A contribution to the etiology of Idiocy

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544000 MS. 4570 a Confictution to la Elistogy of I divey. G. E Stud Ceronthe Ble . M.D. Royal along asymum.

In Studying the Elistogy of I diver & Surveility, it will be Interesting in the first place currenty a glande at the barrow Theories of Causalion which have bed adopted by The leading writers on the Subject . The Ader Sequine (Edouad Sequin la D], The carlied lyste -Inatic water on The Country 54400 nuitement as some of the cause of schowing " Lace . The Dequiration of Executed 10.173. Agans, Coursing hand suctition of The Leroous Lystem. Rickels he requests as an accessory infirming, the a cuase, of whole

In Studying the Elistogy of Patrice & Survicility, it will be interceding in the first place currenty a glande at the barrows Theories of Causalion which have been adopted by The leading writers on the fubject. The Ader Seguine (Edouad Sequin la D), The carlied lyste -Instre writer on The accurring "nuitement as some of the cause of schooing " Her Ider I Continison I Lymphatisation of . Lace . The Dequiration of Essential 10.173. bigans, Coursing hand suctivition of The Leroous Lystem - Rickeli he requests as an accessory infirming, the a cuase, of whory

among + F Curcuin tances under Which a child may be born, or may become, idiotic, la muticai :-192 pound & Ludden Maternal Emotions, 18 These we tunks we more prequent in cities, there is 2. libun of alcoholic liquor (by The huster during bearing. gestation, The liquors being usually Caken To Satury cruoring. Y frequently not per during the 3. Druckenness of the father at the time of chargetin 4 "La cie constance masterelle Wo The Fine of Conceptions, Mortucing hy oroceptudeus -5. Old age of famile, faller especially

1 - Lefterilis, & centrui Skin affection 2. Execution Contract of Compressionals of future & mother. 8. Enfectude percentive prover francis, other children being Frankly he repear to hegged Thanks, insundary conditions to as "agge usulting circumstances -Considering that Sequin publicade his book I Traitement Moral, Hygiene et Education des Ideoli" as long ago as 13166, when berry little was known of the subject, I Thuck his ideas of Elistogy. is not strictly sciencific, show Griesinger, Writing in 1861, refers to this connection with the

4 I dear alseylum at Mariaberg, I in the second Guman Edt This clausie work on Muculal Greening Partiology, devoter served mental pages to a consideration of the Discour Courses of Ideocy. almongst > (343. 30th these, he have shere on hereditary 1-3496 Causes, especially heredetally 350. heuroses; & states That Lucy frequently occurs "us an inducad deterioration of a general Manuages, excessive age or yould' of parents, parented Drunkenness, are referred to as curses of raceal degeneration in familieon another Scrus of causes acts during the fortal percod, tuch as material and mine, any ing + Shock , and the cut and in the

5. Other causes do not produce their effect till the third or fourth, or Even the fifth or seventhe year of The child's life ; & lace, of the herediting, furduce congestice. Inflammatory or other Decauguant of the untrial process, occurranty Sunguincous saturdus utins in the brain Vili lacubranes, + oreg prequently affections of the crawind boucs. Bad care + Mi adapted housishment is Early he face ; made head or comprisence Coverings to the head; the lise of opened; to prive & shocks; the crauthemate to Lyphilis; early spitchery Aleren total Incutal hegher, use cited Local causes of a ministratie

Character, & Expected in Towns "house & chamber miasins," act fraithy upon the fictus, frankly upon the child upter bach, The of creations on this medical buttoring to a secure German with Pastor Scugelmann, Director of the alstandorp I dive "Motophilas" Idiotophilas devoted & Eliology . arrayed as Causes use (11 Large Damachies (21 Cours any curety of parents (3) Drinkenness of parents (4) The male sex. (5) Sugaries & head & Junal cirk (4) Onauism (7) accudents y illusers in high

7. Dalet is quoted as stating that sope. of I dioto bure in same relations : may as unstancing against consciences manuages the prepondeness of idioli the the perior communities of Germany as compared write les ord in les fet put ution; I Kind as Howing That in Hanooce 9.5 p.c. of idioli are illegitimate. the quierd projection of illigitemate birthe being only lo fair care ; also that 29.07 per cent of ediots are In the going of und & Langdon Down have in this country at Various Eunes placed on record than Experience & Spincous as to the Causation of Idrocy. as however I shall refer to their figures by way of comparison with my own, I will now pass to a brief

