

operations, *Trans. Amer. Gyn. Soc., Phil.*, '91, xiv., 76-88: *Ball*, quoted by *Vene*, p. 45: *Barwell*, Insanity after ovariectomy, *L.*, i., '85, 522: *Barwell*, Carbolic acid poisoning and mental disturbance, *Clin. Soc. Proc.*, xviii.: *Billroth*, quoted by *Vene*, p. 47: *Birch*, Acute mania after operation, *B. M. J.*, i., '85, 695: *Bryant*, Insanity after ovariectomy, *L.*, i., '85, 522: *Butler-Smythe*, Mania after ovariectomy, *J. Ment. Sc.*, '93, 389-97: Cataract, delirium after, *Med. P. and C.*, i., '90, 539: *Collins*, Insanity after hernia operation, *L.*, ii., '88, 1175: *Davidson*, Insanity after amputation, *L.*, i., '75, 73: *Debove*, quoted by *Luys*, p. 220: *Denis*, Thesis, Montpellier, '89: *Dent*, Traumatic insanity, *Tuke's Dictionary*, and *J. Ment. Sc., Ap.*, '89: *Desnos*, quoted by *Luys*, 221: *Doleris*, Delirium after gynecological operations, *Nouv. Arch. d' Obs. et de Gyn.*, Oct. 25th, '95: *Doran*, Insanity after ovariectomy, *L.*, i., '85, 522: *Dunn*, Insanity after cataract, *Med. P. and C.*, ii., '93, 153: *Dupuytren*, *Leçons orales de Clin. Chirurg.*, '39: *Edis*, Insanity after ovariectomy, *L.*, i., '85, 522: *Éillebrown*, *Amer. J. of Obst.*, Jan., '89: *Englisch*, *Med. P. and C.*, i., '96, 441: *Fauld*, *B. M. J.*, i., '95, 974: *Fleming*, *B. M. J.*, i., '95, 1145: *Frank-Hochwart*, *B. M. J.*, i., '90, 1509: *Gucci*, quoted by *Vene*, p. 13: *Hamilton*, *B. M. J.*, i., '73, 226: *Homans*, quoted by *Sears*: *Ill*, quoted by *Vene*, p. 10: Insanity after operation, *St. Bart.'s Reports and Med. P. and C.*, i., '94, 126: *Jones*, Insanity after ovariectomy, *L.*, i., '85, 639: *Keith*, Insanity after hysterectomy, *B. M. J.*, i., '89, 1284: *Kiernan*, *Med. P. and C.*, ii., '93, 68: *Krafft-Ebing*, quoted by *Sears*: *Le Dentu*, *Med. Moderne*, No. 491: *Luys*, *Revue Obst. et Gyn.*, No. 8, '93: *Lyll*, Insanity after operation for entropion, *Chinese Med. Miss. J.*, '89, iii., 92: *MacFarland*, Relation of operative gynecology to insanity, *Medical Review*, *St. Louis*, '93, xxvii., 443-5: *Massachusetts Eye and Ear Infirmary*, quoted by *Sears*: *Matison*, Influence of cocaine, quoted by *Vene*, p. 44: *Meredith*, Insanity after ovariectomy, *L.*, i., '85, 522: Neurosis after oophorectomy, *B. M. S.*, i., '93, 3: *Norman*, *B. M. J.*, i., '90, 1486: *Paget*, Mania after operation, *Illust. Med. J.*, i., '89, 154; *L.*, ii., '67, 220: *Reclus*, Influence of cocaine, quoted by *Vene*, p. 45: *Régis*, *B. M. S.*, ii., '93, 74: *Gaz. de Med. de Paris*, '93, viii., s. ii., 481-4, and *Manual of Mental Medicine*: *Rendu*, quoted by *Luys*, p. 221: *Richards*, Insanity after oophorectomy, *B. M. J.*, ii., '93, 995: *Rohé*, Mental disease after gynecological operations, *New York Med. J.*, lviii., 437-9: *Rossignol*, Influence of iodoform, quoted by *Vene*, p. 46: *Savage*, *B. M. J.*, ii., '87, 507, 1199: *Schnabel*, quoted by *Sears*: *Sears*, *Boston Med. and Surg. J.*, '93, 642; *Med. P. and C.*, ii., '93, 68: *Sheppard*, *Amer. J. of Mental Sc.*, '88: *Swain*, *B. M. J.*, ii., '94, 120: *Tait*, *Lawson*, *B. M. J.*, ii., 89, 497: *Tuke*, Insanity after gas, *B. M. J.*, ii., '87, 507: *Vene*, *Délires post-opératoires*, Paris, '91: *Weber*, 25 cases, Zurich, '91, F. Lohbauer: *Werth*, quoted by *Vene*, p. 39: *Wiglesworth*, Insanity after ether, *B. M. J.*, ii., '87, 507: *Wilson*, quoted by *Vene*, p. 54: *Wyeth*, Mental symptoms after suprapubic drainage, *Annals of Surgery*, *Phil.*, '93, xvii., 65-7.

