, education, crime, and all things which tend to preserve mental health, or to produce mental disease, are not less questions of mental science in its practical, that is, in its sociological point of view. If it were not unjust to high mathematics to compare it in any way with abstruse metaphysics, it would illustrate our meaning to say that our practical mental science would fairly bear the same relation to the mental science of the metaphysicians as applied mathematics bears to the pure science. In both instances the aim of the pure science is the attainment of abstract truth; its utility, however, frequently going no further than to serve as a gymnasium for the intellect. In both instances the mixed science aims at, and, to a certain extent, attains immediate practical results of the greatest utility to the welfare of mankind; we therefore maintain that our Journal is not inaptly called the *Journal of Mental Science*, although the science may only attempt to deal with sociological and medical inquiries, relating either to the preservation of the health of the mind or to the amelioration or cure of its diseases; and although not soaring to the height of abstruse metaphysics, we only aim at such metaphysical knowledge as may be available to our purposes, as the mechanic uses the formulæ of mathematics. This is our view of the kind of mental science which physicians engaged in the grave responsibility of caring for the mental health of their fellow men, may, in all modesty, pretend to cultivate; and while we cannot doubt that all additions to our certain knowledge in the speculative department of the science will be great gain, the necessities of duty and of danger must ever compel us to pursue that knowledge which is to be obtained in the practical departments of science, with the earnestness of real workmen. The captain of a ship would be none the worse for being well acquainted with the higher branches of astronomical science, but it is the practical part of that science as it is applicable to navigation which he is compelled to study."—*J. C. Bucknill, M.D., F.R.S.*

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Law of Lunacy in Great Britain and Ireland.

EDITED BY  
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*Vol. XL., No. CLXVIII. (New Series, No. 132) will be published on the 1st of January, 1894.*