Consideration of Some Transattantic Statements on The subject. In 1000 Dr. Isaac Kertuilop the Punsylvania Sustitution for the Fuble minded / presented to the Unocation of officer of american Ition institutions an elaborate Pable setting forthe abnormal conditions in the family history of 100 of his fatures for the two antecedent querations. Talling parents & grand parents into the account, he shows that in 56 Ju cent there was a bestory of phitisis In 35 per cent of neurotic disorder, he 30 per cent of intemperand, in 18 for and there was weak muded to In 10 per cent insame relatives, which, In I fer cent There had been consanguing marriciges - Syluhilles is andy noted only

9 In 2 caus. The plan of pushing the Enquiry por canses to the grand parente Spuce ation Lecons & Luce a very Excellent me, Wherever it is practicable Sceking for other recent Statutes from american tources I find that De Rogers of the Down Sustitution & D' Cusion of the hew york Male light for I diols have each andlisted fafeer relating to thotogy, but as these appear to be based upon the Statements of relation only, I do not further reper to them . I must however buffy allude to listan american Statements as & the Causes of Idrocy which are of caterest Vallice because they line been frequently quoted - & Southings mu quoted - rattice than for

10 devote of progeninal flugetuge a afinifing, the is hart to and facheflag tout Tegetific alcounty contest be petered, Though D. S. G. Horse Vous tere thister the CL Then Vacalific Value. In 1046 4-47 Dr J. & How of Boston 4 2 Colleagues love epponded le luquie into the condition of the ideote of manachursels, + then Report based upon Hatutics collected perhaps with have 2 cal the can K set aller har strong Lucque drawn upon by temperance & other Social reporters. anough Causes of I derey given by & How we find (1) The low condition of the Augsical organization of and or both franch " CI Suttingerance of Parents (3/ Lef abuse Genental !!

11 (4) netermanage of Relatives (57 litrups 5 procure abortion . De toros has been credited with the statement that out of 300 inmates of an ideat anything 147 had drucken facule " but I lo us fund any thing to justify the in the Report which say that and of 359 ideote go were the children of druskards ; + bit fullier states Merene have the atorne for an "Known to be of decidedly suspelow founders of 211 had hear relations laskade or Idiotic The Report of the Counciliant Communication At awar up in 1856 1 Let forthe That out of 310 cases in which Un adequate cause to as reported Cours anguinety of farents was worked ti 20 : Epileping is 76 : Lelp abuse in 19: Vicion habits of parente in 9

12 out of 235 cases reported, & of these intemperance was specified in 76. Fuble condition of parents was reported in 33 cases out of 163; Scropulous faining tendencies in 41 cases out of 145; + neuroses in 70 out of 164. Maternal Emotion or anguly was ascertained 1 53 causes out of 108. I will only semanthe worth regard to the figures just quoted that Whilest There was no doubt an housest attempt on the part of the Massachusetts + Connecticut Commissioners to uncertain the Y aquices the for the a character us to secure sumtific accuracy - To a great extent the Statistics seen to have been based upon Schedules filled up by non-- Mildread 20/200Till -

13-Passing word to the results of my non Juse Experience, I may become That although wore than 2000 ideols I unbeciles have pursed under my Jusional offeroation at the Earthwood & the Royal albert as yhurs, I do hot propose to use for the purposes of the paper more the about 1200 cases, that being the unaber of patients of whom I have presty Complete his tories. The cases are not in any way & sected , I belong to all so cive classes, The lucyorily how core being the Children of working beople, a few being of weal these parentage, I paufu cases being for the work hart excluded in consequence of The unperpect character of the Inpormation respecting them -

14 not more than to per cent of my patients are epileptic, orong to The Exclusion from the electure lest of the candidates Known to be Guileptic. These circumstances are Incutioned as they will account in Some ucasure for certain dwaquees from statistics given by when duthouties whose sepercence has been derived chapty from patients of a lugher, or of a lover, Social grade It seems to luce to be a convenient Alan to range the Parcous Courses of Sellog & Subscilly into 3 groups: vy. 1. Canses acting before Buth 2. Causes acting at Buth The la J. Causes acting Lectrequely to Bulle. Under The first head fall the Causes which defend upon parentage I courequenty include morbid herediting

