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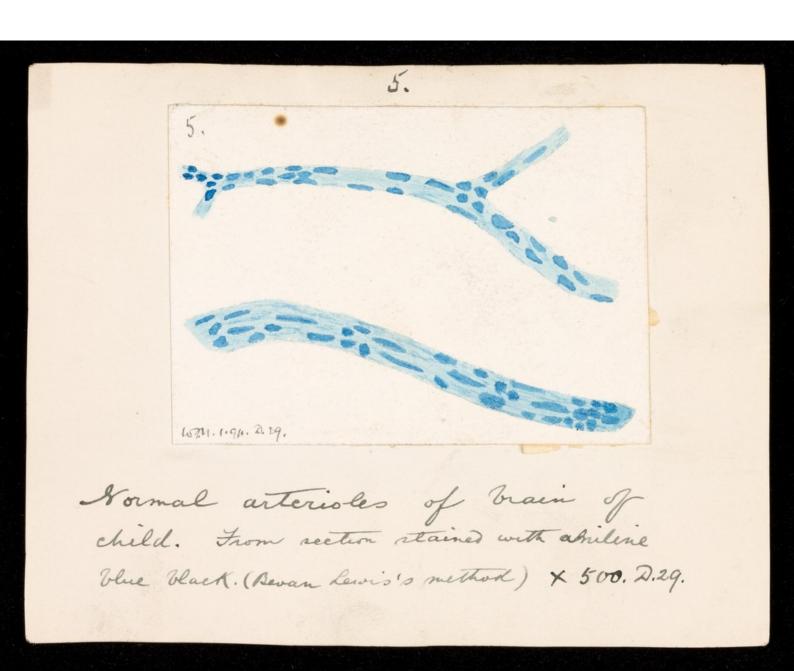
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1. Sormal human brain. Motor conteq. Sia mater and first and second lavers of grez maller . From section prepared by Bevan Lewis's Jush method. × 500.

2. Gia mater and first and second layers of motor coster from case of advances general paralysis of the insame. From section prepared by Bevan Lewig's method. 7350.

3. 3. WAN 1.94. 232. Sormal capillaries of human brain. From section prepared by Bevan Lewis's method. × 500.

4. A. 1577. 1.94. 230. General paralysis of the insane. Capillaries in grey matter. Irregular theckening, granularity, n proliferation of nuclei. From section prepared by Beran Lewis's method. × 500.



6. 6. 00 10771. (.94. 2,36. Capellaries in The grey matter in a care of General Paralysis of The insame, as seen in a section prepared by Bevan Lewis' Jesh method. × 600. D. 36. Gregulan theekening and granulanty; great pro-liferation of perithelial cells. a. Degenerated merve cell. & spider cell.

7. wm-1.94. Ryan 7. 11.90. Deepest layer of cortex in a case of advanced general paralisis, as seen in a section prepared by Bevan Lewis's method . (× 500) Show. thickened capillary, spider cells with vascular processes, and degenerated menoe cells.

8 8. 15.7.1. 1.94 D22. × 500. arteriole in grey matter of motor convolution in a case of advanced general paralysis of the insame, as seen in section prepared by Bevan Lewis's freah method (x 500) great accumulation of leverytes in ad-

Pia Thickened to densely infiltrated. with round cells. Dense sabpial betting. Outer laver of grey matter with numerous spider cello and thickened capellary. Deeper layers of pia and part of first layer of motor costey in a case of advanced general paralysis of the insame, as seen in a section prepared by Bevan Lewis method (× 500)

10 NAW 1.94. A 3'Xx X600 ... Brain of sheep. Sormal. Serve cello of second layer as seen in a specimen prepared by Bevan Lewis's fresh method. × 600. Motor region. a. Ceneverte. E. nucleolus recognisable in this celloule.

11. W.T.n. 1.94. Brain of sheep. Gormal. Motor nerve cells, as seen in a specimen prepared by ×600. method. Bevan Le wis's fres ie wall of penice cells in

12 × 500 ×4. W.M. 1.94. Brain of sheep. Somal. Larger cell element of the neuroglia as seen in a specimen prepared by Bevan Lewis's Jesh method. a. capillary. beuroglie cell nucleus, protoplasm (which should be ter) and numerous delicate beauti shows me lighte

13. Protoplasm is granalar. Vueleus stains very deeply. trucleolus stains faintly and constained body of megalar outline. (Indonucleolus?) han 1.64 Nerve cell of second layer from brain of sheep (normal) as seen in a specimen prepared by becknomate figation & grape sugar method and stained with andine blue black (m. S. m. 2) × 500 × 10.