On Mental Auto-infection. By H. KORNFIELD, M.D., Corresponding Member of the Medico-Psychological Association, Grottkau, Silesia.

In popular estimation there is no surer relief from itching than by scratching. The lower classes have no better remedy for anger than cursing. The more educated indulge in reproaches and complaints often referring to other causes than the immediate source of irritation. Experience, however, has taught us that, in only too many instances, the practices thus indulged in are positively deleterious; and that

abnormal feeling is further aggravated by giving way to these impulses of reflex action. Still, there is a momentary relief, and a feeling of comfort which in a great number of cases is all that can be expected by the physician.

Goldscheider believes that the effect of scratching is to suppress the sensation of tickling, by exciting a stronger sensation. I believe that he is wrong, however, in supposing that itching is not a sensation apart, but only a more lasting sensation of tickling. That is contrary to the common experience that every pleasant sensation is only pleasant in the first inception.

I do not here attempt an explanation of the psychological basis of these facts of common experience, but the analogy of similar observations in regard to mental and bodily conditions aids in the consideration of the origin of several forms of insanity. In a recent number of this Journal there is evidence of an increasing interest in the relations of bodily and mental conditions of disease; and, although there are many references to this subject in the standard works on Psychiatry, it may be useful to indicate what has been written and to communicate my recent conclusions.

Taking for granted that every psychical change calls up or implies a distinct bodily condition, it follows that abnormal psychical conditions are accompanied by anomalous somatic conditions. There is no need to prove that powerful passion may provoke derangement of the liver or the heart. I therefore attach importance to the (1) degree, to the (2) duration, to the (3) intervals of mental disturbance. The monologue of Hamlet sets forth the varying causes of anguish which may drive a man out of his mind. We may picture a case in which passion is replaced by bodily disease, or we may consider the effects of alcohol acting as a poison. The very word *intoxicated* explains my meaning. Jaundice may be caused by improper food or by anger—either acts in a toxic way. It is certain that a man may be inebriated by pride, or fall into insanity by brooding over real or imagined wrongs. The effect of the poison depends upon the three points above stated.

The most conspicuous effects of what I call mental auto-intoxication are found among the querulants. When the belief of having been wronged is fixed in the mind, every misfortune, every little trouble is brought into relation with the wrong and (even more markedly) with the wrongdoer. Now, when the link between bodily disease and abnormal

mentalisation is forged, the laws of association come into play and further connections and bonds are formed all tending in the same direction. Untoward circumstances requiring a hard struggle for a livelihood, disappointments without apparent cause, a certain disposition to sentimentality, some narrowness of mind unite in preventing a right estimation of the wrongs suffered and the proper relations of undoubted misfortunes. These factors are especially favoured by the occurrence of real bodily disease following mental disturbance—*e.g.*, when anger has caused disorder of the bowels, which has been aggravated by other causes unknown to the patient. Further, any periodicity of the bodily disturbance aggravates the false reasoning, and creates a true *circulus vitiosus*; and, should the evil combination continue, general mental enfeeblement ensues; and in the end the patient becomes completely unable to correct false reasoning.

BIBLIOGRAPHY.

