## **Publication/Creation**

c. 1905

## **Persistent URL**

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MS.4584 544001 On Mental Deficiency in Children by G.S. Shuttleworth B.a. M& H. Midical Expert. Rochesta House The itutione for Suprovable Subeciles. Incoropolitan asylumo Board; Con. - Sulling medical Offices, Mational association for the welface of the Feable - muded; formaly medical Superintradent of the Royal albert asylum, hancastes.

In the present carriele we proposed to set forthe some of the Icading Characteristics of typical groups mentally of defective children, I to show their velations to diagnosis and prognosis, with remarks upon their chiology and pathology. In Conclusion we shall opper Some Suggestions as to treatment and training.

The term mental deficiency is intended to include the scored deques of departure from the mornal mental development of the Child.

Classedor

Which are included in the trans I diday, unbecality and fuble minded. . Inces. The connotation of these terms Ecopectively barico Somewhat in The writings of cufferent recognised authorities on the Subject; and of late years there has been a bancostant but somewhat Conquesting Landency in This country - as previously in america - To use the word feeble -- muded in a scuse melusion of the lowce grades of montal defect. While it must be admitted that fuble minded wass, hubecelly and I drocy are but gradations in the Sweerly of mutal deficiency, and respectively denote how a defference how of kind but only of degree, it is Catainly Convencent To retain destand Termo To masts the gradations, but for seculifie and sociological leasons, amentea is indeed The inclusion Scientific term, indicating a generic difference between minus conditions of necestality clating from beets or from

To cashy an age as to preclude any previous definite mansfeelaleurs of mental development, and the dequelections processes of demantia the later lefe ; While his andy , Which Causes a frezonsion of developed mental faculties, though a may occur in childhood, Stands in are Untraly different Calegory. By far the larger humber of cases Of alucutia Esscutially clate from a period autorion to beath. This Statement to of course at Variance with what more Justale are willing to adent, for they are watereally reluctant to recognise ling tendency in Themselves to the production of depective offahring ton Partain Statistics glocer in mistilution reports it would seem that the nou-conquital outrembre the Conquested cases ; but a cloter Scruting of the Statements madely Jusculi, & Subsequent acquaintand with the velations, would dus out tale That the any Cases reported as acquired are the their costace longental

3.

To take our mostance, Eclampsia/unfantile Convultions) is stated to have occurred In 32. 58 per cent of 1200 cases Grammed let oue large Lustitution, but it is very Obvious that fils are readily assigned ley parents as the cause of mental Impactured when in Fruite they are but one of the wedences of unale matal in stability & Feeble mindeduces is frequently attributed to falls, though The true chidogy will pour To an antecedent Condition of Incroous win-- foretsion ability, which is the more important factor. not a few children Suffer from infantile conoulsions with nores alting mental Suferblemant, Mustably the majority have falls even on their heads which , with a prevailly Sound brain , do not produce Francatic unbecility - The princery Clivesion of Cases of Incutal defect he Children into (1) the Congenital or premary } class as the how Longemental, or secondary Lequies therefore to be made with much Ausonin in ation and Canter

How the pathological Handpoul Loudisions of imperfect or inequilar Ecretral development must be Carefully distinguished from those of premature degeneration The latter, occurring carly in life, Ins ty in the fautile paralysis ? Jurduce mental inpublicant heterpering with Enfracting for Education, Which for practical Junpaper may be classed with aucutica; Though Sundar degled. - lative changes at a later pried would tend to chemetalia Looking more closely at the to called longental class of Cases, we thall find that it Hally Consists of two groups 1 org. (a) those due to causes acting prior To buth; [b] those due to causes acting at build. with regard to the first group we have? heccurity consider the hafortand Subject of heredity ; and hi the most accut in vertigations - those

