

"The pathological anatomy of idiocy: resumé": notes by Shuttleworth and Fletcher Beach (1846-1929)

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The Pathological Anatomy of Idiocy.

By

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Resumé

As far back as the time of Hippocrates the physical characteristics of Idiocy were noticed. In the first volume of the English translation he speaks of the Macrocephali, who were in the habit of producing cranial deformation of the head.

Pliny too in his "Historia Naturalis" mentions the Macrocephali, and Jalfius (Observationes Medicae) has a chapter on Hydrocephalus which he had seen associated with Idiocy.

Kellie in his "Collected Works" in the part dealing with The Anatomy of the Brain (English Edition) describes and figures the brain of a young man, completely imbecile, the size of whose brain was scarcely one-fifth of that of an ordinary man (microcephalus).

Puiseux (Traité sur L'Aliénation Mentale) also describes & gives illustrations of two cases of microcephalus, & Gall & Spurzheim in their Atlas accompanying their "Anatomie et Physiologie du système nerveux en général et du Cerveau en particulier" give plates not only of microcephalic heads & Crania, but of hydrocephalic Crania, in one case of a Cretin, in the skull of an imbecile child. The above remarks have reference to the size of the head.

As regards the form, bony deformations are noticed by Meckel in "Mémoires de L'Académie de Berlin" published by him in 1760.

With respect to conformation, Jelfius (Observations

Medicae rarioris) remarks that the
convolutions are less numerous, & Malacarne
(encephalotomia nova univrsale) states
that the lamellæ of the cerebellum increase
or diminish according to the development of
the intelligence.

As regards the organisation, Meckel (1760)
remarks that in idiots there are dryness &
hardness of the cerebral substance, & Bournet
& Haller report tumours & ulcerations in
the brain & cerebellum.

Finally, Esquirol (bes Malachés Mentales)
notices that the convolutions are small,
atrophied, compact, & thin, & that the lateral
ventricles are of small capacity.

Apparently the first observers dwell most
on the size & shape of the head as causes
of Idiocy, the structure of the brain being
noticed at a later period.

Coming now to recent times, we find that
modern authors are of opinion that
pathology & classification are mutually
interdependent. According to this view we

have classified the anatomic-pathology of
idiotcy under three chief heads, viz,

I Congenital formation defects;

II Developmental cases; &

III Acquired cases.

Under the first head we place (1) Microcephalus,
(2) Hydrocephalus; (3) Scaphocephalus; (4) "Kongenit"
imperfections of the osseous, cutaneous, mucous,
& in some cases cardiac tissues; (5) Neuro-pathic
"genitons" cases, in which the convulsions
are coarse & simple, or are small slender,
& curling (microgyry); (6) Amanotic "genitons"
cases; (7) Sporadic cretinism, due to defective
structure or absence of the thyroid gland; &
(8) Partial local defects, such as defect of the
corpus callosum, or porencephalus.

Cases illustrating some of the foregoing types
have been reported by us, & by Marshall,
Ireland, Telford-Smith, Spiller, Vogt, Otto,
Schroeder van der Kolk, Brunet, D'Astros,
Jastrowitz, Hanouarberg, Klinker, Sachs, Koplik,
& Kingston assisted by Kirsten Russell

Under the second head, we include (1) Relapsive

cases with haemorrhagic or inflammatory lesions; (2) Epileptic cases, the views of Brown Lewis, Andriegan, Bally, Luke, & Echzornia being given; (3) Syphilitic & Juvenile General Paralysis cases, the opinions of Clouston, Holt, & our own being quoted; & (4) Paralytic cases, in which there are degenerative changes in the vessels of the brain, or in some cases atrophy of the brain. These cases may be due to birth palsy, to palsy coming on after whooping-cough, or to inflammation.

The opinions of Schroeder van der Kolk, Feud, Telford-Smith, & of ourselves are given. # Under the third head, are comprised (1) Traumatic cases, due to pressure on the head during labour owing to abnormal narrowness of the pelvis, prolonged labour, or less often the use of the forceps, & lesions produced by accidents; (2) Post-febrile inflammatory cases; Under this sub-head is placed Hypertrophic Idiocy, a monograph in this subject has been published by our self
Whit

us; and (3) Scabrous Idiocy, a disease first described by Boursenville in 1882. The changes in the brain observed in this disease were noted by Dr Libmanth in 25 out of 100 cases, & have been noted frequently by one of us (Beach), who not only describes the changes already observed, but also hyperaemia, softening, tumours, & disease of the membranes of the brain; a symmetry of hemispheres & convolutions; situation in relation of grey to white matter of brain; simplicity of convolutions, thickening of the arteries; thrombosis, disease of the cerebellum & spinal cord; & anomalies of the convex surface & base of the cranium in Tuke's Dictionary of Psychological Medicine, 1892.