I. DISEASES OF THE NERVOUS SYSTEM (INCLUDING GRAVES' DISEASES).—*Dieckenhoff, Fr.*, Chorea und Geistesstörung, Bonn, 1894: *A. Maude*, Mental Changes in Graves' Disease, Journ. of Ment. Sci., Jan., 1896: *Marie*, Contrib. à l'ét. de la mal. de Basedow, Thèse de Paris, 1893: *Rougier*, Essay sur la lypémanie et le Délire de persécution chez les tabétiques, 1882, Thèse de Lyon: *Wagner*, Neuralgie und Psychose: *Breton, A.*, Etat mental dans la chorée, Paris, 1893: *Finkenstein, L.*, Über psychische Störungen bei Chorea, Berlin, 1893: *Jacob, H.*, Über die Psychosen bei der Tabes dorsalis, Berlin, 1883: *Lehmann, Frz.*, casuist. Beiträge zur Kenntniss der im Verlaufe von Chorea auftretenden Psychosen, Berlin, 1887: *Neube, C. H.*, Geistesstörung bei Tabes dorsalis, Strassburg, 1885: *Schenck, P.*, Geisteskrankheit bei morbus Basedowii, Berlin, 1890: *Spiegel, D.*, Über die psychischen Störungen bei der disseminirten Sklerose, Berlin, 1891: *Von den Steinen, K.*, Über den Antheil der Psyche am Krankheitsbilde der Chorea, Strassburg, 1875; *cf.* Chorea: *Koppen*, Archiv für Psychiatrie, xx, 3, and Tetanie: *Frankl Hochwart*.

II. DISEASES OF THE HEART.—*Eckermann*, Herz u Gefässneurosen, Leipzig, 1894: *Benda*, Herz u Geistesstörung, 1881: *F. B. Laurent*, Contrib. à l'ét. du délire dans les mal du cœur, Thèse de Lyon, 1884: *Mickle*, Aortic aneurysms and insanity, Brain, 1889; *cf.* British Medical Journal, March, 1892: *Lancerotte*, De l'influence des mal du cœur sur les fac. intell. et mor. de l'homme, Ann. Méd. Psych., T. iv: *Bergmann, G. H.*, Mania metastatica vom Herzen ausgehend, Berlin, 1844: *Fauconneau, J.*, De la folie d'origine cardiaque ou des troubles psychiques consécutifs aux maladies du cœur, Paris, 1890: *Murraté, E.*, Des troubles mentaux dans l'asystolie, Paris, 1880: *Stender, W.*, de cordis morborum vi ad animum, Kiel, 1855: *Silbernick, K.*, Über Delirien bei Herzkranken, Würzburg, 1875: *Kiernan, Fr.*, Alienist, Chicago; ref. in Journ. of Ment. Sci., 1890.

III. DISEASE OF THE LUNGS (EXCLUDING PHTHISIS).—*Amelung und Bird*, Beiträge zur Lehre von den Geisteskrankheiten, I. Band, 1832: *Otto Snell*, Die Lungenschwindsucht bei Geistesstörung, Zeits. f. Psych. 44 B., 3 H., 188 S., 161: *v. Franque, J. B.*, Psych. Krankheiten und Lungenschwindsucht, Wiesbaden, 1845: *Morer, S.*, du délire dans les maladies aiguës du

poumon, Paris, 1872: *Philippis, J. G.*, de animi affectionibus in pectoris morbis propter vesaniam, Bonn, 1830.

IV. DISEASES OF THE DIGESTIVE ORGANS.—*Head, H.*, Mental States associated with Visceral Disease in the Sane, Journ. of Ment. Sci., Jan., 1896: *Percival, E.*, von verschied. krankhaften Zuständen der Unterleibseingeweide in einigen Arten des Irreseins, u. von deren Behandl. Aus. d. Engl., Leipzig, 1818: *Reddon, H.*, des troubles cérébraux consécutifs à la dothiéntérite, Paris, 1883.