15 as Evidenced by family leasting of platticses, insanity, imbrailing, inter parames, syphilitie taint of contan guine of parents. Huy also include aburnal conditions of the mothers procentive porore from old sign on Sepecified prequances ; I in the same Considered they be considered the inglucies of illegitunacy . Under The second becade come (, Presucetiese buch (2) Different Labour (3) hister · Incutal Ochory (4) accurat at Butto; I in concercion, the relation To undeside of fring quelies top Tronis buch will be discussed -Under the head of Causes acting after birth loc include (Lup antile Convalsions (Elauforia) (2) Efectionen M Other bran Brocard , (2) Fibrile illucions

The chieldlood (4 Pursuly the appentions (5) Sumatione (6) heroon Shock, boy Playsical Lagury. It is the Unarked that in This toped class ispecially, The causes every not hugequently por to be merely the excitante, y not the fous el origo, of the Incutal defict, The Inborn Instrubility of the nervous system Yellong to the Stress of attacks which loould not benoe their wark in the Cure of original soundness of mental Constitution . D' Langton Down Calls Luck Cases Developmental: others are clearly accidental, three being included both in groups 2+3; Whilst Group 1 - in my ofpinicon 12 fur the largest - compreses the Congeneral cures, not always 1 Mors Cover, 20 coognessed as such by the placents,

Upon These principles we may labalate The Canses of School, & Subicilis as follows. I Courses acting before Bull Family buston of (a) Publisis (B) Insandy a (2) Intreday (B) publicity [] [] other heurose]] (2) (2) In Camper and (Parala) (1) (2) Syphilis (Partal) Conscienquility of Parents. Clonormal Loud " of Inothice During Gutation a Physical (Sumer or injury) 6. Durantich (Fright or district) Old age of Saund Illegitine ay I Canies acting at Birch Prunoquelice Premature borth 920 Longed particultion a Protente presence b. Forceps delivery Crote occurrence of asplussice Meonaloum accident at Built I win . bralls .

18 III- Causes acting after birth . Supertile Conordoions (returnpris) Brain Discus (Dy Drough ? Then getis) Hickepsy . Junity Stread firm fall, blood to Fright Sund Croke Febrile ilsucues - mendes Scallating wigh where ping wigh Small for in D'enging a land alestories m Del forte une and selfor not attempt I fin a Specific Cause for Each, as I believe in Inort ip not in alle) there Li a combination of lauses; and it Leuns Is une a corser filer to such out + labulate The Various factors which Co. operate in the perduction of celiory, I to thow Their comparative predalence. Correquently the unuber of Causes

forthe will in the aggregate creat The termber of cases amongst Curses acting before Birth They confirmed leads the to give the first blace to a phitrisical family husborg. In us have the an 24.25 per cent of my Cases Luch a hustory Exist. D. Down " mutal affections States that he found a marked heritory h 64 of the descare in 25/ went of the fathers, + 20 per cent of the lastlers : I have not discriminated above between the parents? hos have I rectored the factor twice When the taut exists in both . A. grather gives 22 us The percentage of philtisical Ougen to history in his Earlswood cuse 11.1 next in order comes a history of Indication of Interited Laculat denance his figures que a prescentage of 15.12 with funity history of meaning, 1 of

20 4. 9 per cent of family lustory of habecility, equivalent to yether To 20 per cent of underriled mental Weakness. Dr. Down Speakes of 16 per cent on fathers side , & 15 per cent on Quotur's succe ; + Dr. Gradians refers to 10 per cent of his cases in Which heredilary taint is adructed. Jarental alcoholism is, factor here in order , factor 13.25 of my cases, according to the bist information I leave been a able to obtain, not only from the parents the unsclores , but to many Instances from Less particul testimory This corresponds chosely with the Statement of D? Down that in 12 Off-Cit" Jus cent of the Fallins, I is 2 prese 661

of the Inothics There was avoured I notorious intemperance" to doubt If we were To Jush back our Enquisies Thereagh the grant farmental generation. I scentinus the habits of b martand (10 quitors (as D' Kerlin has done) our free centrages would be furtrales not be very different from the 30 per cut which he gues in his Eliological Juble published in the . "Proceedings of the centor" of offices 1 150. of american Institutions for I devis I have already discussed the Influence of a syphilitie taint u a paper communicated to the International medical Coregen at Washington in 1087. I stated Therean That in very safarcace both at Earlswood & the Royal albert asylume the characteristic signs . .