1H, WAN. 1.94. HP67. Nerve cells of normal human brain. From second layer. Bevan Lewis's Jush method (× 600 × 2) a. Concocate or nucleus of cell in wall of pericellular sac? & physiological pigment. C. Note lighter spot in nucleolus (presently seen)

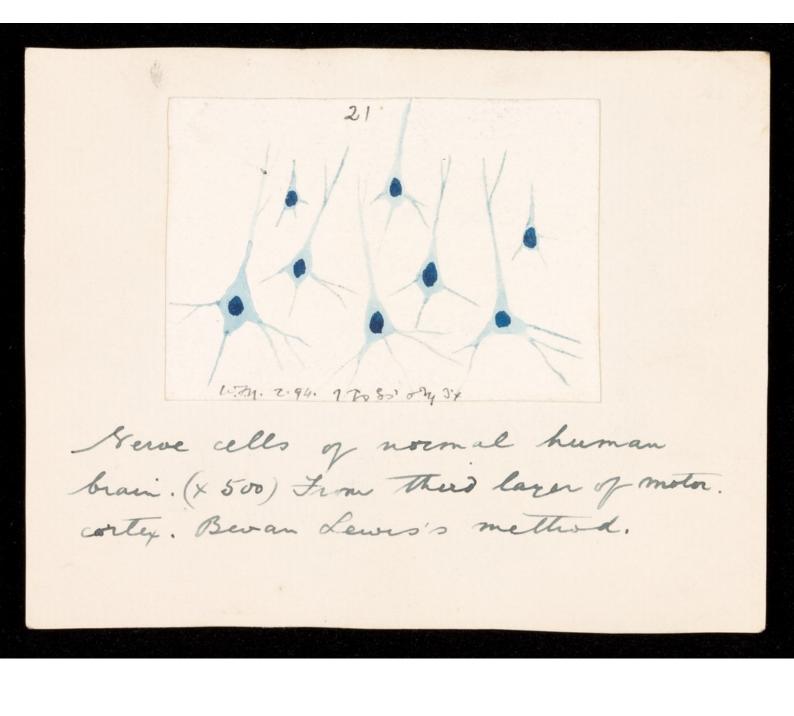
15 WA1. 2.94. H.F. 72 . Motor nerve cells showing first stage of pigmentary degeneration. From a case of serile insanity with localised softenings of grey matter of cortex. Bevan Lewis's method. (× 500 × 2)

WAM. 2.94. Nerve cells showing just stage of "pigmentary degeneration", from a case of general paralysis. (H.F. 75.). Bewan Lewis's method. ×600. Ecles swollen, protoplasm stains very deeply and ineqularly, pigment much increased, processes still distinct.

17. W7.11. 2.94. D. 43. Nerve cells showing second stage of "pigmentary degeneration," from a case of general paralysis. (2.43). Bevan Lewis's Method. × 600. Grotoplasm stains faintly, pigmented area is very large and is surrounded by a deeply, stained "sclerosed sevelling", processes are indistinct and many of them appear bucken across,

19. a. 2 WM. 2.94. D. 54 Herve cells showing advanced granular degeneration from a case of alcoholie demention Bevan Lewes's method. (x 500)

20. 40.0m. Spider cell and vessel from a case of general paralysis. Bevan Lewis's method (* 500 × 2) Note three different modes of connection with vessel (apparent).



22 WM. 2.94. bells of cortex of Joetus. Bevan Lewis's method. (*500 x 11/2)

23. W7.1. 2.94. H8? 3. Developmentie worket of nerve cello in a case of chileptic idiocy. bello of Third Lazer. (x 500 x 1/2). Bevan Lewis's method.

24. ę. W.M. 2.94. D.43. Nerve cells showing third stage of pigmentary degeneration," from a case of general paralysis (243) Lewis's method (+ 600) a. Kuclens has disappeared; cell is shrunken. 2. bill is beginning to break up; most of pro-cesses have gone; stains faintly; pigment excessive,

25. W.M. 2.94. 2.46. Serve cells showing third stage of pigmentary degeneration. Bevan Lewis's method. (x 500) From a case of semile insanity.

26. a. 2. W. m. 2.94. HP D. 49. Nerve cells showing granular degeneration, from case of delusional insanity Bevan Lewis's method. (x 500)

27 W.7.7. 2.94. D. 37. Fatty arteriole from a case of delusional insanity with death from phthicis Broan Lewis's method . (x 500)

28. W.M. 2.94 2013. Gigmented arteriole from a care of general paralysis. (x 300) Bevan Lewis's method.

29. W.7.M. 2.941, HP. 31. 78 874 Arteriole from a case of alcoholic dementer. Bevan Lewis's method (x 300) Note heaping up of round cells at places.

30 arterede from a case of general paralysis, - in grey matter of motor cortex. D. 44. Bevan Lewis's method. (x 300). Note aggregation of round cells, blood pigment, attachment of very numerous processes of spider cells.

31. 31. am. 2.94. Transverse section of branch of midelle cerebral artery from a case of syphilitic insanity. Endattents obliterans Bechromate pijation. Logwood & losine. (x60)

