REMARKS ON THE

PATHOLOGY OF

PUERPERAL ECLAMPSIA,

A thesis for the degree of

MD.,

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BY

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Surperal Eclampsia

is a subject, to which for the past six years I have devoted a good deal of thought reconsideration.

Ont of my jost obstetne cases, while assending the Glasgow Maternity Hospital was a case of funperal Eclampsia.

Since then (1886) I have unt with it in private fractice, and while acting as Resident, in charge of the out door department of the Glasgon maximily chospital in 89

My lime, however, has been so well occupied

That I have not been atte to give the subject my
inclivided attention, many circumstances have

thorough
privented so careful and consideration of the

subject, or even of inclividual cases, as to

disireable.

I Endeavour lo set forth whe following Essay, any ideas I may have formed on the subject lly own experience has been so limited, and opportunities of observation so few, that I have

O. John Stuart- Mil

D'he Samer rang Obstetnies: Lawin. p. 250.
Young I Sensland.
Eduburgs

been computed to avail myself freely of the Experience and usearch of others.

At the outset, a difficulty presents itself in regard to a Definition, this deficulty arising from our want of knowledge of the pathology of the Condition

Thur cannot be any agreement about the definition, tell that to agreement about the thing ikeef"

D'Éclampsia : - Sunperal Eclampsia : -

Eclampsia is an acute disease, occurring un women, in prequancy, in labour, or in childbed, often sudden in its progress, characteristed by convulsions with loss of Susation & Conscioueness, Endoring in coma. "(Bailly)" The sudden onset to indicated by the word Eclampsia - Ex hap Tw- works ont. We flash"

@ Sir James y. Simpson in 1843 called allusion to the fact that the convulsions were usually associated with an albuninous condition of the wine: the relation of these conditions had also been the subject of study and investigation, published by DI Lever of London in the previous year D' Simpson suggests, even here, that Celampsia, unstead of being a condition O Secondary, to unal disease, that, "the dropsy, the convulsions, and the albuminumia, many le "smullaurous à successive espels of Some ont central sause, biz:- a pashologueal state of the blood, to which the occurrence of prignancy in some way piculiarly predisposes on my own experience, a careful Examination of the wint has always given Evidence of the presence of albumens (in one case though present in the morning. Examination next day failed to detect it) Albuminuria is The rule, but Even der Junus Simpson admit that it may not be present

O Lawin: op cet. p. 258.

De Professor Parvius synopsis ishore followed of al. p. 254.

& Kussmanl Duncet on Convulsions to huw Sypenham Joseph 1859. 6 Charpensen has collected 141 such cases; but these spengelberg excludes from the Domain of Eclampsia, calling them Eclamptiform

Defort Enjuing on the subject it is necessary to consider some of the various theorems which have been advanced.

I that the condition is caused by benebro
spinal conquestion:

This is ont of the Earliest theories, but now it

incognises that these appearances are rather to

be regarded as the consequence, some than

the cause of the convulsions.

The treatment was derivative: Uniscetion.

The Experiments of Morshall Hall, assley

Tooper. Russmanl & Jennet, Showing that by
bleeding animals to death convulsions were
produced, and the fact that we death from

Purging. Low dies

haeucorrhage, convulsions similar or educeal um mot of telampsia work produced

I General or Cuebral anaemia, adopted by Frankt and Rosenstein and further elaborated by theme. They held that the convulsion was the usual of the Cuebal anaemia, and that the anaemia was the result of a berebral Oedema. The hypertropheed heart of pregnancy, acting in the hypraeuce patient, the resulting high argual tension relewed itself by a sersus Effusion, which by compressing the cerebral arteries so causing the ancienia. Importunally for this ingenious theory, the occura, which is assigned such an impostant pay in its production is not always

Of Augus McDonald's theory so an assempl to harmonist the foregoing theories. He argues thus— The cranial cavity must always be full, anairma of the dup part must be countribalanced by an overfulness of the Superficial veins in the cranimum Mac Donald's Meory is, a combunation. of

II Conquestion and Audience

a. Conquestion of the meningus rengorquent of
the vinous sinuses on the inner aspect of the
cranium and spinal canal, resulting from

B. An Anaemia officing the desper postions including the collective motor centres whe cord causing a shrinking idininution in buck of the parts so affected, which is made up for by the conquestion of the meninges se.

The anaemia is produced by the cuculation of a loxic agent in the blood.

(In a postmortum examination which I saw D' R.M. Buchanan make in the Glasgow making of Sopisal, on a case of Sunpual Edampsia, thise were the anatomical appearances, but the dina mater was calcified, and Especially over the frontal lobes was morbidly askerent to the calvarium there were unequivocal signs of tertiary, saphilis supplies.

Lawin op at. p. 255.

iv Eclampsia is a Neurosia
advocated by Sylv Smith .. who remarked
"Su conclusion, to give a summary of the whole
Subject, the true purpual convulsion can only occur
must the cutal organ of this system, the spinal
marrow has been acted upon by an excited
condition of an important class of incident
news, namely, those passing poor the utilitie
organs to the spinal centre, such excitement

defending on pregnancy, labour, or the

purpual state.

Mile the spinal marrow Newains under the influence of Either of these stimuli, convulsions may arise from two series of causes— those acting primarily on the Spinal manon, or Cutine causes; and secondly, those affecting the Extremities of its incident nerves— Causes of Eccentric or pripheral origine"

Sawn op en f. 256. Medical News . May. 1. 1886. Cassilo, Year Book of Treatment 1890, p. 238 I Eclampsia results from a poisoning of the blood by which it is rendered unfit to act normally upon news centres - the theory most querally accepted, and the origin of the forson is also quinally regarded as arising from failure of the Kidneys as nearly stated by D. Lyson "The majority of cases of fungual convulsions, associated with albuniumia are due la acute rephritis. Elsenhore this Eminent pathologist has said Brights Disease which I believe to undistie the large majority of suious cases of purperal convulsions may Either be present as the line the woman becomes pregnant, have preceded the pregnancy, or it may be acquired during the pregnancy"

Vi. I has been suggested by D Emile Blane of Lyono that the disease a due to a specific microbe

Lections on Brights Oriense by Robert Sawadby M. W. Edin. John Wright + Co Bristol. 1889 The theory that is querally accepted is that which accepted is the white the presence of albumen in the wrine clinically, and twidence of kidney leison usually found by the hathologist, indicate a relationship between this disease and Mainia, so called.

That these conditions are similar is quivally recognised: that they are identical is by no means admitted.

But surely discussion on this point is comparatively notless. How can we determine the identify of curain conditions, if we are not cutain of our standard of comparison?

We are not in a position of present to Explain precisely the pathogenisis of the So called Thairmia. It is plain that the Clinical phenomena vary, and that there are many poisons to which these symptoms may be due"

(a case of Buladounce porsoning sont a temporature of 110° musted un Neals Medical Digest 376-4- Ledges Suith No London 1891)

Pathologists art not aqued as so the exact conditions necessary to the production of Maimia. Here also a loxaeura is readily admitted as au actiological factor, but whether it is primary; or secondary to a rural leisou is not clearly determined.

The conditions in question resumble rach offer in their varuely of clinical manifestation, for Surperal Eclampsia, like Maierria, has not a constant clinical history.

I has been stated that the course of the temperature is of use in the differentiation of the two conditions.

In Eclampsia there w, it is held, a progressive Elwation of temperature, even up to 109° F. (Bournevule) and in some cases the temperature continues to rise after death.

D' John Brown of Govanhill incidentally mentioned to use a case of Jumporal Eclampsia, which he had met with, in which the temperature, half an hour before death registered 110° F: a similar temperature was mentioned by D Galabin

British medical Soumal. Volj. go p 133/4. Galabier reference abort Manual of Parhology. Joseph Coats M.D. 2 nd Edul. fr. 35%.

in a discussion at the fondon Obstetrical Society. when this point was under consideration. In Maenia it is held that the tumperature progressively facts, and subnormal readings may be shown by the thermometer: quilé au opposité course from that of Sunpual Eclambsia. The very high surperatures in Jumperal Edampsia would appear to occur in the unheated pases, Chloroform or Bludwig Especially counteracted if Determan pointed out, from a sludy of ouch cases that no pelation could be made out between the temperature and the number of Jets. I awards herry be correct, and is apparently has some grounds, viz: has purperal Eclampsea is a strike on the part of the organs of Elminiation, the glandular structures will be on sinke as regards their hear producing Junction also, for hear production normally is associated with the performance of their special function But in pyriscia the heat is apparently produced differently powe the process in health, for we may have I wish glands on stirkt and with Maxed museles. & Coats explanes that

op. al. p. 354.

in pyriscia "the production of heat is due to a destructive combustion of the lisours, and is thus abnormal in its method "It seems more probable that a morbid agent in the blood directly induces this change in the tisours" the farenchymatous changes. dequeration or cloudy swelling would also go to suppose this suggestion of l'oxaema. for it has not bem found in cases of high simpuature (acute premioria) and it has been found where there has been no pyrixea indicating that the ducet action of the Super-healed blood, is not the cause as it has been plated although the method of heat production may be abnormal in pyreseia, the source of the heat is the same: It indicates a biochemical change in the muscles and glands. In the building-up or nutritional processes going on in the protoplasmic culs of the body, Energy is rendered latent and stored up - on the other hand, disintegration of complex molecules means the liberation of Euorgy, in the form of News Evergy- Steat elloture or Electricity - and Steat is the least spicialised of autorms of Evergy and is a

Broadbuh. B. M. Jon. aug. 9. 90 p. 317.

00 DO 60

a sort of pool from which they may be obtained, and into which they teno to return, whether Stead to actually as well as potentially absorbed in the building up of Structions we do not Know, but from the fact that almost are forms of observe are allusted with an Elevation of temperature it senus clear that when the nutrilive operations are disturbed the Energy which should have been fixed in building-up of structure is liberated in the form of heat" on disease the mechanism for regulation of temperature may still control, but its indesc instead of being set at 98.6 is pur to the higher figure of 1012 or Even higher, the diumal variations of temperature still Exist. This heat regulating muchamom & Gandres, in this connection, compared to a stringed instrument_ usually it is timed to A. but we might truce the A string to a higher note; of B. or C_ meaning an increased tension of course on all the strings to pus the violine in sune, the same fuigering wie produce the oaut melody, historio higher or lower according to the Key note.