22 of tulerited syphiles was rarely These with amongst idiots, though the could not help theiting that loute a more complete Kunstedge of parcatal hatomes it might from to be a rune common factor In The arrest of Circland development there at present appears - write Ipecial attention ducked to the point I have however so far lest been able to asculans' the excelence of Supplicities trained in more than The out of my 1200 causes, a proportion equivalent only to 1.33 per cent. The the unapointy of These cases The mental deficiency leas not been horierd lutit the age of the second Mentition, from which time gradual dequadin has tusued probably grown attraffice che unges due to building

aliminiched calibre of cuebral acting HThickening of thembeauer -" The relation of mainings of Cours auquinity to treated und our drees formed the Subject of a paper 2 lad by lace at the Bragelon meeting of The Butich Incal association to 1886. My conclusions them were That our Case-Books furnished. In the parental hestory of too unbrede 5.1 per cent of Consanguencous marzinger Hundred in these 1 2.9 per cent of first- Consin turnings I see that D' Down states that Op Cit? 4.94 Whilst in 1866 and Laumination of P52 cases gave a precentage of These cent totes were children of Cord unguine mis underlages) 5.4 Jus Lout Children of first con notes of 400 Lecal cases que

6 2 per cent of the former, \$ 4:75.0 the latter, class . Jaking how 1200 Cases Into consideration Instead of goo, I find recorded To who are the oppopping of consauguincous maringes agains 52 previonaly, 1. 18 in the additional 300 cases . Were we to consider the Children alore, my percentage would be exactly & per cut, not brey different from D. Down's her recent Statiotico. This however does not seem to the a fair way of dealing louts The question of consumptimeous marzuggs, in abunch as 4 of my 18 cases are children of the dame purchage, Y consequently 15 ruly of the family histories have to be compared with the 300 m estimating the frequency of Cousies

unarriages amongst the frances of idiots . This would give 5 fee Cent of consunquincous manages to lugace desies of cases, against 50 man an age age and a st 5.1 in my prederous scaces, a remarkaby close correspondence . If however we simply consider the percentage of edior children under care who Card a second and and and the second as the are the offoring of consauguineous marriages it will be higher, ors. 5. 83 pa cut, 2 70 out of 1200 cases. I have no doubt that were I to hechade also unbecile brothers & Justices of my patients who have not been under my care, my percentages - hay the second second would be quite as high as D' Downs Passing how from causes connected with family history to Those more pressound to the parents, We have first to consider abuorun

26 Conditions of the motion during gestation. Of course we must despe "Eum grano" mende that mothers lett us on the subject, + not hegled, In consequence of presumed information to carry our enquires farther back; yet I think in a cutain number of Cases we shall find good ground to between that maternal clibilities, litted playsical of mantak, live truly responsible for the imperfections of The offspring: my statistics give 21. 4 as the percentage of such cases, mental abronnal port, including worry fright the, being about 3 times as humarous as defussing lauses of a Jelaysical hature no dout the influence of the fatter's state both mental &playsical at the true of the procreative ack

Usulting in conception is un important factor in the production of ediocy. Though it is one not Easy to settimate. I must content myself by stating that Shave Known instances the Which the temporary mental cond" of the fattice, areing from business auxiety & worry, I seems Le Moncian Lectures Je. 83 . To have been responsible for begetting The are how had al together 12 Speradic an ediot child ; & D. Down, as is Will Kurne, has adduced widence oretrees under any case, I see the majority In favore of one particular life of there was reason to believe, thus they were Laloay - the sporadice cretici - bring procented during the interrepresence of the Often anocalich will drankenness father, serve of the later ones could not have been forcereated under early other In procreation - The old age of the Condition " Father has secured to use in Louis few Cans a cause of ideotic oppopung; & the mongot typic of Litro ay is in May experience prequently connected with The advanced and of the He others. more than half of such cases, bring the last children of a long family.