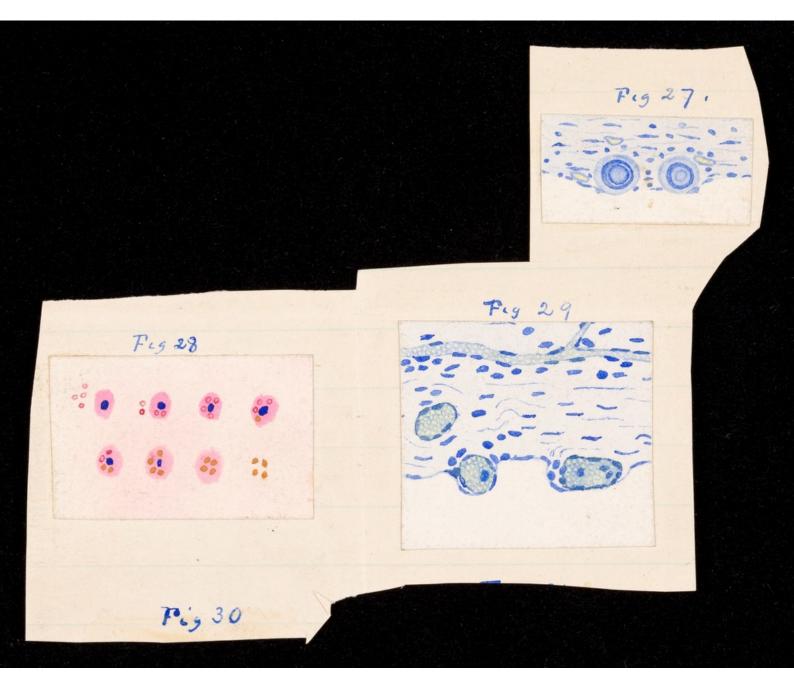
32. Pra-arachnois Thickened and infiltra-Teo with rells. Deuse subpial belty with collors bodies. Fast lager showing by (more delis cate than commonly seen in general paralysis) Theckened vessel and AV1.2.94 1 collois bodies Sia and first larer in alcoholie demention. Bevan Lewis's method. (x \$400) H.B. 31.

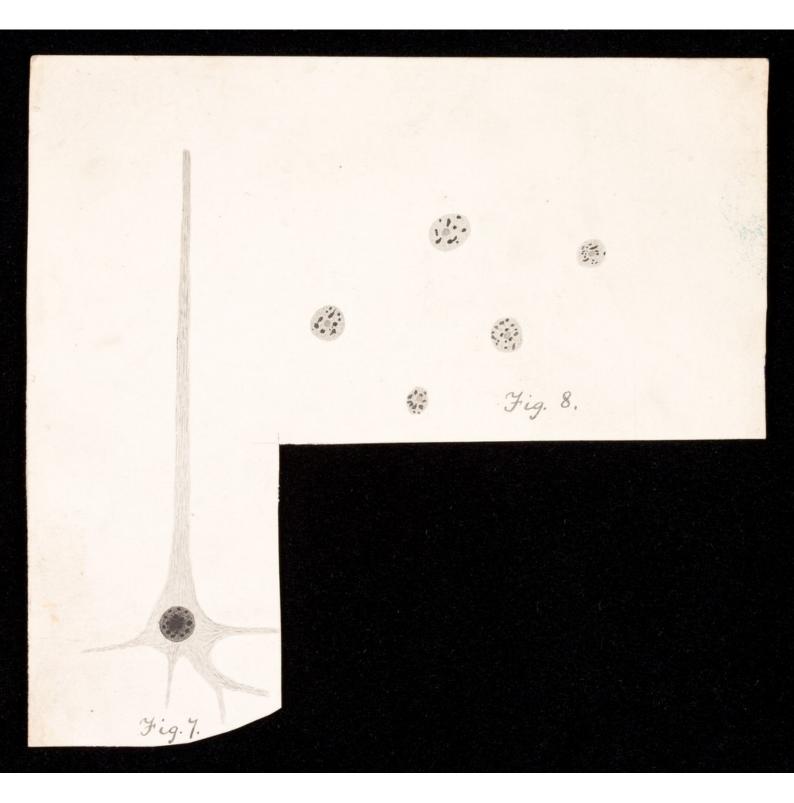
33. a 6. Transverse section of dura and subdural membrane. From a specimen of S. Middlemass's Nardened and stained with pierocarmine. (+ 200) a. False membrane 2. Dura.

W.2. 94 D12 Subdural membrane from a case of general paralysis Stripped off, fixed in potassium cha bichiomate and stained with logwood nersine (x 300) Note capellones of large calibre and with very this walls; Imperfectly developed fibrous tissue; setta-wasated red and white blood corpuseles; blood pigment.

2. x 300. Pia-arachnoid and first layer of cortey in a case of serile insanity. Fresh method. a. Pia-arachnoid somewhat Thickened and infiltrated with attered blood pigment. 8. Dense subpial felting, packed with colloid bodies . c. 1st layer showing spider cells, to







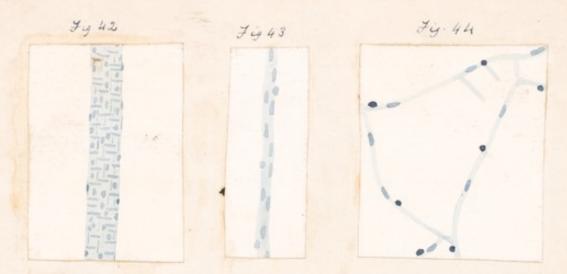
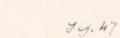


Fig. 46







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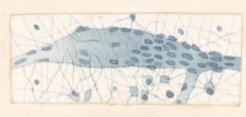