V. DISEASES OF THE URINARY AND GENERATIVE ORGANS.—*Barop*, Psychosen in Folge chronischen Trippers, 1871: *Ripping*, Die Geistesstörungen der Schwangeren, Wüchner. und Säuglinge, Stuttgart, 1877: *Louis Mayer*, die Beziehung der krankhaften Zustände und Vorgänge an den Sexualorganen des Weibes zu Geistesstörungen, Berlin, 1869: *Merson*, Climacteric insan., W. Rid. As. Rep., ii. Vol.: *Esquirol*, Beobachtungen über das Irresein in Folge der Niederkunft, Leipzig, 1820: *Osiander, F. B.*, Die Entwicklungs-Krankheiten in den Blütenjahren des weiblichen Geschlechts, Band i., enthaltend die seltenen und wunderbaren Geistes- u. Leibeszufälle in diesem Alter Tüb., 1817: *Bruant, P.*, De la melancholie survenant à la ménopause, Paris, 1888: *Brühl, J.*, Über die psych. Störungen des Klimakteriums, Würzburg, 1887: *Dörschlag, O.*, Beitrag zu den Puerperalpsychosen, Berlin, 1886: *Dotzauer, M.*, Ueber Psychosen nach Erkrankung des weibl. Sexualorgane, Greifswalde, 1875: *F. Häussler*, Ueber die Beziehungen des Sexualsystems zur Psyche überhaupt und zum tretinismus im Besondern, Würzburg, 1826: *Florant, G. F.*, Des manifestations délirantes de l'urémie (folie Brightique), Paris, 1891. cf. also Discussion in the Med. Soc. of London, 13 Jan., 1876, about Puerperal Insanity: *Kowalewsky*, Geistesstörung bei Syphilis, Allg. Z. f. Psych., 50 Band, 1 u. 2 Heft: *Heubner, v. Ziemssen's* Handbuch, Bd. xi., t. 1; *Kumpf*, Die syphilitischen Erkrankungen des Nervensystems, 1887.

VI. CERTAIN GENERAL DISEASES, SUCH AS GOUT, DIABETES, AND MYXODEMA.—*C. Hubert Bond*, Some Points in the Relation of Diabetes to Insanity, Journ. of Ment. Sci., Jan., 1896: *Cohn*, Diabetes u. Psychose, Berlin, 1881: *Blanchet*, Über Störungen der Intelligenz bei Diabetikern, Journ. de Médecine de Paris, No. 6, 1887: *Cotard*, Diabetes and insanity, Arch. g. de Med., 1877; cf. *Madigan, Savage; Rayner*, Gouty insanity: *Lyon, M.*, De diabete mellito ejusque nexu cum cerebri et nervorum affectionibus, Berlin, 1864: *Finder, G.*, Psychosen bei Diabetes mellitus, Berlin, 1891: *Haeusser, L.*, Gicht u. Psychose Greifswalde, 1890: *De los Santos*, De l'état mental chez certains diabétiques, Paris, 1878.

VII. DISEASES CAUSED BY GERMS, INCLUDING TUBERCLE AND RHEUMATISM.—*Korb, P.*, 3 Fälle von Psychose nach acuten Infections-Krankheiten, Erlangen, 1893: *Bessière, Ch.*, Du cancer au point de vue de ses rapports avec l'aliénation mentale, Paris, 1881: *Brann, C.*, Typhus u. Psychose Würzburg, 1869: *Buri, Th.*, Über das Verhältniss der Tuberculose zu den Geisteskrankheiten, Basel, 1886: *Cruwell, R.*, 2 Fälle von Psychose nach Typhus, Greifswalde, 1874: *Hoppe, A.*, Ueber Psychose nach Variolois, Greifswalde, 1874: *Klein, P.*, casuist, Beiträge zu den im Gefolge von Gelenkrheumatismus von kommenden Psychosen, Berlin, 1890: *Eberling*, Infl. Psych., Berlin, 1892; Aust. degl. Königab., 1894: *Kloster, Fr.*, Quomodo in insaniam valeat febris intermittens, Bonn, 1848: *Lazarus, Ju.*, Typhus u. Gehirnkrankheiten, Berlin, 1888: *Lemat, Fr. H. M.*, Des troubles psychiques qui peuvent se présenter dans le cours de la phthisie pulmonaire chronique, Paris, 1875: *Maréchal, L.*, De la manie rhumatismale, Paris, 1876: *Mickle, W. J.*, On insanity in relation to cardiac and aortic diseases and phthisis, London, 1888: *Mueller, A.*, Über einen Fall einer phthisischen Psychose, Würzburg, 1886: *Reif, Ch. A.*, Über Psychosen im Verlaufe des Typhus, Würzburg, 1888: *Schmidt, Em.*, 3 Fälle von Psychose nach Typhus, Greifswalde, 1873: *Weidmann, O.*, Ueber Psychosen bei Typhus abdominalis,

Königsberg, 1891: *Kraepelin*, Archiv f. Psychiatrie, Bd. xi und xii: *Jutrosinski*, Influenza-Psychosen Dissertation, 1890; Kirn, Volkmann's klin. Vorträge, Neue Folge, xiii., 1890.