British Med. Soumal. 1/90 p. 949

Laroue. p. 257. (Hyppolités rouets)

Samuely on Brights Diesas (1889) p. 253

Very high temperatures are registered in Detauns and in Hydrophobia, and in these diseases as well as in Juerperal Eclampsies. Must may be a polmoseu Elevation of surperature "probably due to the continuance of the action of the powers on the thermogenetic part of the second level after the death of its motor part" (Stale While) In a case of manue convulsions seen by me as the beginning of this year, the semperature was elwated, and shortly before death the thermometer indicated 107° F ~ on Explaining the boys illness to his father. he informed me that the boy's mother had died, at his birth of Surperal Convulsions Lyrescia hu may and does ocem in Mainua, in this case the rise of tunquature was progues we until death Subnormal Temperatures have bem recorded in Eclampsia, and Bourneville from cases of maine gives very low thermometre readings of 93.1. 91.1° - 89.6° and Even 86.1°

But some cause can often be assigned for these

low figures, Eg. They occur in old people or in

op. cd. h 69.

chronic cases; m cases with complications, romiting or diarrhoea; and many of the cases are not "Brights Disease" but are secondary to obstruction in the rimary passages, and in such convulsions rarely occur. Samuely, reognises those as a distinct clinical type, with which, be compare funperal Convulsions is hardly fair, the essential symptom is the Eclambria.

Eclampsia.

Sunperal Eclampsia io, may be regarded as ont of the clinical types of Maemia (so called)

As symptoms and signs vary: albuminumia is not recessarily present.

I is the Mainia modified by the conditions ficuliar to pregnancy, labour the purposal state.

In pregnancy the digeotive organs, are affected more or lies. Morning sickness is so common as 10 be regarded as ont of the signs of pregnancy the fiver and other glandular organs, are found on protonortune examinations to Exhibit Eordences of a change in the protoplasme of them tells of the rature of cloudy swilling," and motival of being

IN Byen M.D. B. Med Sonnal. Vols, 90 h 687

Farm op ev: p. 236.

Pathology. I Coals MD. 13 Edis p 642.

Lander Bruilou. Matura Medera + Thetaputres London Machinan + Co. 1885 p.15. group 5.

p. 352 action of Drugs on Degestive System Uycoquie Twelon of hors

p. 650.

h. 362.

h 364

mall cases due to reflese actions, it has been suggested that it, is in some way connected with the changes obsuved in the liver cells. acute yellow atrophy of the liver, a condition peculiar lo pugnancy, is associated with an uncontrollane form of vorniting and "obviously dut to the action of a morbid poison cuculating in the blood" The lover changes are identical with those found in Thosphorus poisoning, The other members of the Saut chewical group. autimony and Asonie product similar change, insufering with the glycoquie function of the lives and turding to product fasty dequesations of the hepalie culo. Saviar Emetic produces Emesis by is action on the romiting centre with miduela; (maquidis), ils local action on the mucous membrane of the Stomach, usually a factor is not necessary. the action of this chewical group to condenced by the production of fatty dequesation in other organo than the lives, and opicially in the muscles, first Albumunous Sulstanen E.g. Lencine Seconsed by the Sulstanen E.g. Lencine Sulstanen E.g. Lencine Seconsed by the Kidneys

Leishmand . Lystem of Midwifery, 1880. p. 153. fig 18
Sawin of. col. p. 161.

Manual of Annau Shistology. Volis. p. 258.

By A Nöllikir. Syomham Society. 1854.

DByers. B.M.J. Seps. 26. 1891

Vomilieg is a form of Convulsion, its occurrence in the morning is because the the nervous system is refushed, and the centre most excertable

The gravid userus is much larger, and heavier than the minipregnated. The much corpuscles increase in size and rumber; the capacity is increased, and the functions entirely actived.

Corresponding to this, changes take place in its rascular system; the vissels increasing in rumber in size, and length, an increased blood supply being demanded, to satisfy the requirements of this important organ in the performance of the most insportant supplies.

The demand will be the qualit in a twin or triplet pregnancy, a larger blood supply will be asked, and more waste matter thrown back on the maternal organism for Elimination, and those most unportant organs of Elimination. The Ridseys a may be hampered in their functions by having their circulation interpred with mechanically, by prosure of a much disturbed where Mirus. Winckel roles a produposition to Eclaurpsia untiving their frequancies, and "on the other hand

A System of Motosfery. By Lewbrusau. 1880. fr. 286.

The Austorny of Laborn. Dra. H. F. Barborn.

Wran Sohneson Eduibungh. 1889.

B. M. Journal P. 988. Vol. 2, 1891.

Auton Pagge. Pruserfler Brackee of Medicine. 200 Eder Volij. p. 615. "that with the death of the foctus chied during pregnancy the during for the gravida is much beauted or entirely overcome".

O". Freeland Barbon N.J.D. Marfarre have proorded cases in which an albuminionia has disappeared simultaneously with intra-utimise death, and D. Barnes lells no that the increased arterial lension and Cardiae hypotrophy peculiat to frequency "continues throughout while the chied is alive"

Thuse cardio rascular changes indicate an Endrewoun, to meet the extra dunand under on the Economy, in connection with increased supply, anation of blood, and elimination, and best explained as Cohnheim accounts for the summar phuromina of bights Discase: - the increased activity of the circulation sunding the blood more rapidly therefore often through the lungs and kidneys and other organs of the body.

The anatomical expressione of this excessive, but still regarded as physiological activity is the Condiae Vascular Hypertrophy. Three changes, like the hypertrophy of the Herno, disappear storoly

Jarour p. 158.

Casalo Year Book of Itealment. 1890. fr. 233.

D'Lopold elleyet (Beitsch sin 426. und 9yn.

Band +vi. 8.215)

NEY. Casalo Year Book of Itealment. 1891. fr. 334

(arch für Gyung Baud ** X.V.)

after pregnancy. O Barnes has found that the heart at Jule lines weighs 103 more than the standard of 8 or 9 orners.

Ju the later months the lungs may be interpred with in their function, while a greater demand is made on theme, The amount of Carbonic acid techaled increases as prequancy advances by the Kidneys, there is diministed Elimination of the inorganic salts, except Chlorides, those retained being required + used, it is presumed, in the divelopment of the foctus.

Albumunica occurs in 10%, of woman in last

Albununia occurs in 10%, of women in last month of frequency. This has been observed in association with Gelampoid. Suespesal mania. Acceptulal Hamorrhage. Isunature Labour Placental Disease, and intra-utenut death Ghyersunia occurs in 6% (Sarvin) of Sugnant Women at this same time. The source of the sugar is but lactial secution, for in pregnancy it occurs only in women with large and well developed breasts. It is present in 75% of Lying-in +

nursing wowere, and inneaded or diminished we

quantity as the flow of miers is hindered or very free

Vierdorts Medecal Diagnosis. fr. 447.

Young J. Szurland Eden? 1891

D. J.W. Byers. B. Med. Jonn Volij. 91 fr. 681.

op at. fr. 69.

p. 78 " Saundly sp. c.s.

This is held to be a physiological Glycosusia, the mich in these cases is moat nowishing to the in faut than when sugar is absent, and the more present and the longer it lasts the better wel-never will the woman make the sugar is factore or sugar of mick.

Actionunia to associated with Diabetes: Stumpf noticing the thetlike odom of breath in patients sufficing from Surperal Eclampsia, found Acetone and sugar in the unit.

Naundby "hind type" of maunia resombles
Kiissmanls Coma; that form met with in Diabetic

"Mene may be convulsions and coma, preceded by
Epigastic pain, with rapid pulse, and dup sighing
respirations." An acia formed in the intestine, and
Munce absorbed into the blood is supposed to
Cause this "Kusomanlo Coma"

Smalor has noted this condition in absorbed

The State of the navous eyeseur in pregnancy, and the most as labour approaches is ont of increased tension, and was liability to reflect disturbances. Signewary changes, round the rapple, on the abdoment to to.

poisoning

faroin of est. 6 157. A Dear Book of Human Shyswlogy ~ 1891. Landois + Sinling. p. 19. . of is p. 249.

was need a in in blancakline of leavens was

Though the use of Iron, say in the form of the Inchloride if combined with a salue, as the ordinary suephate of magnissia in those cases which & Lushman classes as chlorosis, can be productive of only good.

stefalabin B. Med. Soumal. Vol. 2. 1891. p. 679.

The second secon

As the set, in the second seco

and the state of t

Staton Fagge, Principles r'Sraelier of Medieire Volij p. 805.

Three physiological changes must be runembered in considering the question of the production of Surperal Eclasupsia.

Reflex action may play an important part in the production of the Convulsion in Surprial Eclampsia, thus it is sought to explain those cases occurring with an absence of albuminum; thuse two causes — namely increased reflex susceptibility, and the promote of a source of initation—complete the whole pathology."

Gowers thus explains the absence of profound mainie come "the presence of a powerful cause of reflex initation, which may excite convulsions, apart from any toxaemie influence, and when no other predisposition exists than an undus excitability of the newsons systems."

Again Epilephorm convulsions have been cured by such a snight measures as Extracting a decayed molar (Jomes) or by the successful treatment for the removal of Japa Norme (Jrousseau)

dushe prequared woman we have an unsettled state of the newons system " Convulsibility of Iregnaucy, depending on the state of nutition of the newe-cells, and therefore dependent on the quantity or quality of the blood supply. Such a state of the curtral nowous system may be regarded as physiological. but the enculation of a possore having an action like strychning, and further influencing the nutition of the newe cells would Exaggerate this physiological State into a pathological condition. Some poisons are described as having first a stimulating Effect passing on to paralysis - but by giving a smaller dost, the first effect of a large dost may be obtained and the last avoided, while on the other hand, the use of a very large dost will at once produce a paralysing action. With opinion for instance a tolerance is produced by its repeated use - whine, alarger quantity required to produce the stimulant Effect. Coproduce which is nowally taken, and its action may be long oclayed.

Landow + Stuling of est. p. 858.

Woods Therapules p. 208. 210

Swith Elder + Co London. 1888.

Wood f. 208.

Lauder Braulon op al. p. 132.

Small dosts of otropino of first increase the Excitability of the motor centres.

In alsopwal poisoning a manufact suffice from convulsions ruflex spasus Early in the foreoning and offin txhibits Evidences are through of Excited reflex actions, In not loo large amount ahopme is a stimulant to Paso motor curio. The action being similar to the action of the drug on are the other motor centro on the spenal cord alsofine has an action similar to strychnine. in causing increased excitability to.

at Exercise there was so affect the motor curies as to render them more excitable, and an efficient pefex irritation will called a convulsione into action are the most easily. In individual news cuts, in the motor area, related to the movements of muscles with which are Epileptiforms convulsions only in art smaller in size than those which come into play later, and would therefore be more easily influenced by changes in the blood. (Huplings Jackson)

Laudois rolliling of al. f. 785.

A THE STATE OF THE

Emiliar desired in a latter to the terms to the line of the latter than the second to

Commence of the state of the Branch of the State of the S

Experse of the last the second transfer of th

No regions of the body furnish a stimulus to

reflex action, more effectively than do the

intestines or sixual organs. This may be
explained by their relations to the sympathetic

and Summogastric News.

It is probable that all reflex acts are due to the replication of impulses in the news energy.

In weak slimmles, not enough of itself to the dischanging of a reflex, will do so if repeated sufficiently office. Strychning so interferes with this "Stimmation of Stimmle" by increasing the reflex excitability that a minimal slimmles is at the same line a maximal.