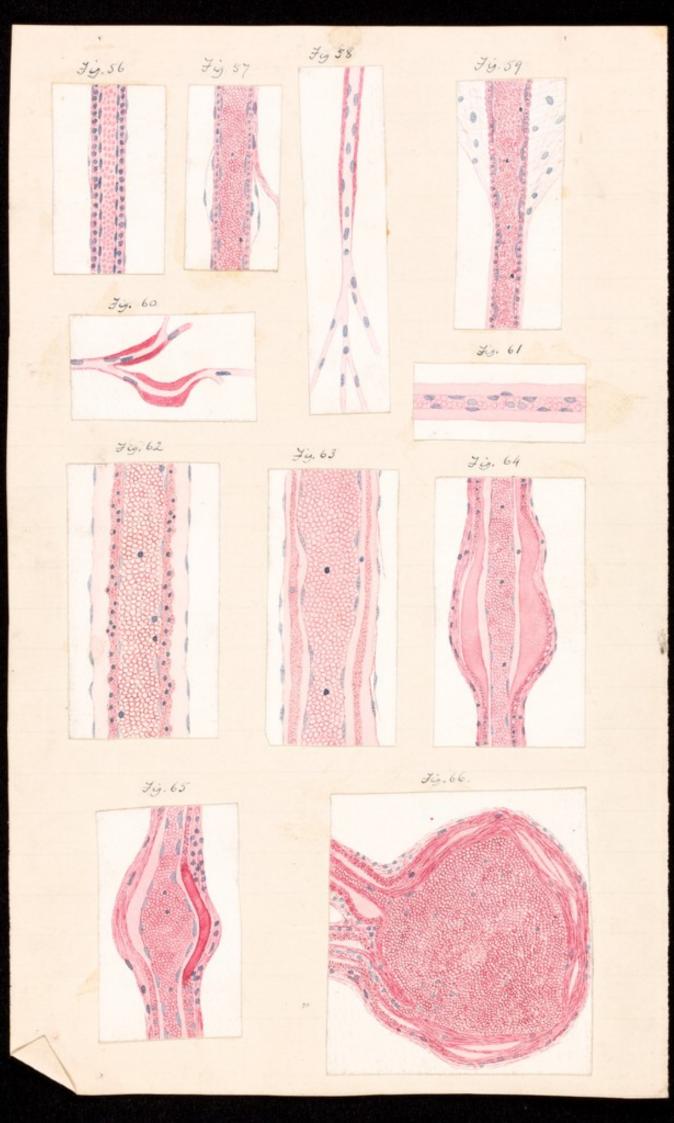


3 G. 55.



9 ig 54







Nerve cell. B. F. - Aneline Blue Blk. Protoplasm filled with clear granules. nucleus deformed.

H. P. 61. General Paralysis

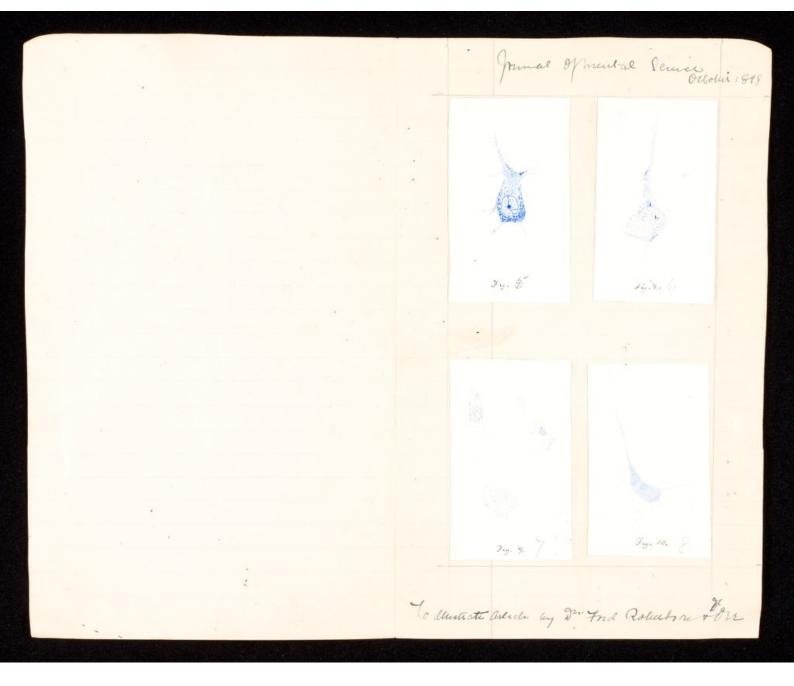


advanced.

Nerve cells. B.F. al. Carmine 1: Cell is christen; processes have dis appeared. There is some pigment at the taxe. Partoplasm shows some deeply stained minute granules, and also some larger pole granules. Rueleus deprined. Rueleotus executice, r. shows clear body or vacuate. 2. Similar cell. Shows a faintly stained area round mucleus, deep staining at periphery -finegular), and mumerous clear colourless granules. 3. Similar to 422.