Huotes lunchioes Menology Vol. 1. b. 328 seg -

of D. a. F. Tredgold , who had the Opportunity of Seculinesing by purcouch inquiry the family heredory of 150 depective children is the planfree Casylans of the County of bouchon, it was found that he as many as go fue acut four advare berechany influence Could be Traced - To builted a humber of cases apponds how coce a Elender basis for generalisation; and we Examination of Carebooks, Lasefully computed & revered in the light of Experience, with request to 72380 children tuster the care of D? Fletcher Beach & The present writer at Darath & the Royal albert asylun respectively, guoe the following factors ( in many cases Concurrent) as present in the family hustores : biz: -Phillisical Family History 28-31 p.c. Huchitary Incutal weakings 21.38 p. c. Kerenfacta as splacedo -Spickepsy, or other marked nonroses 20.0 p.c. Intemperance in parents 16.38 -Consauguenety in parents or grandpasents 20.0 - -

Hack Juke's Dict? Psyche. Ined. Vol IL 1. 664.

rolan ogplactio, commonly supposed to be a frequent cause of alequaceasy in offspring, figured but in signaficantly In there shatesers, ouly to the Eftent of 1. 17 free cent of cases in which there were stigmata of inherited Lyplaities, or parental Saytabilies had been as cartained; but presents do not readily aduet Luch a cause, & Enany Efphilite children due before allaining The age for Sustitution Treatedant. Passing to the Second group, those the To causes acting at buth, we fud In the Statigtics above referred to the following figures : -Premature birth 3. 52 p.c. Defficiale buch 17.55 p.c. Further cutal delivery is recorded in 3.31 Jac of the cases, 1 asply rea Excountorum was word (by & Beach) La 12.96 per cart. The 1.51 fr. C. Source accident to the Child Decured, due probably to precipitate Labour, I to ogle for a the timbecile was one of twins. M20.67 p.c. The impecide was the frest born of a family

Did Space prend, it would be Easy to show that the conditions of the Inother leading to premature, defficult Or precipitate particution, were really The original Cause of the brouble; and, his passing the heavy just note that our judiceous forcefor delivery is less havenful as regards mental impourment the the child than is tenassisted under Justouged labour . " runogenature, Which was hoted in bal little under than our fifth of the Cases, Cannot be regarded as a serious factor for the courage size Of the families to vertigated loas more than-five It has already been stated that the how congental ( or acquired ) Clase of cases is unche Smalle than Jearcuts would have us to believe -The more conversant our becomes could the hustories of fratients & their fam the stronger oues Condiction becauses that the accident, the its wess or the shock to which the mental defect is allo chaled, is bal an incident

his word caus I hot the original Cause of the mantal defect. The tale D' Langdon Down recognised the Vices and Juggated the treme Ellectoficial to cover cases Reputed to clate from some crisis of development, 2.9. the first or Lecond deutition, fullescence te-Following the Statessics already guoted we may give, bubyect to The above considerations, the following ple centages : Lehanfic ( infantite Conordisians ) 27-39 k-c Elilepsy ( Darathe Statistics ) 11.52-Repartile be Paralyses. 0.92 ... 6.17 ... Frances at is on ( anging to head) Fright or Shock ( undal ) 3.06 .... Sunstroke -0.54-Fibrile illucioses with bearin Complet" 5- 9 la. We have already remarked on the sig. - Infictures of infantile Conordescous; and Similar criticisens we be appropriate wet Liqued to luciary of the causes scheeleded above. Vocrfreessure as School was an assigned cause in only 0-16 of the 2380 cares

loc lunss how cursorily glance at the Lypical groups hato Which mulally defection children unary be divided . Jour of These have definite playsical characteristics, a knowlidge of Which is beeg helpful tis deagnasis prograsis, but it is not pretended That These are present in all depective children . Speaking gueseally there is a lasts of normal playsecal acodoficient, as of sucutal in this class; and functionalas well as Organic defects Chaucharie their horoous system - Broadly loe may Chorde all mantully defectives into two large classes: (1) those with mother acking heroous systems, (2) those will over acting heroous Systems; in other words White chull & apathetic, \$ (2) the herood I Excitable - In the former class ( 2. g in The cretin) reaction Tune is \$ low : In the latter, Excese is unchaly writable Trueling To Emploses caese, and ill controlle Highly neurotic & Efecteptic cases are unlan

10.