The utimo is the organ, to which we ratinally look, in outing for an Exciting cause of the Convulsion in purpual Edampsia and it is possible that the action of such a powore as Abropine — acting Esthet directly on the muscular files, or by its action on the spinal cord — may be a factor in producing inequal, painful, and useless contractions known as false pains, and rigidity of the os which acting on the motor centre of the brain

Obstetnes. In J. Y. Sumpson p. 297 footuste.

Hulon Fagge. 2nd Edy p. 501.

Iniciples Inelice of medicine, William soles U.S. Young I Surland 1892. p. 167

unght definite the onset of the fit. after pains and "the fame" of abortion may account for the cases occurring During prequancy or after labour. Any other sufficient pripheral impression might act similarly D'Hamilton describes the Epigastne pain which some of the three pumonitory oymptoms as "Gaupish pain of the stomach, which would udicale a sucilar mode of production. This might all as an exciting cause. Epileptiform convulsions have bene caused by the pain (?) dut lo the passage of a gallstone, on the other hand - in Rual Colie going on to obstructive suppressione (D'Roberts). D'Oslet remarks that "the macuic symptoms may not-develop for a week, when twitching of the muscles, qual restessness, and sometimes drowsiness supervent, but strange to say neither Convulsions or coma. Here we have a true condition of Minaeuria, The Kidney affection is due to the presume of a calculus, and notthis result of a loxic agent other than the normal constituuts of the nine

ont of my first cares in provale practice was a muclipara in her 13th labour, a big strong, slout, plestorie woman.

I was summoned ont rowing at 9 f.m.

and found her suffering severely; the os was

quilt unaffected by the contractions, showing

no sign of dilating. The woman feel asleep

at 12 oc. and I left, giving instruction to be

sent for it required.

Next Eccining the commissions cause again and the condition on examination was as impromising as on the previous Evening. The had passed an uneary might, and had paire. So giving her 45 drops of fanduaum lagain less, assuring her that she would get a good sleep. which she much needed. The character of the panes changed at once, and being jeet in the Sacial region indicated a dilating oo. after a rapid + Easy labour of 20 minutes the chied was born. Since this east I have had a Similar Experience frequently.

B. Med. Som. Volj. 90 p. 1440. Lauder Bruston. of cit. p. 437 - Table 2 Chap: *1*, on the Autagonista action of Dugs.

Sarvie pp. 301. 443 & seg.

Manaquement of Labour. Army Glandis, M.D. h 75 Charles Griffin & Condone.

Discussion on Modern methods of managing linguing laborn. B. Med. Jon. Vol ii. 90 p. 715 N. S. Playfair Mid. and newarks by Viller doch Causeron. & Walker tother. Lander Brunlón of al p. 437.

Stas the opinion an awagonistic action here as it has to absorme? quinine too which is useful in simular cases has an antagonisme la atropuie, and Brunton classes it with Ergot & Savrie among the chief Ecbolics. Sawin also bears testimony lock good Effect, recommending its use in abortion, and in Labour. Laudis reconsumdo its use in dosis of \$5 uprated sorry hour "a sleepy where cutre may be roused by quinine and the quival muscular tone improved. It has no spicial action upon the uterine muscle, acting undirectly but none the loss effectively he goes on to say Esgot is the most uncertaine ding in the Sharmacopoèra." dor is the good opinion of quinno confined to auunca. Competent obstetriciaus in this country & But has found Geloevermen and successey. I also is an antagonisti to alsopurs, and so is chloral. hydrate. If closs are will cleared out of the uterus these same drugs are useful in the

Cassels Year Book of Irealwent p. 149. 1892

thealment of after pains.

Such inequals utiline contractions are usually ascribed to irritation of the bowels. It is interesting to find that Assemile of Copper. found notful in the treatment of Colic and Chronic Dianhoca Chould be recommended in the treatment of and used with good effect.

The poison acting in producing Macmia is still unknown: the advance of modern chuneal useasch should soon throw more light on the subject-

The Carbonale of Aucusonia theory of Frerichs is only mentioned. I now receives no support.

Thea, has, wen in recent times been looked upon as the poison, as also have allied bodies. The various tatractives.

These bodies are found in normal unint but occur in taxes in the blood in Maenia, and other secretory organs

by vicarious action way aid in their exerction when the action of the renal organs is compromised.

The promet of an excess of mea in the blood widecales Either increased production of that body, or. That it is not being Eliminated

by the Kidney.

is a directic, a small quantity is found normally in healthy blood, and the quantity eliminated, will depend on the amount of fluid passing, and on the point of saluration of the blood. It is a non-bital substance, of organic origin, with such a comparatively simple molecule that it would pass readily through the small Epithelium two if this Epithelium were paralysed in its selective function—in obedience to physical laws

Lu mânia sollowing obstinctive suppression (Loberts) Convulsions reone are rare, but they frequently occur whe mânue of Scarles sever, where there is a loxic agent

Da. of as 1737.

Manual of Sathology. O Coals 2nd Edis for 808.

Mr. Level and Company of the Company

cuculating whe blood.

Is may be noted in passing that beautifives has been said to useuble Accessounce poisoning.

I would seme shal we the Human subject something the number present than the ordinary constituents of the wrine to produce telampsia. Thanks way supervene us a cost of emonic Brights Disease wwhich a large amount of mine is being passed with a fair proportion of solids"

Compusatory renal mypertrophy is a recognised physiological condition: Experiment in full grown animals demonstrates
that after the Excision of one organ, the
runaming kidney in a few days adapts
itself to the needs of the organism, and
proves adequate to the doubte duty
dunanded. If may and does occur after
an excision of surgical kidney, or where a
hypromphosis of its fellow dunands it, but
its not part of the history of Brights disease
so called.

Clunical Molis ellss.

See hat a Diseases of the Blood.

Su lest of Diseases of the Blood.

Atelon Faggs. 2rd Edu p. 747.

Osles op eil p. 26.

" " h. 15

Or Ganduer. insisted, I remunder, that Brights disease was symmetrical, bilateral, diffust accompanied by dequestion, and or loads in considering the causation of this disease has no hesitation in recognising that the initant is carned to the renal organs by the blood.

Sashological anatomy would sem lo indicate clearly that Brights Disease sa blood-disease. the different forms resulting from differentmitauts. Anaencia may be taken as the type of shore so called blood diseases." I we have regard to the recent views of its poshology. how can we deny Ensuic or Typhoid four a place whe same class? in one form of which disease - the nephrotyphus of the Germans or the finere typhoide à forme rinale of the Funch au aculé rephulis may complicate The disease_ occurring at the onset of the disease or during the height of the fever. a scarlatinform mo rast way occur in Typhord, during The just week and this also occurs in

Samuely of as p. 244.

Belladouna poisoning; and orythemas is common in Manuia

To distinguish a "true", synonyuous with a mainue form of Eclampsia, as & Lushman suggests, however disnatte from a thenapeutical point of view - and in using mosphine the presence of a large quantity of albumen, would make us cautions - pashologically relinically We will have some difficulty in drawing the line. It poison may tirculate in the blood and and in the production of the condition of reflex excitability "or hightened unvous temion" and also perhaps so act on the utinus as so provide au Especient-stimulus lo reflece action and yet never affect the Kidney at all, in such a way as to be recogniscel Clinically by the presence of albumue in The wine_or what is more probable, that presurer may be so wan socut as to Escape delicion, or the albumen present, in such a form as to tocapt ordinary testing reagents

As that may be convalsions, and no albunes dunonstrable we the wrine, or tocapus of descessions. on the other hand known subjects of Brights disease, and also women supposing from severe albunumeria of pregnancy with marked occura may tocape the convulsions thank a marked occura may tocape the convulsions thank a distilically tasy labour, especially it treated distilically.

Ju these cases we explain the non-occurence of convulsions by the want of excitability of the newvows system - a tolerance having bene established; the want of a suffecient exciting cause; or the dielitie or mediculal treatment Employed, may have prevented the formation of, destroyed or antagonised in Some unascure the noxions or poisonous agent.

BM Jon. Jan. 3.91. p. 12.

He individual cello, as will appear later, have not yet altanics the perfett state"

Discases of cheldren f. 421. Money

H.K. Lewis Co London. 1887.

as the convalsion is the essential and constant symptom of function in connection in interesting to consider in connection with this subject some of the other forms of belampsia

Danduit has pointed out the finitarity between furposed relampsia and the convulsions of childhood, and in many, and the essential points the comparison holds good. Justice child we have a state of the nervous system comparable with the "convulsibility of prequancy" and consequently convulsions are frequently met with.

Ju making comparison we must remedes

In making companion we must remunded developmental differences in the bram of the chief from that of the aduct: the convulsions in the musty born are lowest level plo of Do Aughlings Inchoon. The highes centres being medeocloped. The convulsions of childhood may become Epilepsy in after life, and some three, may it saws have a relation to a manuic convulsion: "A mere lowering of vitacity favours Epilepsy in neurotic

the this convertises in they succeeded about and Car milians of the Eller Baret & Sind Commen horder and who may the SHELL OF DREGULARES SHEET CORNERS Vierordes Medical Dioguosis. p. 448.

children, a defeet with liver, a timporary inadequacy of the Kidneys skin and lungs may inverse and maintain Epilepsy in nemotie children " these convulsions of chilahood are examples of Tilo produced as the result of reflex action, an explanation which always requires secutiony on careful Examination it seldome will complete the whole pashology." Though it may cutainly play a part. Diaceturia, occurring in aduets associated with certaine unvous system symptoms udicalung Toseannia is of bad proquestie impost-"As so its significance when it occurs in children, Jaksch, by recent-investigations arrives as the supposition, that the convulsions which So frequently occur with theme in acute diseases may be explained by diacetinia" Au attack of prenumonia in a vigorous child is often ashered in by an alarming convulsions D' Augel Money in a recent discussion en one of the London Societies was inclined to attach to Such a good prognosis, inferring that the disease wire terminate favornably in as abrupt a

Euslaer Suish The Wasting Donases of Jufauls +chicom. p. 110. It a Chenchiel. London. 1888.

B. M.J. supp! p. 97 June 18. 92.

a manner. by Crisis. But in chronic disease this hyperexcitability is lost and a secondary premuonia may develop wishous any marked constitutional symptom, and is discovered perhaps accidentally by indicative physical signs. a common termination of a diamhoraic illuess in a child is by the Hydroaphaloid Disease so graphically described by Gooch ascribed by Sajot to the poisonous action of a plomame, and nounbling mâmia. In alcoholism the convulsions are relampliform and the fits may resemble closely the diseass of prequarey. neurring prequently at short intervals The distinction between the convulsions of the Junpual condition and Epilepsy may be unpossible, especially from that four destinguished by & Hughlings Jackson as Epileptform. I can only be done by avery careful consideration of the clinical history of the case, Certainly they cannot be distinguished by the promer or absence of albuninuma. An Epileplie too may enjoy are inmunity from fets during prequarry and may pass through a difficult

laborr without any compulsion. Can the poison circulating in the blood have an aestrative action on the nutrition of the newe cells. ?

Buladouna has been recommended by Ironspean in the treatment of Epilepsy.

