## "Hereditary neurosis in Children": a paper read in the Section of Mental and Nervous diseases, International Medical Congress, Moscow, August 1897

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Hereditary neurosis in Children.

By G.E. Shattleworth B.a. M.B. H. formarly Ineclical Superintendent?
Reyal active asylum, dancastics.

(Aucustictouse, Richmond Still, Survey, Eng.)

A paper read in the Section of Mental and Viccoms Disease, International Inedical Congress, Inoscoro, angust 1897.

Thereosis may be defined as an absormal condition of the horomos system tending to disorder of function. Dis.

orderly action is doubtless dependent upon abnormatily of structure, albeit our present means of research do not enable us to detect the precise deviations from the hormal in the minute anatomy of the nerve clements upon which their morbid iritability depends. The

recent observations of Ramon y Cajal, Golge and others upon the relations of the constituent portions of the nervecell throw a new light whom the subject; and, as In william Gowers Umarks, our previous miscouceptions may Explain the Entire Lack of all morbed anatomy of such diseases as Chorea, epilepsy and paralyses agilans, for we have betterto been booking in the wrong place, + hase scarcely yellearned The alphabel by which to reach the words That may perhaps be written in the true locality:

Measonsis, there can be no doubt as to its herediting character. That which is not provided the specific abnormal function; it is the precis.

- position to disorderly action when

Subjected to the nervous Lystem 10 Subjected to sumuli to which it is Specially obnoxious. This of course implies abnormal irribability of the neroe tissue, or to use a chemical metaphor) its constitution is und lable and tends to explosive action. Such action may be produced in a variety of ways - it may be from external Curses, but more often from morbed Conditions within the individual organism . Fught or shock may, in Some rare unstances, be the cause of a Conoulsive seigne in a child of nemotic unheretance: more frequently morbid conditions of the blood, Juck as we wetweste result from the presence of bacterial or auto-genetic Loseines, or from mere improveres hencul, will exect revous symptoms. The

influence of reflex irribation has of late years been somewhat put in the background by the bacteriological I chool of pathologists: yet there is lirduce that in chilakood as any rale it is not an unimportant Jactor in the production of neurosis It is, indeed, interesting to note how predistrosition, Juch as is implied in heuroses, comes into special prominence in the case of reflex irritations. The abnormally unitable reflex centre determines un les hereotie Child the occurrence of Sympetons which do not occur in the non-neurotic child, Though the same perpheral morbid Conditions may Exist in each. Thus in first deutition it is not the difficulty of emperior of the looth that determines eclampsia: it is

The interited untabelity of heroe lissue. Take Eye-Stram again, which of late Justucted a Epilepsy: it is probable that it is only in cases herediland predictioned to newous disease that it is an efficient factor, lye-straum without Epilepsy being common enough in normal young people , we see their That in Children of neurotic wheredown irritations from without, from welling, or from the periphery, are after to produce nerovus des Eurbances; & we may add or psychic in character. Us examples of the first we may instance migrams of weuralgia; of the second, telampsia \* Epelysy; of the third, night-terrors, temper disease, & moral imbecelety. It must be borne in much with legued

To the last named, that mental assorder is " Lin the words of hundsley) "neither more nor less than nervous disease in which ruculal symptoms predominate."

In so- called neroous families we Shall meet will many barieties of nervous disorder. The form of neuroses is not necessarily identical in succeeding generations: the manifestations of herve des order are indeed aft to differ a man subject to asthma- ( Truly a many recures is, though not always recognised as such) maries a hysterical woman. They have a progeny of scoen, five of whom Survive to adult life. The eldest, a Sou, inherets his father's tendency to as thema but grows up a scholarly man, Suffering however a good deal from

neuralgea when he is free from asthma The second child dies in infancy of Conoulsieris. The thered, a son, does no good at school, but shows artistic talent + becomes a painter of mant, though in the ordinary affairs of life, are ececutice. The fourth, a daughter, is precocious, excels in music, but like her molles, is Strongly emotional, & after an injudicions Love affair developes symptoms called by her friends hysterical but really of the nature of mama. The fight, also a daughter. Suppers from night. Terrors in infancy, is higher-consciutions over her school work & becomes remastraice. The sexete, born primaturely, dies a few days old. The Levente, born at Louis interval lefter the offices, is the Lubyest of Mongol Ideorg. Such a family history is typical

in England is is difficult to trace the liston physicion gical pedigress of families after to become scattered over the British Empire. In more sumple propulations such as those of Scandinvoian Countries this can be more readily done, I have collected a number of horwegien family histories ( Some of Which are transferries of horse in Idiocy) which strikingly demonstrate the transformations of heur oses in succeeding queentions. One of there is subjoined.

[Leave 3 miches blank has
for pasting on
funded quealogy)

From the above it will be some that his the course of three quantions showing housetie manipestations, out of 27 persons, there were as many as Sidiotic 4 hundres, to deaphintes +1 epiteptic, attendancy to neurosis fifteen times as great as according to Dahl, his this person family as in the other families of the same family. The tendency to extinction of a despurating family is also thus.