Ryramidal merse cells of occipital contry of healthy sheep. Find metho Whiles been atoy. Sheep. 12-4.94. XSC



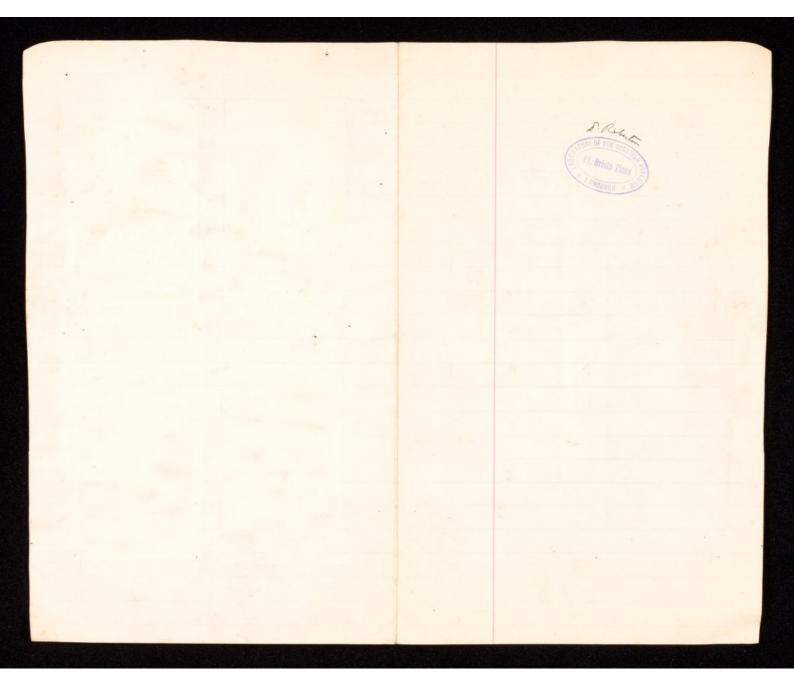
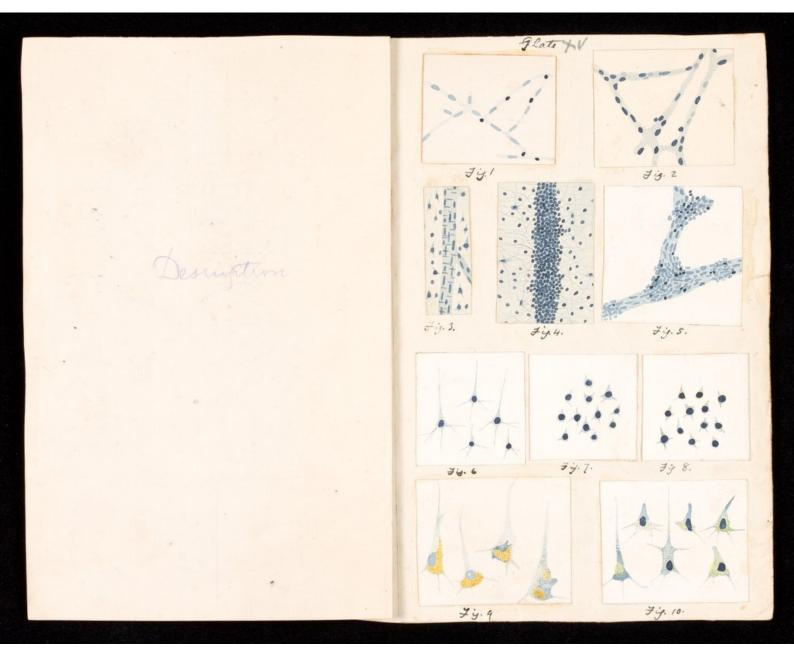