20 Sie arthur Mitchell has land Sour Stress upon illegitimacy as a cause of idiory. Statistics upon This point will receivery differ considerably with the Country + Class from which the figures are Maure; & my own and notes give barely 2 per cent of illegitumate het. Children amongol our fratunts at the hoyal albert as y lune - In one auch case it is alleged that tight-lacing there pro. resorted to for the purpose of matking for appearances was the cause of the child's imbecility! Of course one would lepect Smotional Causes Specially 6 Co. Come wato flay in illegitimate cases -Klad Juys That in Handoce the parametage of Magitimate I diots to 9.5; Whereas the general proportion of illegitimate to legitimate births is 6 f.c.

I have included unorgot Causers acting at Birth " - Premature Buch. of course this may be due to some of The cause stready considered, Luchas material actility, or the puchance of a sylchitetic tank ; but in Some instances probaby the bad start and a general second and be a conserved In life, course queux repor prematures latery into the tradeles of this lotary world, may account for a backward Condition of the lat dectuch for ours, anounting to undecidity. Luch cases have an aspect Upendring that of idente of the mongot Syles, & are often flabic playsically aswell as medally 3.0 per cent of my cases were prend - Tiney born . I hotice that attaupts to procure aboution are debited in Certain american statistic's lath a particular as legel and have a the production of Ideory .

30 Infortunce has been attached by D. Down & other authorities to the preponderance of frist born clubder unouger ediole ; 24/102 cent of Mi-Cel 456. D' Down's cases being principatous -Remarks K D' Gradhan states That of 1100 1.5. Cases at Latterood 23 fill cent of The makes were first born, \$ 25/p.c of the females, a result contrary to what one we repert were the cause Simply due to pressure in farturition For my own part I am not clear that prinoqueties is to peritous quea the per duction of mental defect as has been suggested. They owne cares fumish las than 20 feel cent of first born children , Which will be about the and to be expected Farking an average family as numbering from 5 to 6 children -Ch large precentings are undoutledly last bound

31 Protoreged particition is doubter a considerable factor in the production of ideocy, Though I cannot from My our statisties give a large proportion of cuses Thean O per sent. by these the large half (4.75) we attributed to protracted prusure Without instrumental and interference: 3.25 per cent were attributed to Forceps delivery. In very few of the latter horseone were injunis noted there to the use of the posselps; & I Thuck we may fairly andude that the potonged particulien was more determintal them the deliving by forceps. I have found it dificult to ascertain from mothers The frequency of the because of alphymin reconstorium, which Ded. States at 20 per cent amongst idios

32 generally, I amongst Those who were first town children, 40-per cent? This corresponds very closely with D' Gowas' Section and That of 26 luncer alf 14+21. Caus of Cerutral birthe paling 16 were 80 fuit born club drea - The injunes found are due not merely to dued Compression but to rechanceich 5 asperyment angestion; & where death luques sarly, menniged hourschaft is found on the concrete of the beain, Theokest over the central good, I in house Stauch Cases with actual contract Lacaration . hut amere Cases that durowe ofthe Lupper from 95 general conservisions orming the first few days of life, I at a later piced spartie Contractions of the Linds, with hacoordia I with cloud her courseals, use observed Low atroppy of convolutions in the content 24 gene is formal in These cases .

33 Occasionally ideo in is attachated to Some accident happening at buch, Such us injung to the head from the presignate but of the child with a chumber for in a sudden labour , 12 to le men orale age fine the unobilical lord . Juch accidents are alleged is 2. 25 of my cases . Twin birth is sometimes wated to be the came of a child's ideory , the mother providing bounding to the perfect Turn as a proof that unbeating was not with erent to the Conception . 1.41 of my cases are trous , & in about out-foreth of these the other twin Causes acting after berth are more could mighty alleged by the friends than Conquisted Candel or my to the stigned here consider

34 attaches to congental depect; r In consequence cuntin is herded in accepting their Statements . lefter Septing the information ut my command Thave come to the conclusion that about 65 per cent of my cases are of Conquital origin, & not more this 35 The cent accedental or acquired, though upon atim tendered by Juneats we quie the preponder and to the Latter class. les D. Dourse had ported and fre inscate tudency to brain defect may remain latent until Lerve crises of decortofpencent, us the frend of second dentition or of funderly, & such caus he clause as developmental -The most frequently alleged Cause of Schlorg & Subceching is undoubtedly Estampson Capantile