Justice Eclamptes fit there is a "certain order in the disorder"— "a regularity of the irregularity"— the hysticial for differ from this in being all disorder and all irregularity— the parient— does not lose consciousness and takes good care of herolef. avoiding the injuring of herself by mes movements or biting her tongue. Compared with the genuine it is a very poor initation

Ayoung unwarried girl was sees to the Glasgow Material in a Cab, said to be prequant for the forouth first truck and about the third month. She had suffered from two or three convalsive seezenes in a house in George St. her landlady having given her notice to quet. She had no fits white under observation in storpital Examination under Chloroform, showed that she was prequant; probably about the fourth month by a split cavia told its own tale

D'Hughlungs Jacksow. Bul. elled. Form. Mas. 29.90
(Lumbone Lectures) f. 703 No work to the second s Vielor Horsley. Brown feelures. Lancel Dec. 25. 88

Eclampsia is regarded by viewords as squeptomatie The recues remarks of of Hughlings Jacksone deserve more than passing notice. The most brutal-looking convulsion is only the sign of a departine, by a vast excess and by a carreatine pour normal unvous dischanges" His assumed by him that the convulsion results bom excessive discharges home newe-cells weaving the aboration of Everyy by rapid Kalaboliscu of Some matter in or part of these cells Three classes or finds of fils are recognised depending on the rank or level of the discharging Ceatie- in order of their evolution, from below upward Each of these levels of the Cenebral unvous système a Sensori- motor, and they respectively represent, re-represent, and re-re-represent inspressions recoverents of are parts of the body Each level is bildfual, and the twice curtes are connected by jubis as well as with other non-identical cuelio of the opposite bracu The fets in Eclampsia are cortical fets, for the

combination of and sequence of tonie-clonic

Osles. of ell. fr. 958. Samuely of cit. fr. 69.

could originale only from the curbral motor cortiae". The absence of ama whin usually localised beginning on one side of the face and body - the turning of the of the head to the one side class there as Excleptiforms. The signal symptom affects the facial muscles, and the fit always becomes universal, and consciousness is lost "Typical" Jacksonian Epilipsy "Down occur in maenica. the convulsion affecting one land removed.

The whole convulsion to but an exagguation of familias normal movements "those of smiling. masticating, singing, manipulating re." "a made tudeavour on the part of the highest cutter to develop the maximum of function of Every part of the body, animal and organic and of all hasts at once"

The newe-cells have still their usual connections and relations, but their nutrition is so altered by pathological processes. That they have become highly explosive or "mad."

BMJ. 1. 90 p. 767. footnote.

Organic mater - protoplasue - and nervous mater has excellence - has as its junction the storing up of Energy. & Jackson supposes that the explosive condition is always the result of a pathological process, by morbed nutrition, - a nutrition which alters the composition of the newous matter; that strychnine for instance Eulero auto the composition of the protoplasue of the newe cello - this morbiel (substitutione) untrition, implying an hyperphysiological degree of junction corresponding We are certain That normal movements resuer from the liberation of Energy attending Katabolism, and having sun what relation, the convulsion bears to normal movements, we infer that it is the usual of excess of the Jance Physiological process - sudden and Excessive Energy liberation attending quatand rapid Kajabolism, Elycerine, when some of the Hydrogen is replaced by hitric peroxide, becomes the unstable highly explosive hitroglycuine.

an analogous change is essured in the

Br. Med. Jou. '90. ap. 26. h. 949.

production of this physiological fuluinate — the abnormal nutrition giving rise to a substitution product; and renders unstable protoplasm, slies most unstable and texplosive. The constitution of the protoplasm remains the same, but its composition is altered — its mosphological character remains unchanged but its function is altered

Polace White holds that there are three
Therwic levels, and makes out an interesting
parallelism with Jucksons three Evolutionary
Omoori-motor levels

Thowas level, consolling hear discharge

Thermolytic

I Middle level, consolling hear productione Thermogenetie

III Stighest level, balancing The action of the lower centres Thermolaxic.

lower centres Thermolaxic.

Many interesting a conclusive facts are broughtforward in support of this theory showing

"that the parallelism between the three thermic
levels, and the three sensore-motor levels is in

their anatomy, - Their complexity, and their order

of Evolution very close. The "middle level" of both, corresponding with the motor area and the corpus striatum, is the seat of this assumed thermoquetic unchanism Heakest Seripheral austeroione in bross remo Serphiral Strundi apouroles Sweat nation lespuation Jungs to. M bessels of Skeece Sweat glands te.

Landois + Stilling of cu p. 873.

B Med Jour. May 3°. 1890 p. 1041/2 D. Donald mealister

Landow' + Eulenberg's observation that executation of an area withe cerebral cortix produced availation of surperature withe part of the body to which it was related, is intensting Destruction of this area produced a rise un temperating ("1.5°C & 2°C or Even 13°C) hood rothers This localisation of the Nervous theory of pyrexia pur Jonvara by me allisses, gwo it a new whenst and unportanter it was be admitted that there are some discordant facts, but these may be explained by Jursher working These cuerro may be acted on by poisons E.g. poisons circulating in specific fevers arise of surperature is world in Fish possoning Belladouna poisoning. They way be acced on by peripheral impressions or stumble. Severt pane, E.g. Bilisty colie in very seuse painful abscess, where opining gives immediate relief with sudden orop of tumperatine

Porvin op ed. p. 258.

Galabin B. Mj. Vol ij. f. 679 200 Col.

D'Kirls Laucet ellay, 3° 1890. Cassels year Book of Treasurent. 91. p. 135 Albuniumia occurs in the majority of cases of Sunperal Edampsia: the association has been so constant, that as has been, noted, competent authorities, would distinguish a true form of the disease, from That in which albunen is absent how the wint, and called by spiegelberg Eclamptiform. Albumen in the wine, by shuse. is taken to indicate disease of the kidney - nephritis which condition by introfering with the Eliminating function of the kidney produces the bloodpoisoning. oo causing the relaupsia. But & Galabin suggests that the relamphisorm fit may be best explained, by supposing the Existence of a prealbunuinie stage: such as the late of mahowed demonstrated in the chronie som of Brights disease. albuminia indicates that the Glorusuli are allowing the Escape of albunere, but its absence is no proof. That the other parts of the Kidney are not affected in their proper function Le support of this idea may be mensioned a condition - Mucinunia - which Nick callo attention to, which always occurs with and is

Manual of Pathology. 2nd Edil. fr. 115/6.

I Coals M. D. Longmans. London.

D. Coats unarks may apply to large Doors
composatively - by analogy we would expect
a shundant action to preced the pasalyoing.

as aboptuse paralyses the nerve cells after

shundaling them -

it I now have not the slightest doubt but it does!

a soreremmes of albuminumia, and is suggested by hack to be indicative of a decangement of untabolism in the renal Epithelial cels. any thing impairing the function of these cells may Eviduce itoey as a mucinuria, and its continued action may produce albuniumia Naturally one full inclined to refer mucinima" to initation of the renal Epithelial culs, but before so doing renember what O Coals says as 10 the term initant _ thes time initant is age to be misleading, as it Emboders the conception of a stunulating action; whereas the so called initants in Their nature and action, possess charactivo rashes of a deadening than of a stimulating Kind" This explanation is very mensary, and would suggest; a paralysing action; we can thus understand how a substance acting on the rual spithelium. as alsopine does on other glandulas structures, wine affect thun. * The clinical condition of mucininia & may be indicatur of such action - albuminuria may udicale a similar but excessive action on

Rofessor Mackendrick.
M.S.S. Molis on Physiology. 85.86. Winli.

NO.

Saundby Leesuus on Bughts Disease Albumininia. p. 17. the glowerular Epithelium.

The Kidney is a compound subular gland - plus a filtering apparatus, and the cuts exercise a very similar, if not-identical function to that of any other gland; in virtue of their vitality and special function they have a selective action.

Vory lakely in the Glosgow Ministrity, the theory of Ludwig was favoured = That - albumum Escaped with the valines of fluid, by a process of filtration under pressure, and was reabsorbed, by the cells lining the tubules, the unine also becoming concentrated by absorption of fluid.

Ex absorption of pluid.

Chopine haralyses the cuts of a secreting

Glands - if ahopine is administered to animals

albumen appears in the urine (melyngor Robertson)

because these cases cells are paralysed

because these calls cells art paralysed"

Lydwigs throng has been weighted we the balance and found wanting. I could not stand the test of careful histological investigation, although the anatomical structure of the kidney ouned purposely made and designed for it— the loop of Hult evidently designed to finds the escapt of fluid until

Supplement 6 Bnt. Med. Jour. Aug. 91. p 38.

British Medecal Tournal. Jan. 2.92

Vide Landois Sluling. op est p. 261

Septones Mutation. B.M.j. July. 20. 1889

h. 137

The cells of the tubules had re-absorbed the alluneau. The beautiful recareful experiments of Prosuet & and Ribbett disposing of this theory are most conclusive

physiology considerably — they impress on us that the vital activity of protoplasue was be considered in Explaining physiological and hathological processes, wany of which have hitherto bue regarded as purely physical phenomena.

"As physiology advances it has become most and most abundantly clear that purely physical causes will not account for vial phonomena problems (Herdenhain)

The purely physical "Endosmosis, diffusione and liebation" dans

diffusion and fietration do not fully explain the process of absorption of digisted

food in the infistinal canal

It is not metely an organice membrant we have to deal with comparable to the parchiment of adialyses, but the activity of its lining Epithelinue must be regarded and

His lymphagoques are sumply irritants with deflerent afficiles - they may paralyse one hosae while they should another - the flow of Cymph will be from the "shoulded" lowards "the paralysed"?

And the second of the second o

recognised. There is "Vilal absorptione" and "regeneration of peptonio in their passage mough the intestinal wall, i.E. the peptone is hausformed by these cells into-itis presumed Serun Albunien

Junely physical causes have never accounted for the phenomena of dropsy. Heidenhain's researches on the formation of lymph, may heep to shed light on this subject. "Blood Lymph" and "Dissue Lymph" art distinguished by him, and Those substances which he has found to Increase the flow of lyurph, he disiquales

" We must conclude that this lymph can no longer be regarded as a unive filhate from the blood, wor can the capillary wall be regarded as a mere passive fieter, and for the formation of lymph other forces are in action bisides the filtratione of fluid Through a pervious munbrant "Lymph then is to be regarded fauder Bruton op. ces. p 374

as a secretion formed by the activity of culs of the capillary wall" (Skidenhain) But The anatomical Structure of a glowerulus - The comparative size of its affirent and Efferent vessels are strongly suggestive of fetration under pressure hudwig and his pupils have shown that the amount of nine depends on the difference of pressure in the glomerulus and the tubules If the pressure in the tubules be increased the quantity of water is diminished Even with a high blood pressure - obstruction of -the rural vein produces the sauce Effect, the venous pluxus surrounding a tubult becoming conquested exercises pressure on the tubule and prevents the flow of wint Mongh 4-

Frouss known as diffusion

Graham divided substances into two classes. Crystalloids + Cocloids - the former class bring Easely diffusible - the latter with quat-difficulty or hardly at all

Oxorders of Orgestion: D'ander Bruston.

p. 317. in a series of the second seco Contract of the Contract of th wedding of the state of the sail to Ledwig and his filely day street and THE THE RESERVE OF THE PROPERTY OF THE PROPERT See the frances in the distance of the same Landow Striling of al. p. 464. Manual of Polhology. or Calo. 2nd Edup. 6

haube has shown that the molecular weight plays an important fast withis process.