The microscopic appearances of idiocy have been observed & noted by one of us & by Pevan, Lewis, Andriessen, Meiningensky, Hammaberg, & Boursenville.

The Anatomy of a Hydrocephalic
Brain by A. Hill M.D. J. Gen. & P. 19. 363. 365

Body of J. Hill ^{at 5 ft 8 in.} Nothing suggestive in
the configuration of head - Weight of brain - after
soaking for a week in spirit 10 $\frac{1}{2}$ oz (291.4 gr).
Weight when fresh probably not more than
15 oz (425 gr) Circ. of head 18 $\frac{1}{2}$ in or 10 $\frac{1}{2}$ in.
All parts below cerebral hemisphere small but
otherwise normally developed.
Cerebral hemispheres present remarkable deficiency,
but not being greatly distended, & walls formed
for most part of membrane - not more than
 $\frac{1}{3}$ of cortex was developed. This was confined
to the frontal region as far as the front of the
Ant. Transverse convol., the S. of the (uncov.)
the front part of the Temp. Sphenoidal lobes, &
the orbital region behind the radiate fissure.
Even in these regions the convol. & sulci are
embryonic arrangement. In the orbital region,
in front of the radiate fissure. The parietal
& occipital regions, cortex replaced by smooth
Cerebral surface membrane, varying fr. .75 mm
to 2.5 mm in thickness.

Changes evidently Congenital

Corpus Callosum Totally absent

Ant. Cornu normal

Post. Cornu normal

Fornix small.

Int. Capsule reduced to size -

Conclusions

Corp. Callosum not substituted by Corp. Sp.

— Cf. history by Dr. de Lisle (St. Or. Hospital)
Healthy when born. Alleged no heredit known
at 11 mos. had convulsions
Unable to walk. Never walked
Never talked

Blind

Sounds of voice responded to these &

Identify. Some smell. (Smelt food)

Deformed pelvis: legs drawn up.

Evacuations passed involuntarily

Will only take food if one whose voice

he recognized - Altho. will say to him

"Now Harry" & he will open his mouth.

Food disappeared without any
apparent effort at deglutition



Palate arched & cleft

Aut. ~~was~~ ^{is} remarked with regard to feeding
His wife pouring water down a pipe etc!
Food - milk & beef tea thickened with Eggs etc.
Could recognize light, & smell when he was young
Died of diseased knee joint & abscess
bonited & lost his strength.

Congenital Abence of ^{ferrous etc.} Corp. Call Him
Ligabart. (Case at St. Dep't Warrick C.A.)
Head irregular & globular.

Ataxic.

Mental faculties developed to High Degree
Head Circ 17 1/2 in.

Other cases by Paret, Lully, Rie & Bourne
& Christie.

Major op. microscopic appt. is atrophy
of Man. J. L. 29.

Font

Fr. Eye.

Font. 1st 2nd 3rd
most ant.

Head Forms of .

1. *Rickettsia*. Defective? Sagittal & coronal sutures open after 18th month: fontanelle does not close till after 2nd year. I think are areas of parchment cracking - cranial tables most marked in parietal sq. Frontal & parietal bosses (Byles or others) (also exist in congenital type)
2. *Choroideremia*. h. large & sq. sutures. Fontanelles widely open face compressed small.
3. *Microcephaly* head small - bulge head to be noted - fontanelle closed early
4. *Cretinism*. head large forehead low fontanelles open - eyes far apart.
5. *Unusually umbellid* head short & spherical - eyes close to one another
6. *Acrodactylia* head large & broad forehead prominent & bulbous nose.

The Article in *Co. Med.*
by Fleming - Path. R.P.S.

Hypertrophy of Brain first described
by Virchow in 1858, consists of an
increase of neuroglia in excess of
nervous cells & neurofibres. Deficient
circulation of oxygen may be a cause,
as it is found in cases like rickets,
where sutures close & hard. There is a
greater amount of white matter, & con-
tractility of brain is ~~less~~ greater than normal
Brain at all times

Hypertrophy (Gowers) mental defect,
insanity, fits, headache, mania, etc.