Plate XIV Ŧġ Jy. 2



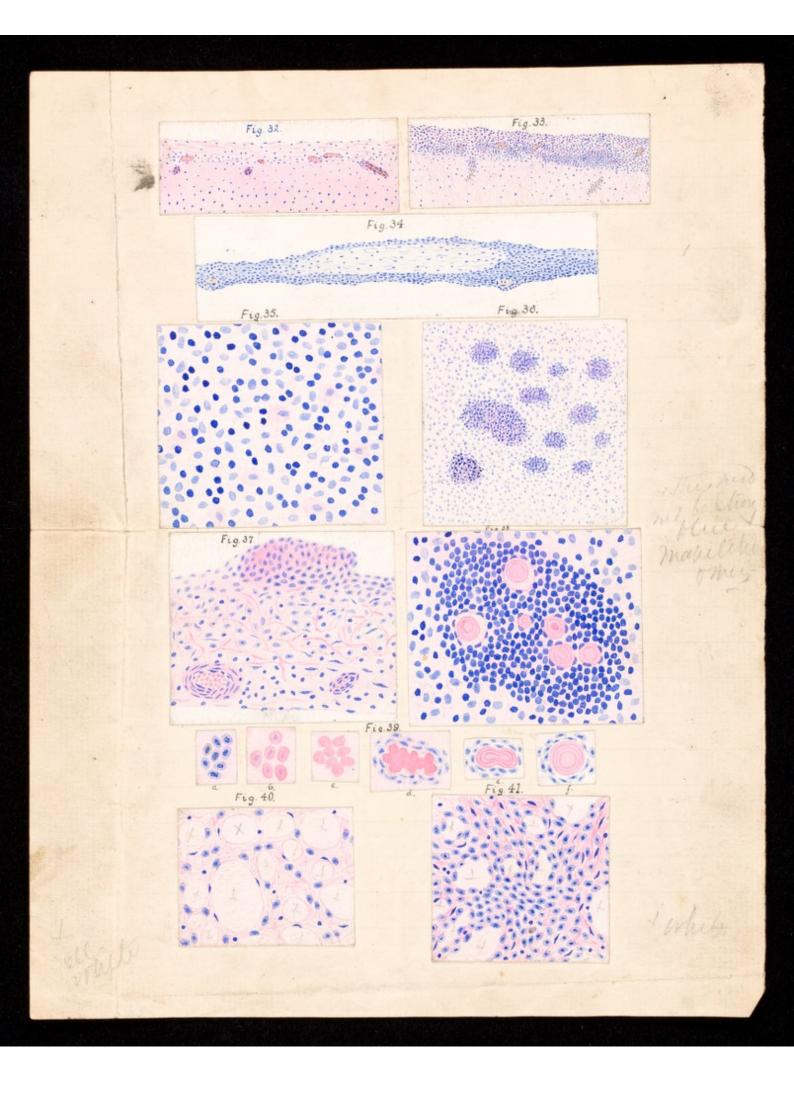


PLATE XV.

Fig. 1. Normal capillaries of human cerebral cortex. Bevan Lewis's fresh method. \times 500. Fig. 2. Capillaries of cerebral cortex from a case of advanced

general paralysis, showing marked thickening and granularity, and increase in number of nuclei. Bevan Lewis's fresh method. × 500. Fig. 3. Normal arteriole of human cerebral cortex. Bevan Lewis's fresh method. × 300.

Fig. 4. Cerebral arteriole from a case of advanced general paralysis, showing dense aggregation of round cells upon its walls, and the processes of hypertrophied spider cells attached to it. Bevan Lewis's fresh method. \times 300.

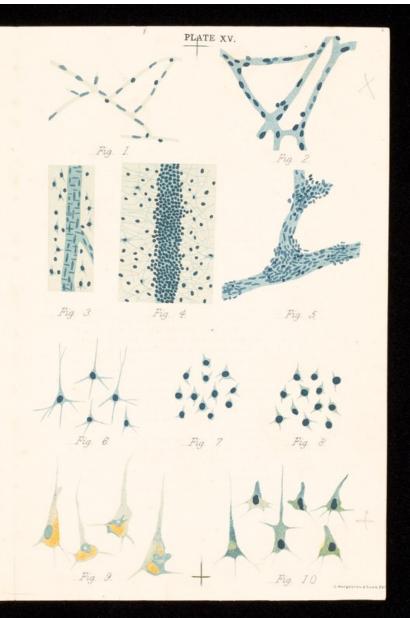
Fig. 5. Cerebral arteriole from a case of alcoholic insanity, showing general fibrous thickening and localised cellular aggregations. Bevan Lewis's fresh method. \times 300.

Bevan Lewis's fresh method. \times 300. Fig. 6. Normal small pyramidal nerve cells of third layer of cerebral cortex of child. Bevan Lewis's fresh method. \times 500. Fig. 7. Nerve cells of cerebral cortex of full-time feetus. Bevan Lewis's fresh method. \times 500. Fig. 8. Nerve cells of third layer of cerebral cortex, from a case

Fig. 8. Nerve cells of third layer of cerebral cortex, from a case of epileptic idiocy. [Patient aged 24.] Bevan Lewis's fresh method. \times 500. The nerve cells closely resemble those of the focus, the only difference being that they show a degree of granular change in their protoplasm. A comparison of these two specimens (7 and 8) is most instructive as showing one stage in normal brain cell development in Fig. 7, and morbidly arrested development in Fig. 8; each corresponding to the respective mental developments of the individuals from whose brains they were taken.

Fig. 8: each corresponding to the respective mental development in Fig. 8: each corresponding to the respective mental developments of the individuals from whose brains they were taken. Fig. 9. Large pyramidal nerve cells of frontal cortex, from a case of senile insanity in a patient aged 85. Bevan Lewis's fresh method. × 500. They show advanced pigmentary degeneration, with loss of many of their processes.

Fig. 10. Large pyramidal nerve cells of frontal cortex, from a case of secondary dementia. Patient had an attack of mania at the age of 21, which was not recovered from. He died at the age of 32, from phthisis. Bevan Lewis's fresh method. \times 500. The nerve cells show marked granular change in their protoplasm, and many of their processes, more especially the apical, are stunted.