Hangolobin a erystanine body is not a crystanoid.

Whas an Enormous molecule judging from the

chemical formula

C1200 H960 N154 Fez S6 O254 - (Preyer)

a'giant mobile - so large that well not pass

through the poses of a membrane.

white of Egg, when injected under the skie, appears in the prime, while server albumen is effectually prevented in passing through the glowerular Epitheline the chief protect of white of Egg is Vitaline - a deflusible albuminoid.

Itere again some explanation is necessary. Iohn stunters experiment showing how a perhor living egg with stood purzing, considerably longer than an egg abready Killed by puzing is very intensiting. When put into a puzing mixture its timperature faces to 29½° F - as does that of living animals without puzing, and it makes knistance 25 minutes longer than the already "dead" one, and before congealing the tamperature rises to 32° F. The puzing point

Lander Brulon. B.M.j. June. 8. 1869. p. 1278.

Landois Sinling of cut p. 462

Living protoplasm differs from dead albumen, do molecula muss differ.

The highly organised protoplasue which forms the physical basis of life has, in are probability a most Complicated chunical structure, and fliger supposes That The relation which the size of a protoplasmie molecule beats to that of an ordinary chuical molecule is like that of the smallest meter. We do not know how this gigantie molecule is built up, but we are learning something about its component parts by a study of the substances it yeilds when decomposed. aung these products of decomposition we fued varions acids containing Carbon, and important part"

The formula of Egg albunue is given by Bunge of as C204. If 332 N25 Obb S2, and unboiled white of Egg is the hypical proteid — this formula I lake it represents the "dead" albunue as distinguished from the "living" albunue of the fresh Egg. There much be a molecular difference between them. The molecule, or the anangement of molecules.

D'auder Brulou. Gooncau seelmes. Evolution of Elemento "_ Evolution of organic matter " (# an inflammation of the blood ?)

of the living" will be much more complicated than the simple molicule of Egg albunuce. a step higher we the ladder of Evolution leading from the sumple atom to protoplasme Nil not the onun albunu AN and globulin of the circulating blood, not be a step higher than those same substances as recognised by the chemist in his laboratory. As they occur in the blood the can hardly call Sermu. Albumen and Sermuglobulin chemical compounds, and represent their chanical composition by a formula, but I may be conceived as possible that such bodies may be formed 4 to in the circulating blood_ if sour chemical agent with strong affinity were to enter unto chuncal combination with the circulating "albuminoids of the blood and degrade them, depriving them of them vitality- loshe rank of a "chunical compoundor such a "compound" may be formed in the intistinal canal, and mough some defect in the apparatus of intestinal absorption - we the intestinal epithelumi orliver - may not attain the more perfect state of the unculating

Voulung of Sugnamers associated with Amuialbumesuria Deacelunia DRKisto. BMJ. ap. 19. 1840 p. 903

Landois retaine, of at f. 464. \$ 249. The annual protects

Lander Brunson. Shannaeology. Masena Medeca Bherapulies 1885 p. 144.

albuminoid - may pass through the body as a chuncal compound: a state of Hetro-albuminaemic leading to albuninia, and, comparable to the alburamenia produced by the injection of Vitelline or Egg albumen under the skies How can we otherwise account for Bence Jone's albumiunia. Septonuria. Hemialbumosaria - a condition which or Kirk of Sartiell believes to be not une oumon. Now can we account for our so carred Physiological or functional albumunias? How far is the albumunia occurring in Ineumonia the result of a stepro- albuminaemia ! WE recognise acid albumins, aexali albumins (albuminates) - definite chunical combinations me which the physical theuneal characters; E.g. dessibility + coaqueability are actived. There Exists an analogous compound consisting of an albunine united chunically with an alkaloid, with altred chemical and physical propules consponding resembling however more the and combination than the alkali- combination (so that in this unstance the term ackaloid is a

F.W. Pavy M.D. Brs: Med. Jour. aug 24.89. p. 418

British Medicae Soumal. Ang. 24. 89. / 423.

uisuomer) These albuminalis are not coagulable by heat Their chunical structure is identical; the and

aekali or aekaloid combining directly with

S. Samuely is convinced that omall quantities of albumun escape described by the Nitrie acid being for more reliable and he prefers dilute acetic acid.

"Chauestry has shown that several modifications of albuneu sxist; and the unuber how bene an increasing one with the recent advantings met with in hural disease made by research. The usual form is serum alvenine which is precipitable by mineral and not by organie acido - La cyclie albuminumas, ou the other hand, my experience leads me to say that it is the rule instead of the exception for the addition of an organic acid to be followed by the production of a precepitate, what is usually within class of case is that two kinds of albumious matter are pusent-one of which, lette aexali-albunen and unicie is precipitated by an organic acid- and the other which correspond

BMj. (DHaig) vols. 90 f 64.

to serve albunce " These organic acids may act by decomposing au alkaloid albuninale combinings lo form a soluble, saet- with the ackaloid, and liberating The albumene That theory Known as Professor Semunola's (of Naples) is a most ulinsting one. - Stockvis has ably refuted it - (he says) but it senus night in principle, and is so original that it deserves more attention man it has received. I may contain a genu of buth. It sales as the first stage of the process a Metro-albuminaemia on the presence of a foreign albumine withe wint blood, produced according to hime by defected skies activity and me other ways - the passage of this foreign albunces causes irritation of the glowerular épithélimes and This défect allows the socape of the albuminoids normally present in the blood, when the condition is experimentally produced, the damage to the rual epithelium is indicated by a continuance of the secondary albuminuma of blood albuminoids when the princary cause is no longer in operation

But. Med. Jon. bol 2. 90 pp. 197/201

B. Mj. Aug. 24.89. I. H19. D'Geo. Johnson

The deflusibility of Sennu-albumine and Senune-globulin D' noch Paton has shown varies with
the pressure. Senune albumine, under high pressure
diffusing more napidly man Senun Globuline, while
with a low pressure the latter diffuses mostquiekey. also that Smalor's observation is correct:
that both proteids are present in all cases ofalbumininia.

The amount of these albumens varies - a variation depending on the stage of the disease, frimarily due to the composition of the blood - a dimual variation, in their relative amounts due to changes in the Brood pressure

By his experiments he also shows, that the

Statement - that paraglobulin indicates a functional albuminate - and vernus albumina organic disease of the kidney - is moorned albumina in praesceal observes as well

as in the practice of medicine oright to be regarded as a Danger Signal"

Sir George Johnson regards albumineries as being always parnological - considering a saturated solution of Sierie acid - the test-

J. hoil Salow. loc. cit

introduced by Nork - as being most reliable Il causes no opalesence in normal unine and if opalesence is produced and withstands and innecess on the application of heat albumen s certainly indicated In prequancy pussure on the renal veix is undoubtidly a factor in the production of albummunis as has been explained. I long continued ouch obstruction by causing a constant congestion produces a som of cirrhosis of the Kiducy sucular to the pashological condition of the lungs known as bown indination due to are inneast of connective lissue Impeded respiration during a jil would moduce this same condition of congestion or aggravate it if already existing Juneased arterial lension would also sometimes appear to play a part as withe cases referred to of & I.D. Maefaren . A. Freeland Borbon the three cheef faction la be recognised in its production are I Changes in the fietering apparatus of the Kidney I Changes we the Composition of the blood III Changes whe Blood pressure.

As so the poison producing Surperal Eclampsia. The theory that it is a promaine has been parforward.

Annual alkaloids, and other and bodies play a very important role in the quesis of many forms of diseast. As yet we know comparatively little of these - they have been designated the unknown quantities - the X. Y. Z's of Sathology. An ackaloid to an organic body, which forms salks with acids, roundling an ackali in the chunical relations and bearings.

Many of the vegetable alkaloids have been for some line familiarly known to us, but the discovery of similar bodies in the animal lissues resulting from the decomposition, or activity of their motoplasme has given this class a new interestand importance.

For all practical purposes the witestinal caual is ontside the body, and the bacteria which abound there produce plomains by decomposing albuminois matters.

on these are concerned - so fait in qual weasure - a start ineognita - and the fact that think

En William Aiskur Kul. USD. LLD. FRS. on the "Anumal alkaloids" HK Lewis. 1889.

alker p. 5/6 h.8.

Lander Brunson. Therapeuties to Open. p. 101

alkaloidal poisons are there produced, is now beginning to be clinically recognised The aekaloids produced vary with the sulchances present and the agents acting on those substances a poisou resumbling ellusearine has bem oblames from decomposing fish: decomposing sausages have quie vise to the symptoms of ahopinal poisoning and a enjetalluis body resurbling afroprise in appearance has been obtained by the chemist. If such a source of poisoning be admitted. The acute and chronie forms will differ in then symptoms: me the chronis forms a condition of tolerance may be Established: or like some of the vegetable alkalords they wichave a cumulative action To Bouchard we are indebted for many interesting facts regarding these vodies: from healthy human facers he has obtained a substance by dialysis which produces violent convulsions in rabbils and ht beleves that Maenica is due to the absorptions of sekaloids from the intestinal equal

Baereria + Men products. S. Suis Woodhead f 363.

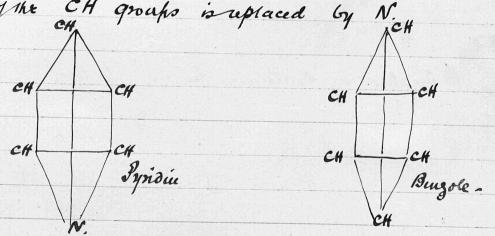
(Walter Scott. London + Newcastle on Fyne.)

The difference between & muscarius, "atropue" "pyndie" of
the annial aexaloidal series sums to be one of
deque of oxidation - "annual aexaloids are more
mustable than those of begelable origine

The Croomian lectures on Meretationship between chuncial structure and Physiological action. BMJ. June 8.1889 et Seq. Jufeel ; he gives diagrams showing wolution of America

ellawy such ackaloids have been described, and their chunical constitution and constitution represented by formulae, as a jule they appear to be of a simpler type than those of vigetable origin, still their formulae are exceedingly complicated.

Some appear to be constructed on a pyridine skeleton a nonsaturated alkaloid having a near relationship to Burgole, differing from it in that one of the CH groups is uplaced by N.



Both these aekaloids are non-salurated, and then affinities may be satisfied in so many ways that an Endesonmenter of organic bodies, having the same okclifon, may be formed and of Lander Bruntone makes out a relationship between chunical structure and Physiological action.