Morbid hypertrophy = enlargement of brain
with greater or less degree of sclerosis

Atrophy = increase of connective tissue
at expense of nervous cells. Before birth

↳ imp. subnormal development - at birth

↳ haemorrhage. During first few
years of life ↳ imp. development

Partial atrophy
hemiplegia often accompanied with sp. h.

Chorea (athetosis, morbi)
Acute Encephalitis
Chronic " (Bourneville's disease)
Sclerosis

Dr. A. Garrod Trans. Ct. Soc. Vol 30 (1892)
p. 67 (also S. B. W. R. L. 848 53 (1894))

6 Cases illustrated above? of Congest. H. D.
with the Urongotian Form of Polio.

I. ¹⁸⁹⁷ Lyanois Lond Sept. 18. low P. 18

II. 8m. " " " "

III. 16m. " " " "

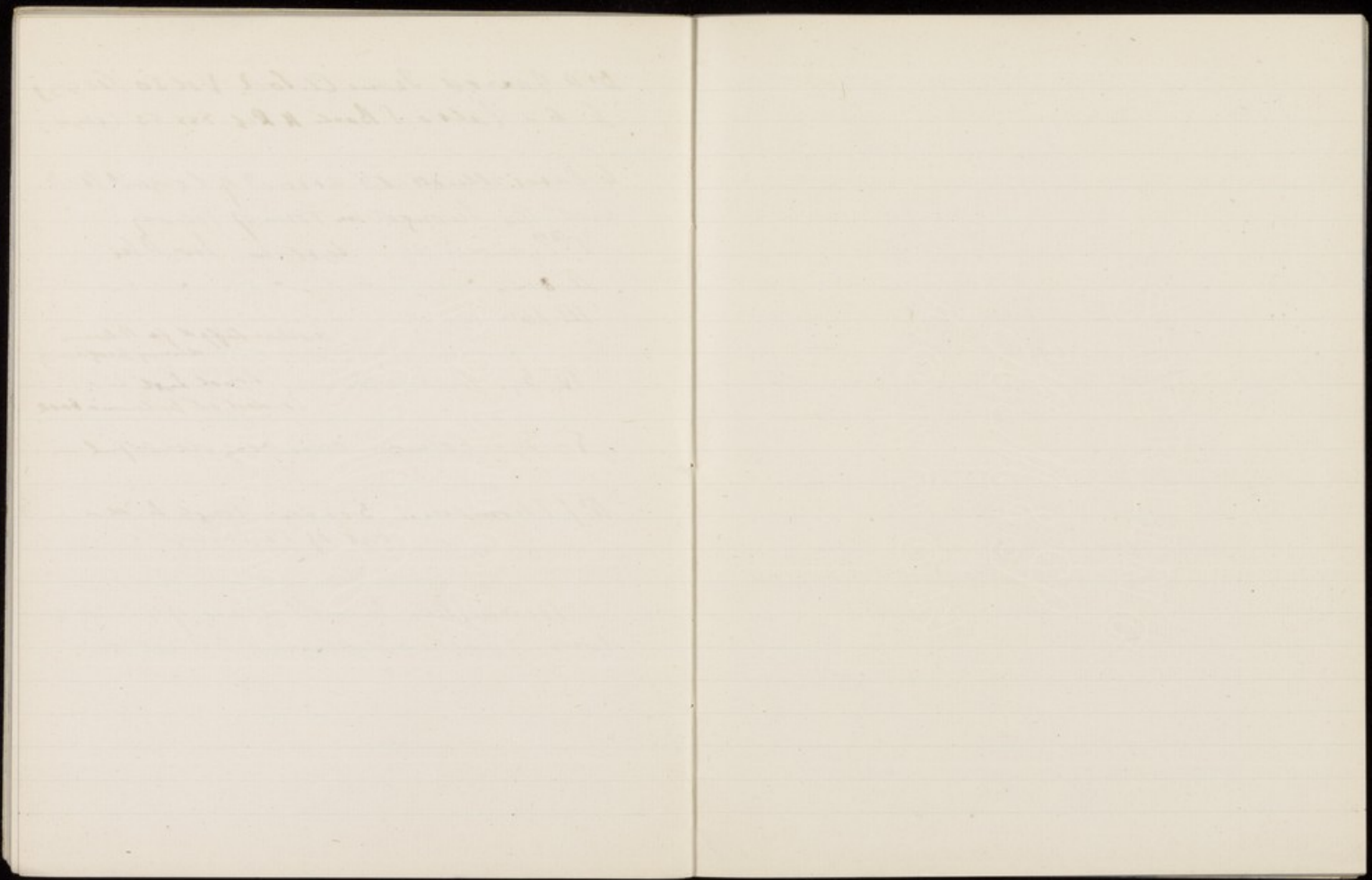
Instinct suff. for Polio
during progress