Loant of poroce of sustaining attention projetical is the common characteriotic of both Chasses : in the first, it depends refeor defeat of Encegy, his the second, upon depect of unlichitory power-Perhaps the larger truber of Cases of mental deficiency are not To much characterised by typecal physical abusemalities as by a cheftastuse in Soul way or sther from the Standard of theodoficatal of nounced children of Sunchas lege - In heavy heavy be alucoved - Lation, such as the proportioned features, out standing fronted have lip, and traces of present foctal Aluctures Such as Epicanthic folds. Congenital heart discase, with partichous forance ovals, is list Luconsuon. Then Tocar we faults tio form & finith of the Skulk, & Southing his addetion, of the habeque callery blincher, associated are defects of herental

16-

action - e.g last of taking wotred" is Early upancy, top Heating at the usual age - Which gradually arouse laycely ; and in heurotec cases there to unch recquelai or ill-regulated muscular movement. Such ate the general features of the large group of primary mentally - depectives called by Incland Genetous, but perhaps preferably designated (as suggested by Fredgold / Cases of Sumple aucatia There are , however , Certain types Which separate Themselves from the general ruces of Congental Cases by clestic chine playsecal features. The furst to be tuentioned, us in This The chinemative and Imperfectly shaped head testifies to areas of Acoclopeacut, is the microcephalic . no arbitrary. flandard of Incascencent (2-g less Than 17 inches as has been peoposed is is applicable to these cases , for peculiarch of form Luch as is Seen Les the illust 2 al wares, 2.9 a lafredly

2. Claundar type

12

Ucclug, latally defective forehead, a founded Verkey & flateened occiful, 20 ferender to constantly associated to this baring with crawal dunced ing (Plante 1 3 on theel Frans . R Dul S.NS VOLY Contrasting with this we have the destruded Skull of the hydro. Cephalic Eyler, Sour cases of Which (Man 3) use of later - uterine oregin (Male 3). On Caste de Visite But perhaps the most remarkable as it is the most unepoens, of call Place 4 The types of primary amentia 16 Laste de Vinte) That designated mongolien (Platery) Without concerning ourselves with the theory of Ethic dequeration, Which unduced Un Late D. Langda. Dog Thus To clesiquose the variety, we Cauled fail to observe in English bor. Cases of this type Some pluy singerane. - Cal Us untrances to The clausens of. The Far East. The Skull is a short over flattened posteriorly. The perfected Firewes are offer Obliquely Ich & usually office flat at the bridge with Distanded Carding ( Plate 5 3 boys ) The leands are office as broad as lang,

The fungers being struppy, I the Litole Juque Sometimes incueved Towards the Enq. Junque ( her Plate 5) There are also tequacetary defects: the strin is course, Even furfuraccous. the have of daeleich tent, way in appearance. The uncout inche beauce of the lifes is often cracked, I the long as which is large, hunted with Fransberse fissues Hiresenting hybert cophied papielos . adenocels use frequent. Children of this Eyles from to be more liable them others In Curdiac impersections i in fact The whole bodily Structure potats To a Lack of funsh. another Lype of mental defect with being definite characteristics is that of Georadie Cretinesa, or as Bown coulle clasquates it my scoedunatous ideary " If how attolutely of paris any oregin its Symptoms il costofe to Early in life That it may be classed as Conflectal topeccally as it defends upon formaline

Plante 6,

14.

alefect of the Hugeoid gland - The Characteritics of this type are flow reaction & response, with dwarfed boely, baggy string tuniel Work frequent unbilical hering) abdomen bowed legs, becad squal hands Afeil. The dotschoughater Stault infrancical lata ally is often Tweats a defection over tete of and fout anelle . The wore is those : often retrouse : the lifes lag & the longue, Intarged with Thick and tip par to projecta bajond the tech. There is a malar bluch in more cases. Stadeder Asa were Allord & & guase Growthe is How, the bodily + mental functions are notably relarded a passing repetera may here be Inade to the class of achondroplaseacs musaken Sometimes for Cretins bat not necessarcy mulathy depicient." Symington Y & Thomson depuse lechandroplana as "an absence, areas or pervasion of the normal proces of Enclochoud real vesi. -fication by the most defuncte & mowersal Character in comp Stement of the Skeleton