Ou intensting point, of chrunical relationship, helping to B bring the Carbonate of anunonia theory of Frerieho with this ploudine theory, is the relation-

A.C. Farquharson. M.D. glasgow) on

Stomains rother anunal aekalords. 1892. p. 12

John Wright + Co. Bristol

Vierord op. at. p. 366 (Vomil)

Inalize en continues severs p. 114.

ofras. p. 28 et seg.

- ship of anunonia to the ackalord, which has been clearly made out in those of vegetable origine, and is assumed with case of those of annual origin La Certain diseases a distinct annuoniacal odons is perceived, due it is here to the presence of these bodies. La Mâcucie patunts the buath + voucit succes of aumonia, and with the glass rod moissimed with Hydrochlorie acid chemical widence of its presence is obtained Murchison notes au odom of annuonia in Typhus and "I has also bru observed that the eases in which the odown is otrongest conununcate typhus more readily to persons in hearth, and in many cases where the symptoms of hyphus have supervened unuediably on Exposure to the source of contagion. and where we may suppose the poison whave bene musually concentrated, the affected persons have been conscious at the line of exposure. of a most disagregable odom punguit- and annoniaeal" sor William Aithu confinds infavour of a de rovo origine of Dyphus- that a similar oridutical condition may arise from animal

alkalordue poison, the result of overfatique text.

In William aikur. op ent p. 33.

D. Suus Woodhead. op cet p. 363.

He My syurpashies are entirely with Breiger

Saundby on Brights Disease of as. p. 159.

aumoniaeal compounds som the poisonous rement in illumbillated rooms. we poisoning with sewer gas: _

Exhaled with the heath or as a result of decomposition of oritiogenous water.

These annuoniaeal compounds have relation with the Cyanogen compounds - which also are derivatives of Annuoris.

"Leucomanies" we the body by the activity of the protoplasme

Bruger of Berlie has disputed the production of it "forcomances" - holding that the alkaloids so called are floreauces" absorbed from the bowel.

Su considering the actiology of Purpual Eclasufsia we attack rightly quat-importance to the hampering and princering of runae function, by pressure, especially in pruniparae where the analowical conditions favors this.

Should we not attach also great unportance to the condition of the intestinal canal? Constitution is connumer in prequancy, and is also noted as part of the clinical history of Brights Disease

Laudes Brusson "Desorders of Degestion" f. 240.

buttieus of Injections Desiases. Laure W. allau p. 13.

Osles op es p. 70. Iralment of Searles Sever.

Donases of the Kidneys to k. Edited by D. Raef E. Cassels year Book 89 p. 80. Sunuary of

D'Cavis Bradshaws belune on Maences

alkalordal poisons, the lower down with intestinal canal they are produced ase the most poisonous - may we not unfor that the longer neared - the faces - they will become more poisonous.

Suthe heatment of Scarlet Four the importance of purenting overloading of the lower bowel, unger by the late As: Mahouned to prevent that nephritio which are aggravation of that nephritis which is part of the diseast is now universally recognised - the same tend is in view in the shirt nick dietary.

"It is worth mentioning that Saccoud insists an upon the qual value of nick deet in Scarlet fever as a preventive of rephnlis" (of Scarlet sua)

"The duminishing of the powonous products reals or too from the introline can be effected to the indirectly by diet; for if a heavyly man be fed for a gioun length of time on an ordinary united diet, and then for an equal length of time on mick alone, the unite of the second period is much loss poisonous to animals than the first " I this strict dietary cannot be carried onto recourse must be had to the use of autis plies and the inhalahors of oxygen - Cartie recommending the administration of ten lifes of the gas daily

O assley Greswell. Corsells Year Book. 89. p. 132. In William alken of cit. p. 19. aesken p. 52.

the oxygen may be given in solution, being now tooly obtainable in Glasgow in Syphons.

This treatment is heed to prevent the landency to albuminaria.

The relation of these aexaloidal bodies to the question of temperature is interesting, remembering the assumed distinction of Eclampsia from Mainica by its temperature, course.

I is hus that Hypo-thenuid results from
annual ackaloidae poisoning: Hyperthenuia from
boisoning by extractives.

Muse statements are containly open to question.

Jos in atropulat poisoning we have a rise of temperature - and the animal alkaloid undaline described by Brieges has a similar action.

Increases temperature means increased Katabolisin and as a result "extractives" are formed - a consequence, as is also the pyrescia of this increased morbid lissue change.

These annual ackaloids, would sometimes appear to influence the course of other diseases, than those directly due to hum, Everyone has confirmed the observation of Lander Brunton as to the benefical Effect of

See also Cassells Year Book. 1890. p. 25. "Heroie doses of calouel in premunonia" & strong of New York bute also Broadbeat B.Mj. Oct. 4. 90. p. 781

Sor William aiku of cut p. 57.

Lander Brunson: Disorders of Digestion. p. 290

oo. so so

to. 00 po. 285

a purgative in the course of a Ineumonia, and A in practiet I have wen daned to give a calonul. purge, which had a decided influence for good is a most unpromising case of Entire fever (2nd Week) "ellost of the aestaloids which have been obtained by the decomposition of albumen appear to belong to the leverenaines of the "wascarine" type ? and to have a lindencie le cause diarrhora; but some appear lobelong to the "atropuio" type, which to a cutain extent comféracto the effects due to unscarine. Bouchard suggests instead of the term maenia" the nue one of dercoraemia, on account of its production, in his opinion, by The absorption of alkaloids from the intestine.

"Lepuis and molliere discribe a case of a man with nitisficial constriction who suddenly breame ite and deid in him days with an the symptoms of absorping poisoning, udness of the skine, delirium, dryness of the throat textime ditatation of the pupils with loss of necession to light, and rise of temperature"

D'Brunou gives a case from his own

Experience "A case of manning which I saw

a few days ago was strongly suggestive of powoning by a mixture of atropine and unseanne. The secretion of mine had completly stopped, the skin, syss, and month were all dry, the pupil was somewhat dilated, the pulse was bearing at the nate of about 130, the worth held constantly open and The heathing was laboured and gasping, but an Entired abundantly unto the lungs and there was no secretion of bronchial unceus. All these are symptoms such as we find from porsoning by atropus, but us two respects the symptoms resulted those produced by unscaring for the skin was pale ustead of being scarlet as in Billadouica possoning, and when cups were applied over the region of the Kidneys in order to restore of possible the renal secretion, very little blood flowed from the micioions"

Su a case of intestinal obstruction, in which the absurce of vorwiting. The character of the absorbinal swelling, and the quantity of fluid it was possible to wjed for annul - all quided we to a

diagnosis of obstinction low down, about the signoid fluxure, the appearances were similar to the case of obstinction just-described, the red Hush unolving principally the face and neck.

The ordinary weshods of the physician proving of wo avail M. Rusherford Morison F.R.C.S. Eng., my senior principal, was asked to see the case.

From the appearance he at once gave a doubtful prognosio - saying that the flushed face to indicated a condition of vaso motor haralysis, and that he was afraid the woman would not recover.

As Belladounce had bun used in this case I suggested that, as a cause; but he said he had seen the condition frequently, where not a grain of Belladounce had been used in the tor treatment.

Ite performed lest inquinal colosomy, and a large amount of bad smuling hunty and liquid facers came away.

The patient sank rapidly and died in

a few hours.

Posluonue examination showed no organice

cause of obstruction, but indicated that a volvulus had been relevied by the operation The whole of the lower bowel presented a condition of Jathy dequierations. which also affects the small wissing the stomach and other organs, ellawy other facts I have obscived clinically and noted in rading have made me favour an alkaloidal pathology for humpial Eclampsia.

Surprial Eclampsia.

Soy no means hold that any one alkaloio froduces the disease, for the alkaloids quinalid as the missimal canal may be many and varions, and by one autagornising another as well as by the action of lincomaines, testactions to the symptoms of their action may be modified variously.

Still Ishink I can best introstrate my hyposthesis by stating - that in pumpual relampsia we have a condition resumbling in many points, and analogous to alsopine poisoning

This idea. Working from Therapeuties to Pathology: - all the medicinal measures used in

hander Brunton op ed. (Therapulies &) L. 437.
"Autagonistic action of Drugs. Tarte showing mest important examples?

Do. p. 132.

Lander Brunson Mesapulées p. 414.

h 416.

the Trasment of Pumperal Edampsia, with success have au autagonistie action le atropine or are recovereded as useful in alsopuial poisoning Alropius, on the newous system, has a sumlar action le strychimet, and D Jacksons suggestion that strychuius rulers into a combination with the living protoprasu has bue already referred to The fits in Edampsia, are due 10 a "discharging luson" located according to D. Jackson's theory, to the motor require, and the rise of temperature. according to Hale while is in favour of this location. The poison would sever to have an action here.

offerale of Chioral has quite an opposite action on the brain. producing sleep "the pupil is almost invariably contracted, the temperature falls steadily and rapidly, and this fall appears love due partly though not entirely to be due partly though not entirely to be used production of heat for it still occurs though to a less extent when the animal inrapped up in coston wood, or is put in a want place", beloval has also an autiseptic action, and lowers artificial tension

deofessor Lushman of al. p. 774/5.

woods Therapeuties p. 215. (1888)

Neals Medecal Degret. Seel. 376-4 p. 210

Brudon's Therapulies p. 717.

No Do fr. 156.

That bem very strongly recommended in the treatment of Convaloire disorders of prequancy and childhood, and in Tetanus.

"The sedative and narcotic effects of this drug are well known, but it is not so querally understood that when it is produces an anaesthetic effect, under the influence of which a woman may be delivered without experiencing the slightest suffering. We can without heritation corroborate much that has been advanced of late in regard to the marvelous effects of this drug in the heatinest of convulsive discuses"

alsopius, affects heat production, causing a use of temperature - the uneased hear production of wood who is an advocate of a hervons theory of present refers to the influence of the drug on the nervons centies. A temperature of 110° F has been registered in Benadounca posioning.

When large doses of chrosal are given "the temperatione gradually falls until it-ean 'no longer be uncosined by an ordinary clinical Thermounter"

Browide of Polash dinuismo The racitability of motion centres, so that convulsions cannot be produced

Surpral Eclampsia. Bot. elled. Form. 91. bol 2 h. 987.

Maleria Medeca Merapeulies. 3° Top. p. \$ 334

Gry + Ferres. Formere mediens. p. 520.

Renshaw London 81. Lawin op et: p. 258. by irritation of the cortex, in expendents with logs (Albertoni). Surace loss of atropine increases the Excitability of these centies and convulsions are rasily produced, and by an alkaloid of this type and in the proper dose the condition known as the "convulsibility of the property inight be produced, or exagginated.

moduced, or exaggerated.

Ou this theory we wight explain the high artinial turnion factor so ably advocated by D Barnes.

Alsopius in not loo large doses has a powreful action on the Creulation, acting as a stimulant to the Vasomotor centre. White says "the heart becomes excepted and the vascular system stimulated (Standing 12 pet from or patient the writer has heard the heart sounds) - the arterial system is linsion is at first raised, but large dosse paralyse the vasomotor centre.