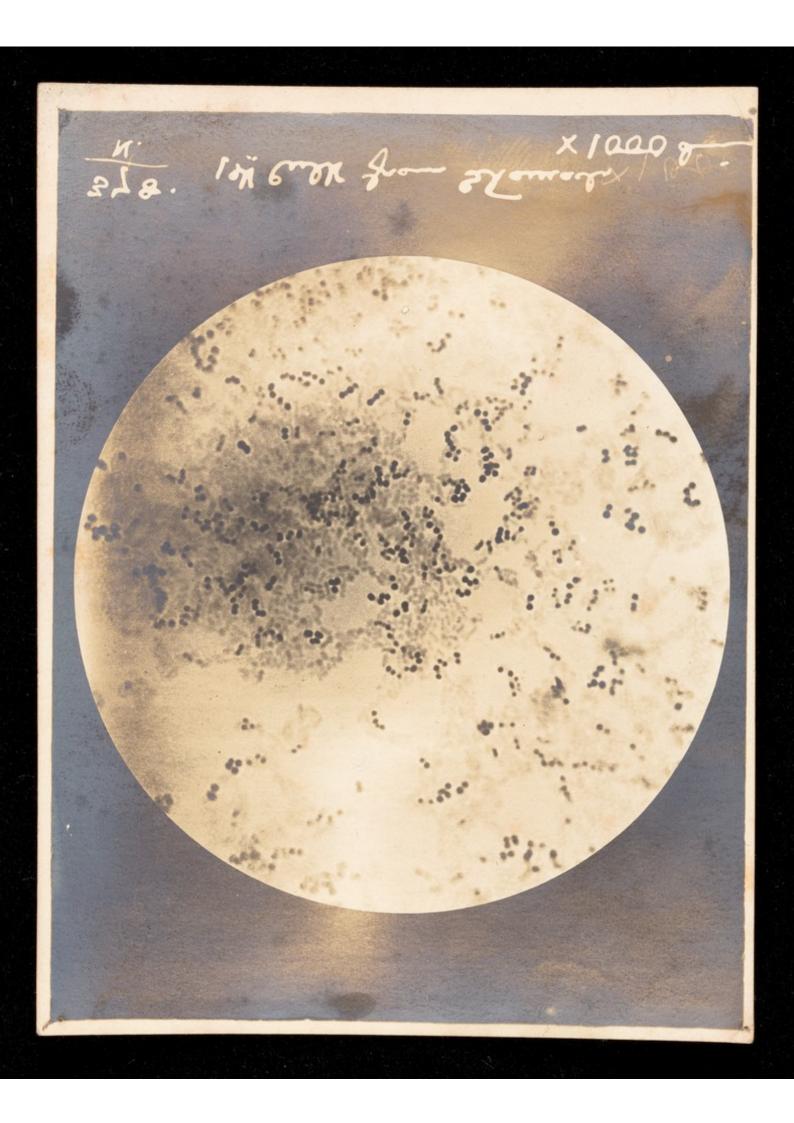


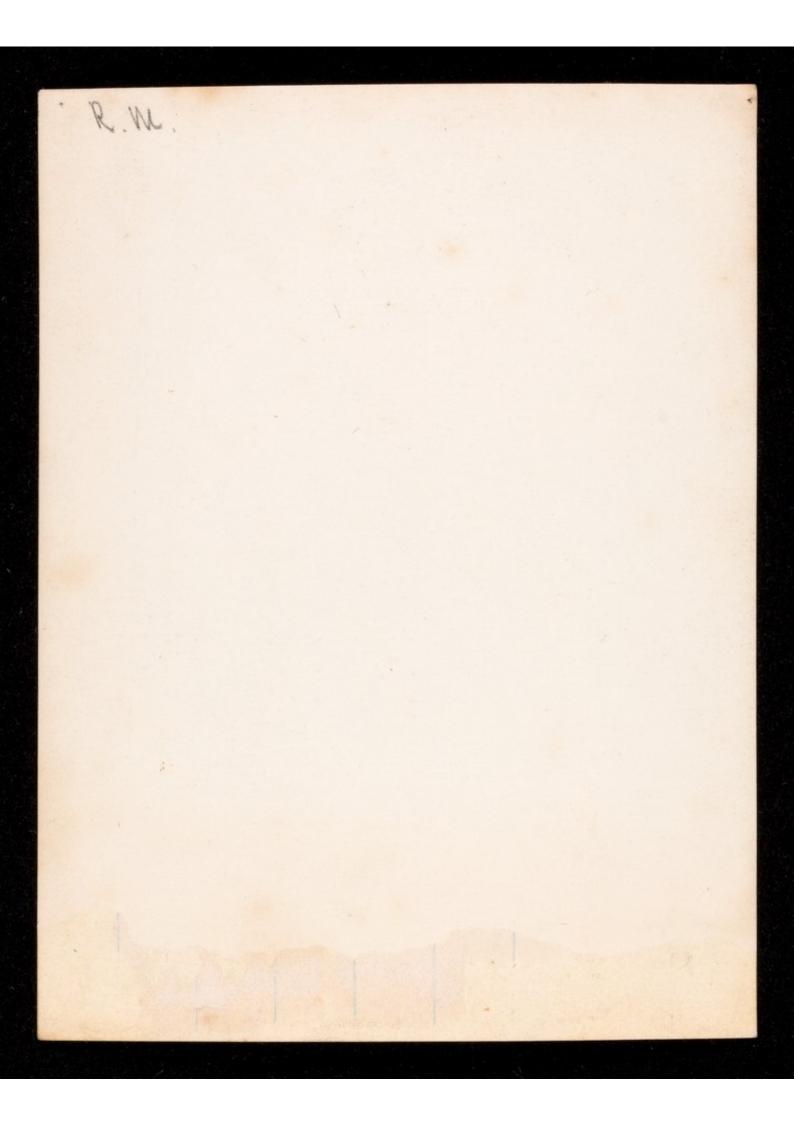
Note for lithographer. Colours used 1. Indego 3. 4. Carm 5 6 Pale chrome vello Samboge 7. 🧰 Fig. 42. Ground 1; Nuclei 2. Fig. 43. 00. Do. Fig. 44 .. Ground 1 . Elorgated mucher 2 ; Round mucher 3 . Fig. 45. Ground 1. Mueter 3. Lines at sides 1. Note spots of zellow pigment, - No. 6. Fig. 46. Ground 2. Muelei 3. Ly. 47. Ground 1. Muchei and streets 2. Ly. 48. Ground 1. Muelei 3, Pigment 7. Fig. 49 Ground 1. Streaks 2. nuclei 3. Gellow pigment 6. Fig. 50, Ground 1, nuclei 2. Gellow pigment, 6. Fig. SI. Sround 1. Goal muclai 2. Round muclei 3, Gellos pigment 6.