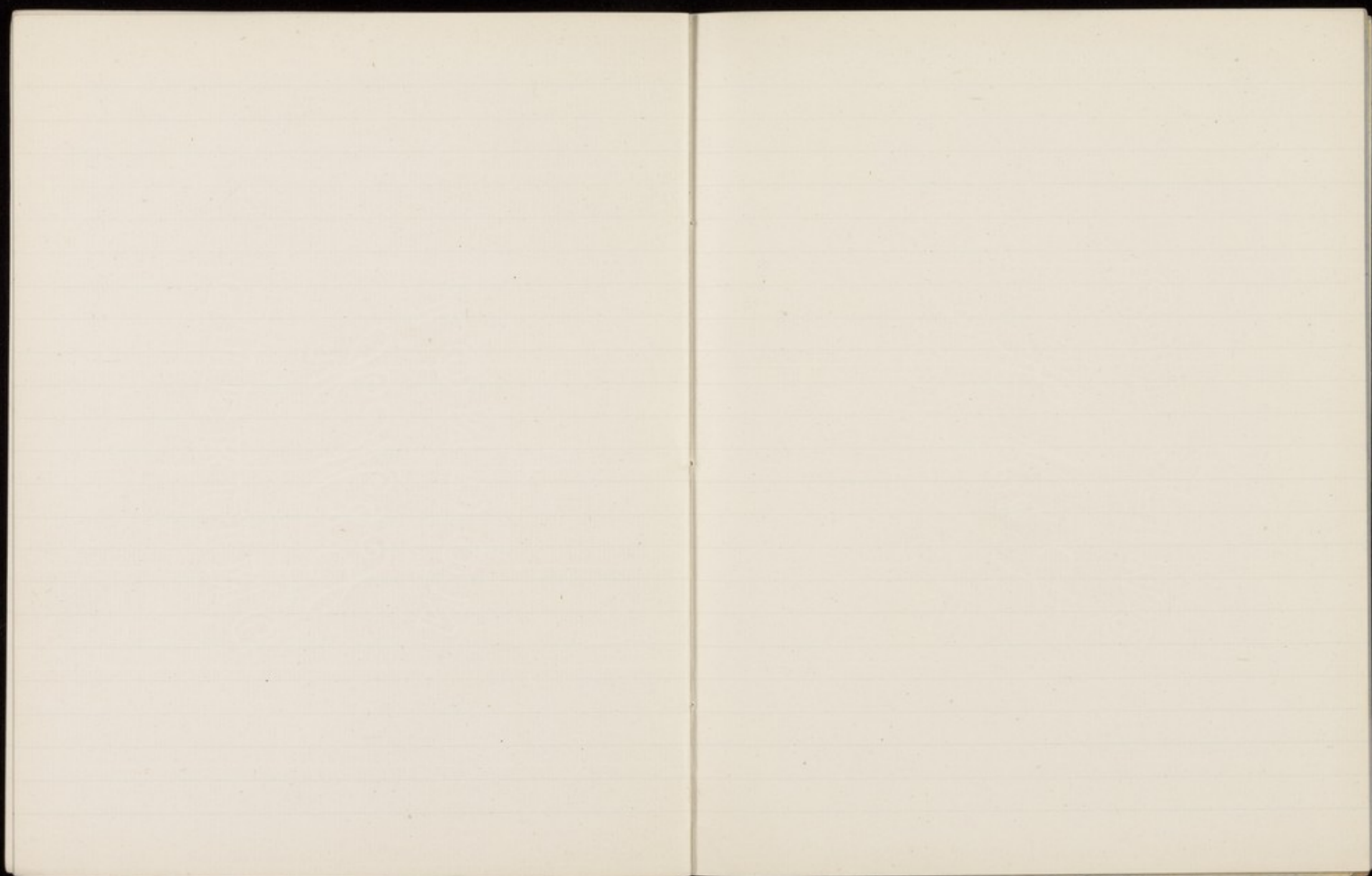
IV. 3y. Rickleshurst. Lond Sept 18.
Lowest at Bulman's base

V. 3y. Colman's case very doubtful -

Dr. J. Thomson. 3 cases - Cong. H. D.
out of 13 Urongotian

Dr. Herringham's case - 1 case of numerous
with Phatic ephelia + heart d.





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