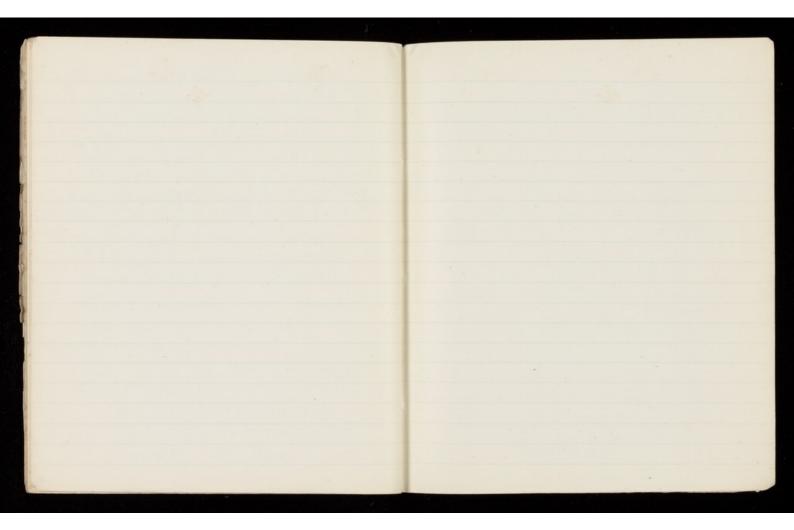
Convalsions. To this cause hearly one- Trend (32.6) of my caus are attributed . In many however this are other contrabutory causes; Allie Consideration always laggest they how many did drew Luffer from Lover Consuls cons clusing tecting + yet escape being idente ! Bran Misease of an active hund buch as acute ty roughabus, I other found of high ammatting of the brain or its Incontranes, are recorded in 57 2 Cases (4.75) for card, whatse What the parents call "a stroke" Decurred Luckdenty in 15 (1.25/1.2). In gg cases (8.25 Juncent / there was hestory of severe myney to the head from faces between on, falls being often from the cours of a careless nuese or elern a flight of stans

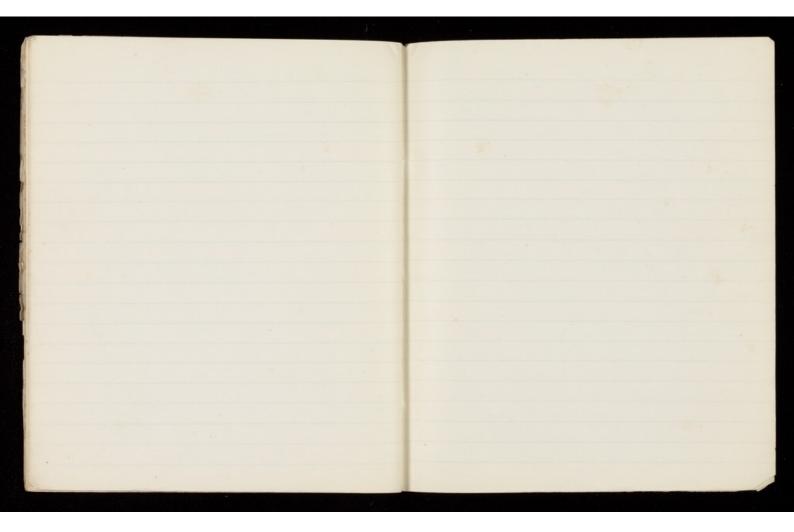
Fright is alleged us a cause in 27 cases (2.25), & in about least has been immediately followed by fat. Simstroke has been given Solvine as a cause in & caus 1.66 per centi the majority of these being children from India. Flbrile Muces el tuch as Scarbatina, Simult for. Whooping wough & lacastes, we Juice to account for as many and liquants [q.q/mant], 2 brain Symptones being unsulated write the majority, I he the see General defect of mutrition appoint Cansing Cerebrah attoplay - Itic a little Unackable That in these Cluy of forced Education I have Only hist with 3 cares in Which over-pressure at School has been . . alleged as The cause of the morecelety