Symmigton F to which the normal proceed usually le Thomson. Takes place during intra- uterine life " Lat. Ref. h.c.P. Ed., 1092 There are usually intelligent but those. Vot 1 / 4. 238

lumbed dwarps -Before proceeding to cases of poet hatal origin we must look at the group which we may con. - bariculty tischede under The trank Of Cerebral Infantile Paralysis - In these cases the degree of mental Infrancent Varces Considerably, Varying propably with the degree later of uneningeal hoemorchage at the time of built. Buth-palsics" have undered been attributed by Gowers, Instante & others Sumply To pressere & hoe wash ages at the time of buits; but Collier shows that In many cases of defilegea congeneral predisfiosition as well as marked Inaternal States play are important Tole. Cases of infantile coeboal fealing tratually fall into the three Varieties I hemiplegics, fraeafilegics, I defilegics Spartic Coud itions of tunks being found in

Brain . Vol XXII leaus 3 1 373.

Each with degrees of montal unpair. -mont by no menus proportional to the pluysical depects

Ectampsic cases occupy, for the Ectampsic cases occupy, for the Ecasons above-stated, a borderland position between The conquitat of how-conquital class. It is not always tasg to say whether They are the result or the Cause of a daw aged brain, but anyhow we may regard them as Elements in a vicious circle. Guilepsie cases, full berg tunch lunder the same cate. -gory, though the fits may not appear teis a developmental civit, E.g Geond alcutchion or fuborly

Raumatic cases again for the Inort part to predisposition - The Intutal impainment Varies berg tunch in depart cases, I in some lung be berg mill indeed, amounting hickory Sumply to backwardness on Secantoricaly. It Similar considerations applying to Cases attributed to pright or shocks; I to Sunstroke -Incomigeal & Succephalic influen-

- matures of Toxic origin, decurring Sometimes in The course of acute februlo attacks. Sometimes independently, are cloubiless responsible for many Caros of impaned brain action ; whilst others are classed by Bournevelle as due to (1) fraxenchymatous Enceptualities \$ to (2) alrophic Sclerosis. mention must be made of the arrows hypertrophico variety of idioley - To be Carefully distingueskeel from hy oro. - Lephalus - clescribed by Bownecoule us Sclerose Tubereuse - Limite of Space will only permit a passing reference to the familial type of infantile Corebral Acquiration designated almanrotic Ideocy -Various Coulded malformations and deficiencies - frathological us well as formative - 2.9. porencephalus -Can be referred to only as occurring in a catain number of cases of lucatul defed. Oue typical class of cases occurry

ti childhood & youth on though com.

paraticely rave, are of great fullological

18

Jee Jured Chini: Vor LXXX h. 87.

13 Cr 3

intreest, Dig Those of recal years Included under the Format of Judenile General Jearalysis Though descended as long ago as 1883 by D' Judson Bury undre the tube space wand of hereditary syphilitic dementia - h. These cases Endoarticities Luns to lead To Cortical Scleroous & alsophy of beam cells Stronghe the typical sigmata of Syphie - his are hos always to be found them Jamily hestory well genitally thow the Justable Excelence of Such land. Su referring To the types we have Sand but little of the Lucutal Symptones because it will fave space & Consider Them in relation to deagnoses Y progrades Fron we way remark in a general Cases way That Congenital, are indre likely To present Stequate of degeneration that Those Truly accidental, Though the absence of such & liquata is by us means Couclusive of the case being how Congenter Us requeeds proguoses Dr. Langdon Down's loords may be quoted That itis, conteny to what is so of see Thought, inversely as The child is Councey, fair to look upon &

Ober Stant. Volyvin

10 msome - as a rule there is more prospect of unpoverment in a case of I imple arrested development than the our of Structural bran Lese on. with request to what appears to be asimple cases of primary ancusia - ice and most fuercating any tylacon plussical pleatearchy - we shall be wise to hove the points of difference both in filing secal & inental development between the patient & a hormal child of Samelas age , as our deaquosis will have to rest whom the competative retardation of the mantal & books faculties. ababy who close work Take notice at the usual time I beenes to have no desire to hold up its head or to use its hands Defect, is, if not hecapable on account of play secal debility atefect, usually mentally defective. les the time for walking & Talling goes by wethout any Effort the To seve it's hunde Afreak the nature of the case becomes more obvious; I the programmes will defead upon This degree & depet of in capacity.