Trained by this puriagree; a subject to exhaustion the training to exhaustion when the present the property is also thus.

hereovie inheritance may be shown by Conquitab imperpetion, plus sical or functional of the higher nerve centres.

of idiols & imbeciles no less than 22-71

for cent (according to the statisties of

Dr. Fletcher Beach (Hack Julie's Dictionary of Psychological medicine Volte, p. 664) 1000 Less transity have a family history of tusamy, & 36.86 per cent of Epilepsy or some other recurosis. Parental alcoholism is no doubt a frequent Cause of neroous instability in the ofpopring, I figures as a cause of fublesmindedness in 19.57 of Beach's Cases & in 13.25 of Shuttleworths. Teething fels may in the majordy of metauces, belooked whom as a manifestation of hereditary neurosis, & the frequency with which they have occurred he defective children 132.58 of Shuttlewords Cases 4 22.11 of Beach's ) Confirms this view. Epilepsy, as distinguished from Eclampsia, fust veurs in children under Leven , a ceruing to Goroces, in 23 per cent of all observed cases, their

being the cases in which nemotice heredity is expecially marked. A family history of Epitepsy or insamily was ascentained in one third of the 1450 cases tabulated by Gowers.

Lestain uberited Constitutional lands appear to have a disturd relation to neurotie manejestations in chilabood. most notable is the influence of a phthio ical parentage upon mental deficincy in the offspring. In the Etiological tuble drawn up by D! Beach + maprescutioneter, Showing the factors of consaction of ideocy & unbecelely in 2380 cases, it was noted that a pultisical family history existed in no less than 28. 31 per cont? Mundsley has indeed argued that a morbid hunors may manifest itself not only he desorder of Susalum, motion or new.

rutition, where of diabetes is the carlier, of phthis is the later stage. The blend of phthis ical & rumotic parentage seems specially hable to produce defect in the offspring.

There is a lyle of newous dequiester, he children, resembling general paralysis in adults, due to whereted dyblilitie Faint: Though This scarcely falls under our dequision of heurosis, ilis of wherest blood maching in impure bacteries toring in the state with the bacteries toring in interfering with the and untilion of the higher necours Cauties, produces in them an abusemal tracability gwing rise to convulsive Symptoms I an incapacity for Sul. - Tamed montal exercion. It is notable alto, Lousangineous pareneus that out of

# Cases of General busalzsis of the young recently collected by alzhanies ( ally. Leitschout für Psychialrie III. fase. 3) hereditary Syphilis was cue am or probable in 28, I in more Thun half the Cases There was also newotic heredily. Consanguessons parentage may be derwised in a few words as productive of neurosis in the offspering only where There is a heraotic predis position in the Common ancesting . In such cases what may appear in Each of the parents as - west magitables ( a high strung" Condition as it is sometimes called) heary assume in the children an wittense four amounting to whillectual defect or such defect of moral control as may lend to communately Leave 3 metres space

Richary arrived at the following Conclusions based upon an Exhaustino study of heradilary transmission , -First, that mental defect is more frequently Transmitted by the mother Thom by the fallice Secondly, that the whentance is more likely to fall enther to one of the sauce fex as the parent affected, or to the child most resulting that parent. He ques furthermore a sequence of hability in unheritance - a hability haturally increased where both paulé us hurotie, or where uliusified by cour auguineous marriages

Du the other build we may ask what wide actions do observed facts & statisties supply to his the way of presention of the transmission of

nenesses by heredily . In the first place The intermarriage of neurotic persons, or of consus of common remotie ances. - try, should in view of risk of where. - fication in the proquery, be considered as represensable from the sociological Standport. Haffely these is a tendang on latures part to restore the balance if out, she be withwanted; & if the law of reversion to the normal Cyle be allowed free play, an ancestral relevante Cucal may gradually disappear. It is much to be desired that matters mating and not only from the sentimental theremany but I would be Looked at from the physic. - logical point of our , & parental Judgotentiality duly considered in the delection of a partice for one of Known tunotic auteacchuls.

another polas more practical; consideration is the mode of up bringing

and education of Children of hereotic wheretauce , as physicians it is one duty to warn purents against the hann that results to nemotic children, who are not infrequently precoceous ? from subjecting is unmature, if over acting, brains to the Strinches of ordinary school education. Jeachers moreover must be impressed with the vivo that Juch children are "Excitable, motable, & muder fuble whibeton control" & that a vouline adapted to the ordinary pupil is not appropriate to them. Un absolute fruction from book-learning in the tacky years of life, with such arrangements as the Kudugusten appoints for cultivating habits of observation, & des Explining the Emotions, is the best system to follow;

and at a later per rod the peruccions peactice of pushing on rapid brane development for the purpose of Competitive examination must be regorously eschwed. It is impossible of course to change the childs ancesting; but by judicious Care inherited neroous weathers may be presented from developing into actual desease. In this age of over pressure, when disease of neurotic type is sofuevalent. it seems specially important lead the Teacher should leave to recognise the signs of heroous overaction and exhaustion; and it is satisfactory à notice that in some countries there analysing is a disposition to co. - Operation on the part of medical here I of those of the teaching profession in improving our Educational Systems.