VIII. CONDITIONS PRODUCED BY VARIOUS VEGETABLE AND MINERAL POISONS.—*Zimmermann, A.*, Psychosen in Folge von Iodoformgebrauch, Bonn, 1893: *Kaphengst, P.*, 2 Fälle von Psychosen nach wergiftung durch-kohlendunst, Greifswalde, 1877: *Kirn*, Chloral-Psychosen, Berlin, 1883: *Knoerr, C.*, Zur Lehre der tagischen Psychosen, Narburg, 1892: *Bartens*, Geisteskrankheit nars Bleinergiftung, Berlin, 1879: *Zimmermann*, Iodoform-Psychose, 1893: *Kampe*, Psychische Schwefel-Kohlenstoff wergiftung, Leipzig, 1895: *Ergotin*, *Siemens*, Archiv für Psychiatrie, xi., 1 u. 2; *Tuczek, ibid.*, xiii., 1; xviii., 2.

IX. TRAUMATA, INCLUDING SURGICAL OPERATIONS.—*Christian, Kratter, Pick, Thomsen, Ball*, Traumatische Psychosen des Kopfes: *Gusci*, dent. chirurgische Operationen und Geistesstörung: *Elchnig, A.*, Über Geistesstörung nach Augenoperationen, Wien, 1888: *Fabian, E.*, Ein Fall von Psychose nach Augenverletzung, Königsberg, 1893: *Véne, L.*, Etude sur les délire post-opérateires, Paris, 1891.

X. BLOOD.—*Nasse, Fr.*, Über die psychische Beziehung der Blutes, Bonn, 1822: *Juetting, F. A.*, de psychica sanguinis dignitate, Berlin, 1830.

XI. DISEASES OF THE SKIN.—*v. Bröcker*, Hautauschläge u. psychische Krankheiten, 1892: *Ernst Reynolds*, Psychische Strörungen bei Krankheiten, British Medical Association, 1895: *Wrisberg, H. A.*, et *Beyer*, De febris continuis longis cum melancholia conjunctis, Göttingen, 1831: *Kraepelin, E.*, Über den Einfluss acuter Krankheiten auf die Entstehung von Geisteskrankheiten, Berlin, 1881: *Fr. C.*, Über psychische Erkrankungen bei acuten feberhaften Krankheiten, Strassburg, 1881: *v. Poklatecki, C.*, Beitrag zur Casuistik der Psychosen bei acut. feberhaften Erkrankungen, Strassburg, 1886: *Weber, Herm.*, Über das Delirium oder das acute Irresein während der Abnahme acuter Krankheiten, besonders über das Delirium im Collapsus, Deutsch. v. W. Beneke, Leipzig, 1865.

XII. BODY AND MIND.—*E. S. Reynolds*, Mental Symptoms Occurring in Bodily Diseases, Journ. Ment. Sc., Jan., 1896: *Jacobi, M.*, Beobachtungen über die Pathologie u. Therapie der mit Irreseyn verbundenen Krankheiten, Elberfeld, 1830: *Haase u. Wenck*, De parallelismo inter corp. et an., Leipzig, 1812: *Cabanis*, Rapp. du phys. et du morale de l'homme, Paris, 1824: *Dombrich*, psych. Zustände, 1869, Jena: *Franz Amelung u. Bird*, Beiträge zur Lehre von den Geisteskrankheiten, 1832, I. Bd.: *J. von Geuns*, De Animi Habitu, arualis in variis Morbis chronicis Observatur Amstelodami, 1833: *Klaatsch*, De psych. organ. dignitate, 1818: *Hack Tuke*, Body and Mind.

(To be continued.)

CLINICAL NOTES AND CASES.

A case of Melancholia, with Lipoma, apparently becoming demented. Operation and Recovery. By FREDERIC P. HEARDER, M.B., C.M., Assistant Medical Officer, West Riding Asylum, Wakefield.

W. B., male, æt. 50, admitted to the West Riding Asylum in November, 1894; first attack of three months' duration. Family history good. He had been a hard-working, sober, and thrifty man, the nature of his calling exposing him much to the weather. A tumour had grown during 20 years on his arm, and, for some