Arapid pulse occurs in Buladouna powering.

in Eclampsia the pulse varies from 100 to 140 and

Even this last number may be exceeded"

This condition of the circulation is the foundation
of some of the thraputeal aguils used in the

Cassillo Year Book of Treatment. 89. p. 262.

also Parvin p. 261.

bassells year Book 100 Cartis fr. 81. | godlekenzie fr. 94.

Manchester Medical Comoniele, July 1892. p. 263.

About Gendro, "Ona pathological cause of Surperal Eclampsis"

Nathenbach "on the chology of Surperal Eclampsis"

Ceutralblatt f- Gynakologie. May 21. 1892

heatment of Eclampsia. Venescetion. Such drugs as Veratrut, Aconile, Auturony, Morphine Aulipynus, Calouel may an have an action de this way. One writer recommending beraine unide says: Experence has shown that no convulsion will occer y the système is suffeciently under the drug to hold the pulse under sixty per minute" ellosphuis has au ausagonistie action to alsopuis but not to a lethal dose of this alkaloid, but it is contraudicated therefore y there have already bru a minubes of convulsions, and if there is coma. I has been used in Maerica with Good Effect by M'Kuzu of London. and aunican physicians use du heroie doses.

d'osler speaking of itsuse in maenica says Thave ine Mis remedy Extinsively and can speak of its quat value un such cases."

Kallenbach and Gendes experimenting with cultures of their Eclampoia Bacillus, get confundory usulto. In rare cases the respiration because slow, and death occurred after q to 20 hours, Gendes

then found that by preliminary injection of a sufficient dose of morphia, the life of the bouillow."

Lander Bruston Therapulies k. p. 905 Handbook of Therapeulew. by Sydney Ruger UD British Medical Tournal. Vol. 2. 91. p. 682.

atropine has been shown to have a powerful action on glaudular structures, affecting the salwary glauds, the sweat glands, the mucous glands, the panaeas and liver, and in his beclures on physiology S. McKudrick mentioned that atropius administration lé anunals produced albunumines, indicating he Thought a paralysing action on the reval cells Brunton explains this action by a paralysis of secreting fileso, but Ringer pourts out " that the alsopia may possibly act directly on the gland cells, this hypothesis explaning the fore--going facts as satisfactorily as does the assumption of the existence of secretory filses" D. auvard's (of Saris! Muory what Sumpral Edampsia is obviously me resuet of a strike on the part of the organs of Elimination, a cessation of function which may be us meted to one of shew - the Kidneys or the liver for Example - huce the frequency of joundice and albumina in association with this malady; or it may involve the Entire apparation of

Laudois + Stuling of at p. 324.

Lander Brunton. BNJ. 89. 62 p. 66.
also signes on pages 68 469.

Laudois Stilling. of al p 315

D'Leshwan of at p. 260 h 773

Carsul Man' Book. 89 p. 81.

But the liver has other functions than Elinimation, and the blood practically from the unestural canal bearing the products of witestinal and gastne digestion, must pass through it

I has the power of arresting, storing up, or destroying plomaines regetable alkaloids, these organic poisons are rendered ment by combining with Glycogen. and as mick will quickly supply this, it is preprable to Buftea in "valuemie" poisoning ~ for buftea simply increases the poison and forms no Glycogen.

The appearance of the hepatic cells diffus in the pusting period and when they are busy. absorine and lead-acetate have the power of whititing the signs of activity - the autagonish of ahopine, unscarine and pilocarpine produce quite the opposite effect, producing the appearance of activity row in a fasting animal. Salicytate and Buzoale of soda act like pilocarpine but not so markedly.

Frericho recommended the use of Augore acid, to muchalise the carbonate of annuonia, and Augorte of Soda has been found of soviet in the heatment

Lander Brunson. BMJ, 89. Volis p. 69.

British Medical Doumal Supplement. Sept 17.92 p. 47. Injections of Strychum in Cholica. French. Mullen Su also Wood p. 755.

Woods Therapeulies p. 751

of unaemia; two drahams being give in the twenty. from hono. By the wouth or Enema. The latist development of Tharmacology is the Thannacology of the cell " and the antagonistie action of onegs is probable in other seneting or Eliminating organs than the liver The heatment of cholera by injections of strychruns was during the last epidencie proved to be useful, but when the renal senetion was not thus re- statlished. pilocarpine injectéd hypoderunically had the disired good Effect water being passed within five minutes after the use of the syringe Il is more than probable that a "strike" on the hart of the organs of elimination, one or more. might be brought about by an alkalocal of the ahopine type, not only we then Elicinating but their other functions also Silvearpine has quite au opposité physiological action to alsopint affecting the alls of the salivary glands, and causing

increased scretton of are the glaudular organs of the body.

BMJ. Feb. 1890. p. 420 ~ Wood. p. 755/6 of cit-Sawin of cit f 261. B. Med. Jour. Vol2. 92. fr. 681. acase of puerpual Eda

Silocarpure has proved useful in Buladouna poisoning, and is useful in the treatment of Junperal Edampsia. In a recently recorded case de action was very marked : other measures had aheady but tried messeesually "Pelocarput fits was injected into the arm and as the tumperature was 103° F, the utinus was contiously washed out with weak Condris sluid. The Espect of pilocarpent on the heart was very noticable recalling to wind the pulse and heart-- Sounds at the termination of a fatal case of diphtmenia. She had no convulsions after the administration of pilocarpine" The first organ, however to strike, in my opinion is the rection. Constipation is common in prequancy, and may be Either a cause of or the consequence of udigestion; in many cases it is the resuet- of carelessness a habil" is soon formed, for these alkaloids soon produce au alonie stâte of the unoluntary unscular files, and well have de D' Coals on Discases of the flacenta Manual of Sathology. 2nd Edet

uo good effect on the Epithelial cells, which as we have noted have important functions to perform,

If an alkaloid like alsopnie be

If an aekaloid like alsopine be absorbed, the lives suffers first, and if the "glycogen compound" is doled out all the other tissues and organs will suffer in their mutilion; the Ridnery may, or may not, be able to Eliminate the poison, and albuminuma may indicate a paralysing Effect on the glowerular Epithelium

The placenta is a semporary organ of senetion and Elimination, and its lissues are most liable to dequination than the lissues of the mother, resembling in this respect some of the cancers. Disease of the placenta is often associated with albuminain, and I think both are due to a common cause. Did the chied produce the poison, the placenta would suffer from much most marked and extensive

Youch on Disorders of the Mund of lying in women Diseases of Women + Children . New Syd Soc. 1853

p. 61

71

h.81. 82.

Dal Farguharson. Homains - Cluvel Chapter

Winght Bristot. 1892. p. 99 et seg.

dequeration than it usually presents me such cases, for there may be very little

Sunperal mania is also frequently associated with albumininia, and I was struck in reading over Goods lectures with his runarks as to proquesis of that form accompanied with a very rapid pulse, and fiver

Among the causes he notes a disordered Stâte of digestion.

In Case 8. X. The condition followed Eclampoin It recommends among other things pungatives to "swacuali gastne and intestinal impurities", and opinum as a marcotic - Modern asylumb physicians now recognises on a plomaine Theory the unportance of emptying the lower bowel regularly and the use of intestinal antisepsis.

Ifly years ago the idea was - that the

conditions now thus heated were due to "functional disorders of the digestive appenatus" or to

The aguicy of a poisonous secretion on the

Cassels Year Book. 1892. p. 365. Josef. Suits

U.S. S. Nolis

ulistical newes.

So we und not be surprised that calonul, which has both a purgative and anticeptic action—and duectly or indirectly lowers articial tension has been recommended and used with success. In the case referred to "the heatment consisted of heroic" doses of calonul; be grains being given to a young get of 19 years in the hunth month of prequancy. "With the onser of dianhoca the convulsions began to lessen, and complete recovery twowed."

Will the ruma, which when meessary we find so useful, not have a somewhat similar action?

Calouel in a large dose I have found weful in infantile diarrhoca. Deishman in his lectures on Dinasso of children carefully pointed our than large doses had a sedative Effect. An old country practitioner, than I know of heals ouch cases with one graine of calouel very hour for three or four hours followed inneediately by a dose of lastor oil. So in this condition of loaded rection the

Cassells Year Book. 1892 p. 368.
Ehrhardt and Favre

* Bmj. suppr. Jan 17, 1891. f. 18.

use of Belladouna - combined work Nux Vounca and with alows or Cascana - might prove of much service.

I have hinted forming my opinion from
the action of opinion, antipyrin, or quinint un
cases of "false pams"— that there may be the result of
a loxacuia. But can the same prosone
acting on the non-prequant woman play any
has in the production of the crampish have
of desinenorshoea.

in the prequant state is precuded by equiplosus of Endometrilis, colicy pains and Emersthoea. (and as usual associated with alluminaria of prequancy; in liventy cases of albuninaria the placenta was diseased in nineteen)

But if the paralysing action of an aekaloid on infistual epithelium cuts and it on hepatic cells be admitted, it is not difficult to see that the unicoerganisms may get with the circulation, and be excepted by the kidney, and found in the

wrine; or finding their way to the weint

Galabin. BMj. Sept 26. 1891. p. 679.

F.M. at Glasgow materity.

the conditions being favourable to #

Their growth.

Ju prequancy, the paralysed cells of the placewia, will form "a good soil."

From both those colonies the maternal organism unight be reinfected, and cultivations of these bacteria or micrococci myected with dogs might produce the

Blanc has found a bacillus in the unine of women suffering from Edampsia and experimentally produced the disease in prequant rabbils

Jupelions of the sauce culture into none prequant rabbits produced only local symptoms at the sile of injection.

Rabbils have little susceptibility to the action of this bacillas in the prequant state is fatal to them

In postmosime examination every tissue and organ is swarming with micro-cocci, and I have sun it stated - I gorget where -

For aresunt of the "genn theory" of Surperal Edampsia. Vidt Manchester Medical Chronicle for July. 1892. p. 260 et seg. (Stiff, 20th oct) Cossils Year Book. 1892 p. 367.

Vide BNJ. 1390. Aug. 26. D'Hale white
" " May 3°. p 1041. Rof Mealister

That colonies of minococci have been noted as occurring in the lives in Eclamptic

O'. Blace has made experiments regarding the lower of

the unine in brequency - I must be noted (11) that he uses the

unine of healthy" women during the later months of prequency

(21 the list is made on rabbils, herbivorous animals, and the

liver changes and plomains absorbed will differ widely from

those we the dog- a carniverous animal. His experiments are

in no way infaremate to the theory I advance.

With the cell as with the widwidual, it is not work that kills but worry, and to this we unight compare the action of alropine on a secreting cell. The cause of death of the foelus is paralysis of the cells of the placenta, preventing cell-action by which unfiltion and perpiration are carned on, the poison being aided in its action by unchanical rehunical conditions, brought about during the fit; the high tumporature is valso an assigned cause, the higher hear centure are undeveloped, the child in whis being in this respect a cold blooded animal, and prenaturely born extinual warmth is necessary to keep up a natural temperature.