Inus

Family hustory - e.g interestic unberdance toute also help us . If however the Size of head be worably small - Say at 6 mouther 15 makes unblead of 17 - + the form Characteritic we diaghout miceocephaly and in the case we may prograss fais cloud operat of the sensorical & muscular powers, but lette concentration of Thought & a mental capacity lim ted by the defective developenent of brain. In hydrocephatic cases, if active wischuf have Subsided, though the child is backward in Walking Hallsing, I have be subject to fils, the degree of moutal Impairment may not be very marked, & Considerable improvement may result under Suitable training. In negolian Insteales are not infrequently confounded with Cretino, but They are more Vwaccous than the latter, their skin is not a loose moestiment as in cretinism, and they have more or less obliquely blaced palpebral fersures which Cretins have not, and hrougoes have frequently a well warked Elicanthic fold . Cretus have no thyroed

Gland but sometimes fatty tumours in the porterior triangles of heats. Both have Large longues, Often protending, but Typical mongolian Longues are transversely ferend White the (retur Touque is Sumply Course . The Cretin head is larger than The mongolian flatored officer over the pos? of the and! fourtanelle - mentally the hougol is fairly responsive, at any rate expressing they in a few words in a gruff boice : he is foud of massie & will beat time, I is motorially unotative. The Cretin (Instreated) has been well compared to a toad-like caricature of humanely; Responding very slowly, if at all, functionally in active . as regards progresses the mongol will be Capable of Some amount of instruction by unitation : the Cretin of house until Subjected to Thyroid Treatment, When he will progress more rapidly than the other - But the sange of unfeco. to probably limited in both, I the Sumply convoluted bearin of the heargol Corresponds watte a Sample untilleques characterised by an inter lack of buttalies

with request to the class of Lucbeak Superitile Paralysis the diaguosis is fairing clear & the change progressis, Varying with the Levery of the pluysical Lycuptous, is the many cases much more favourable the and there disabilities wet Lum to undecate -Indeed here plegees hos unplegality Learn to read, & write, realculate, P What is here surprising to handle lools with Considerable Skill . Eclampsic & Efectific cases are

readily diagnosed : The deque of mental implement Varies considerably the hick is ideal cases; and improvement defineds very much inform the cessation of the fils Persistent "petitimal" is some more prepudicial Than occasional Severe fits.

As a rule the mental deficiency which results from the Various forms of heringed I succeptulic inflammation is impassored. As requess progressive in Impassored. harabysis is progressive and usually terminates fasally in the course of four or five years from its ouset.

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I very cuesday glance as the principles Of Treatment and training hunst Conclude this paper - First unprove by all towown with ods the plugsical Conditions of the patient, 2000 oring as far as practicable all obstacles to brain activity that are removeable -Errors of refraction, of audition must be remedied if possable : admonds, presac ti so many cases ( + Especially to those of mongol Lyke) hund be Exterpated -The muscular system must be exceeded and disciplined in view of lourown his capacities, The senses methodically Cultivated, the habits regulated, and continuity of attention encouraged by attraction accupations such as los of the Kuidergarten - Physical and manual training are for thes class the Bly 6 of match the untellegence : for the less defective a modicum of andreasy adapted Labort works - Juck as may be seen in Special Schools will be appro-- priate if due request be hard to the avoidance of fatigue - The lessons

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Should however be many objective, and mill Exceccies of lucurous welliont hutterstanding are works To an unter. Though teaching of twentally deficient Children want be Lurgely will is afreal, it thould not be solitary; and social good qualities are beel promoted by untruction will Other Sund as childrens. no recover a mentally deficient child, of Whatcour grade, is usually hore Early clealt with by teachers butside his own hours, where there to offer hucous crously a prequelescal Election on the frank of the frankeds, how were well utentioned - of course all Engaged in the training op I whether a child, whether secrets, teacher or doctor, much Know level to obtain the compedence of the lette patricel, + to be successful such works lunst be alabour of love.