- Jy. 52. no colour for ground. Circles representing blood confuscles in versel, 1. Protoplasm of cello, 1. Genel walls 2. melei 3. Gellor pigment No].
- Ly. 53. Ground 1. Some of nuclei and granules 2. Other nuclei 3.
- Fig. 54. Ground to be homogeneous and not granular - No2, shading off into No1 of possible. Lives, and protoplusm of cells not on versel No 2. Nuclei of cells not on versel, and muclei on versel, No 3.
- Fig. 55°. Ground 1. Nuclei 2. Dark rod, 3. Expendent Ground of two expanded portions to be quite homogeneous.

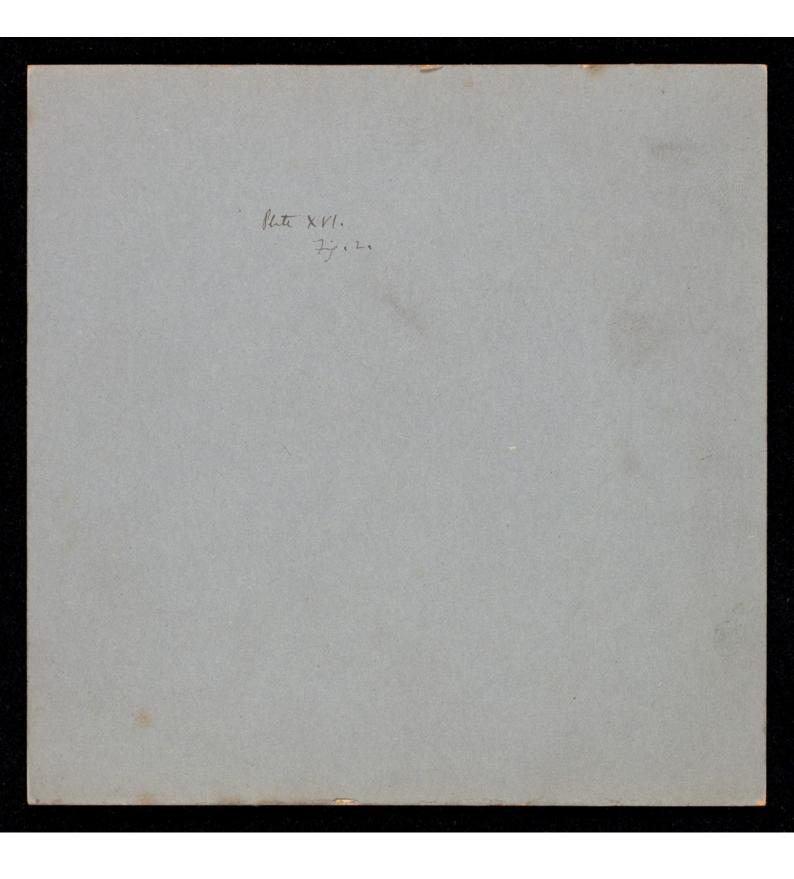
Ly. 56. Ground 4. 5 and 3. Ly. 57. 4-5- - 3. Ly. 58. 4-5- and 2 Ty. 59. 4 and 5. For mater beyond owned, 2. To mater is word wall, 3. Ly. 60. 4-5 and 3. Ty. 61. 4, 5° and 2. Ty. 61. 4 and 5. For rounded malle No 3. For external elogated malei No 2. For elogated malei mett red confuscles No1, with grander of No 2. The fall red band should be perfectly homogeneous ing. 63. sames as Sig 62.

Ly 64 4 and 5. Sloughted meter next red corpustes Not with granules of No2. Other mulei No3. Redschere neiter dotted nor in lines ty.65 Same as tij.64 Tij.66. Same as tij.64, but all mulei No.3,









Section of miliary ancurism in pia-arachnoid from a case of semle insanity. Hamatox. 1000. (× 50). miliary aneurisms are found with some prequency in cases of sende insanity.