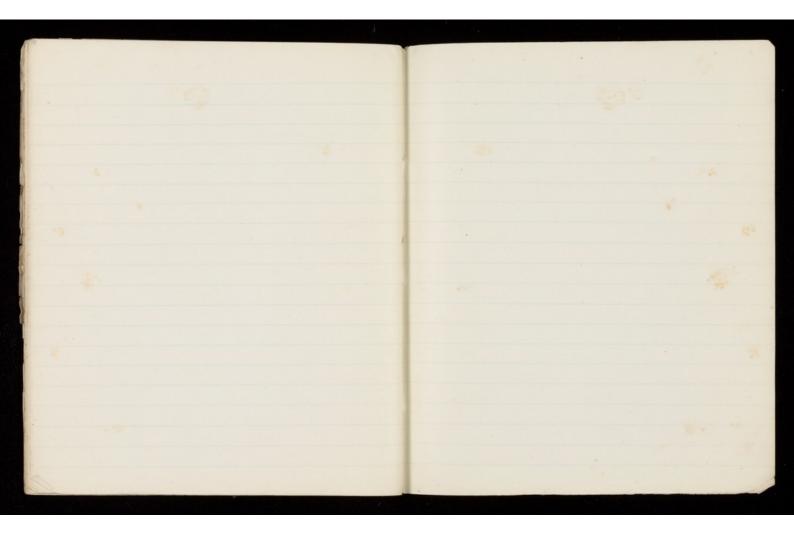
37 I have now concluded my necessarily Somewhat cursory review of the factors which our CaseBooks sliow are Contributory to the Cansation of Idioa I thruk it more pludosophical to State merely the comparative prevalence of these factors than to attempt as a rule to assign an indurdual Cause to an inducedual Case . There are undeed but fur cases in which one cause only could with any degree of probability be assigned. In the great majority we find not aly the "clamnosa harditas" of morbed tendencies, but a combination of circumstances, in many cases avoidable by the parents, which Sums to determine the actual occurrence of mental degeneracy in the offspring of the anyon these

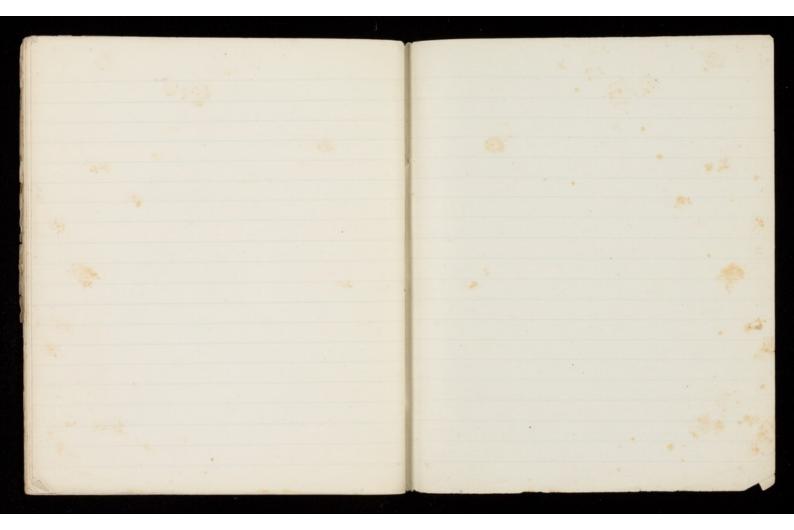
circumstances can be defined with any degree of certainty, thousted out for public information, I Think une raison d'ètre of Such and Institutions as that whethe with Which I am connected well have been Established; I it is only by patient engining extending over a long serves of years that any Trustworthy results can be arrived at - For myself I feel that the publication in annual Reports of the Causes of Ideocy & Imbecelity In the Cases received during the previous 12 months is of Comparatively letter value, by i is only by making the preval acquaintance of the relatives + forming an openion of Their condition, rather than by merely

accepting their statements that our can arrive at Sound couches was respecting the Étiology. I am very conscious of numerous defects in dealing in this paper write a mais of Statistics accumulated after 26 years sepercence, but I thust a at any rate, the introduction of this subject in conjunction with D" Hertcher Beach - may give rise to an interesting distussion.









men ja article Beach's Jables to be invited sa compressed form Phillipisis (p. 9 Beach) 383 cases out of 1180 1180 / 38300 (32.5: = 32.5/1.c -(24.237.c. GES 12) 291 3 24.25