Desciul- Skin activity occurs in Brights Diocare; The pale sace and analence condition are very charactivistic. Assopine in small born is estimulant to the baso-motor centir, and has a simular direct

action on the involuntary unscular film, so it might aid in this way in producing "the stopcock action" of the asterioles described by Sn. George Tohuson. Brights Disease is most-common in a cold moist climate. WE Know little of the meteorological conditions as to how they effect the physiological processes going ous in our bodies: how om bilious and theumatic patients make such ulians barometers: how unoons headaches so frequently accompany a change of weather, some such people are mismable at the sea-side and are happy and confessable in a high inland district Ou East wind finds out Everyone who "has a liver -Obilions diashesis is described; dark complexion, black hair. skin thick and muddy with a large development of piquent, the eyes dark - a still more chronie forme of ahopino. poisoning" than we say occurs in Suespenal selampoies. The figuretary changes in prequarely art more marked in people of this type. Now many of our philisical palents art of this type? The Tubucular diatherio - the good soil is produced by this chronice poisoning paralysing the protoplasue of me cello concerned - during their resistance "Their digestive caual is the bank of their life" (Forkergiel) and the condition is heriditary - the view of structure or functione - The constitutes habit - may all be handled downa continuance of the same habits and customs, 29, as

to sating and drinking Kenpitup. Your is heriditary - the typical heriditary disease - these is do no doubt that diet renstorms have qually bodo in its production. Living on sixpunce a day and working hard forit will cause the condition to disappear the cells on whose functional deserter it depends west to their BMJ. Volij 1890. f. 1120, Entirely agree with to stary this the aced Theory accounting the for Eclampsia - there is an underlying cause common to both. Runger Goul can be produced artificially by the use of lead sacts, opar h 236. " Box! " In sea forming & til my is not measure and "Epel " In seas forsoming Epilepsy is not uneonemone, and in fits developing in the aduct the possibility of leas possoning should always be considered. An acute delirium may ocem with hallucinations " (Obs of cil- h. 1010). We noted that the action of lead on the hefatic cells was similar to atropine again the renal cell - mat "protoplasmie sieve" would Easely allow of the passage of the comparatively simple mie acid molecule, while the continued action of a paralysing agentwould be very detrimental. This acid has perhaps an affinity for filrous lissue, and is perhaps a cause of that hypotrophy of normally unisitle supporting connective lessue, which is such a conspicuous in the chronic form of

Bright diseast

do distinguish between hypical Epilephiform and Epilephicas fils is as easy as to distinguish uight from day - the defliculty is to draw the dividing line. Epilepsy in my opinion is a more chronie form of this same poisoning, Chleroform affects the different parts of the newons systems in the inverse order of their Evolution - alsopine Shave no donot acts similarly. The most acute form of alsopine poisoning; the two higher centres being paralyses to accompanied by lowest level fits" which are induces by attempts to swallow (Lander Brunson. Therapeulies & fr. 904 My the convulsion is Epileplic or Epilepliform is us quat- measure a question of dost - and of tolerance. Comparing the bain to a double - barrelled gun - in the genuit Epilepsy - the highest centre deschanging calls the motor centro of the middle level into action simultan sously both banels go of at once _ in the epoleptifone the Discharge is not simultansous. In the rapidly developing epilephisour of pumpual eclampsia — the signal symptoms is usually referable to the face - the left half of the baies is the first part to discharge - anothe fit is usually universal. The Epilephisonu character is not so wident in the facial movements (suplained Ithuis by a consideration of Broadbeuts Law. Jos which see Bristone Medicine 5th 20. / 933)

as on the movements of the truck and lunds, when the action of the right- stemo-mastors musele so turns the face That is looks over the lest shoulder - the action of the lest comes into play later with an opposite action and the deviation of the worth to the left (Bailly) corresponds to the latter action. " Epileptisome fits begin in the "animal" honts of Hughlings Juckson the body and commonly in those which are most animal" or in other words "withose parts which have most h.765. Voluntary uses; in these parts which have great independence of movement; in short parts which have the greater unuber of different and more special definite movements as the greater rumber of intervals." We will admit That for most individuals the left bain is the more accimal; and though ungallant - but suggestive the movements related to the speech coulse and the facial movements are the most animal in woman - or it may be explained by the anatomical relations, why the for should begin there. 1 170. D. Jackson explains "that those centres of the motor region which especially represent small muscles (Eyes face + hands) will have a greater unuber of small cells Than those whech Especially represent the larger muscles of the limbo." It is easily understood how the untilion of

BMJ. ap. 5.90

such centres well be appealed by the quantity or qualify of the blood supply, and as Broadbeut and Gauiges Stewars- suggest- disturbance of the cerebral exculation may partly account for the sit- the stopcock action" of the artirioles, caused by a power circulating, aggravaled as the line of and by a uterine contractiona conservative effort to protect the bain by coming unto play suddenly might determine the onset of a fit au Explanation suggested by Kusomanl Sumer's Experiments, and by the radical surgical treatment of Epilepsy recommend and practised by to alexander of Liverpool, by removing the superior Conveal gauglion of the sympathetie. Wood opal the Eye symptoms of purporal albuminions h. 216. uight be Easely explained by this theory. We wast distinguish carefully the local from the constitutional action of assopine. applied directly to the Eye

hupil acting by paralysing the unstriped unsele (
sceept in birds where the unsele is striped) and
Wood p. 218 lowering intra-ocalar linision, an a fact we
make use of in the heatment of corneal alestapplying John Stilton's rest principle in ocular

it paralyses the accomodation and ditales the

Therespecties - In accountain - (which may be another ananifortation of this same porsoning) - among the present effects is a contraction and later on dilatation of one pupil - tapussing primary excitation and later paralysis of the curvial sympathetic. Absopine has a central as well as a local action, and with the state of the certial cortix another contracted state of the articles a contracted pupil before the fit would be expected.

after the convulsion is widely ditated.

W000 h 204

The listimony of femaltie "that congestion of the netina is an almost characteristic lesson of also puit poisoning to very interesting when we call to mine the Eye changes involving the return in purposal albuminia Brights disease where it may wente Sine in the preathmentic Stage.

The occurence of duespeal relampsia in plethonic individuals favorus the "lives and intersmal hathology" as opposed to that first affecting the kidney.

Definition points ont that this consistion of Plethora

is not our of health and is often associated with a gouty diatherio.

In conclusion show note I That the form of

poisoning is chronic, usually such a sost as produced au taplovive condition of the cell of the "unddle level". I the action of the poison is modified by chuineal and unchanical conditions. @ By variations in the blood pressure, Explaining parsey the onset of the pt-, and the presence of albumumia showing itself after a fit. (6) By the presence of Consonie oxide, which on the gastrie mucous membrane has a similar but uneses action than oby droeyance acid. It may Even show this action on the skin - discharging a syphon of analis walis has a local anaêshelie Espech. (c) Ozyque would sum to air the vitality of the protoplance and heep it to resist the effect of the possow (8) with the individual adminished blood pressure will be as detruculal as ont los high. Will my illustration be allowed? The pressure of a lail has sine affecting the blood supply so the scuep les this same poisonous aguil act at an advaillage, weifer ong with the withition of the hair bulbs producing baldness. Jaboraudi

sapples locally to autagoniss it, and liberate the proloplasmie cells paralysed by it from its trallow By the aiding action of Carbonie oxids I account for the increased Elinimation of Mea after a fit - to the countracting effect of oxygen Jasoubs the unprovement sem in philipical patients during a prequarey, when the lungs are so active - while after the birth that fell disease makes rapio progress As regards healacent - we wast not expect los unetroj an antidolal patrolog Therapentic system, quat- care and discretion is necessary. We care over cour au itch and produce au Eczema! avording sagila we week our ship in charybdio -Ofenative heatement must be prompt- and decisive Dieselle measures - miet dies- - intestinal waenation by Calonel - aided by Enema, and intestinal antisepsis - Suhalation of varyque and its administration in solution in preference to a Carbonie water. Auguene. Auceostheties. Chloroform. Chinal morphuis. Autopynic. pilocarpins. Augl Nitrile Consection will all be of use in what are consisend suitable cases. Diophoreties te ti

I revolued no routint of treatment for this condition. We mud administer om drugs, as Opie mixed his colours _ with brains" aroutino of treatment is foreign to the traditions of my alma ellater - to think of which only brings Echoes of voices - ringing in my taro, from the "chairs in these old class rooms. How often has the importance of Pathology"
ben impresses upon us ? "I is menubent on every one who under - takes to cure disease to know something of its real nature" How ofthe has - our worthy professor of Practice of Medicine from his rostrium or as the bed. side warned us against heating the "rame" of a disease, and neglecting areal pathological condition! The ovice of one who is away - but who though dead yet speaketh - instructing us To remove the cause"; " Jut the part at rest" To compare corresponding parts - many of us will never forget. Nor have subline an atomical theories been without their practical less on - the legamentons action of muscles passing our live

jourts is only a manifestation of natures Consuvation - "artino capillary filosois" so an expussion of the same fact. Nature always does the best she can under any circumstances. From an enelogological point of view, is that pathology rational which looks on the heart as other than a modified blood vissel? Now care there is a purely herrous theory of pyrixia, when the head in health and disease can only be produced in the protoplasmic cells of various trasues of the body? fel such simple, homely and sound advices, as has but referred 6, always guide tracher and laught, and Glasgow Miniersity will have no cause to blush for Sohn Hillon's shout of "Rest" ought 6 be NE- Echous by the physician and by the sungeon, and be stell mort recognises in Therapeuties than it is. Helton's idea is not original - The Great Physicians prescription is "Come weto the all ye shall about and are heavy lader and I will give you priot." Jake my your mon you to a start with a deeper and more beautiful unaning that our English words wiphy, and a fitting foundation for Every lecture on Therapeuties

Thave set forth this eshoughts, convinced that this is the Sathology, not only of Eclampsia but of many at conditions. The principle can be elaborated indefinitely. Intag Unflammation is a poisoning of Protoplasm N. Aughling's Jackson's "physiological fulminate to a degeneration - the degree of inflammation is a matter of dose - this first or paralysing action of a so called virilant to the starting point of our dequerations - the Explanation of Diathesis, that expression of diminished prosistance, the recognition of which is of so much importance clinically. - There is a worm at the root of the tree a slow battle is being fought, in which not only the individual but the race must succureb. Man may despise the micross but it eventually will and always does master him in that fight. We physiciaus are leading a forlorn hope, let our motto be Nel Desperandence. Let us always try to do our best. - all flish shall perish Together, and man shall turu again unto dust." our bodies are mostal - the spirit returne to goo who good gave it.

Surperal Eclampsia: Delwer : Falal termulation.

This case which was seen by use in Sept. 1886 in the Callon district of Glasgon is vividly impressed on my unwory.

I was stul a junior student and had very oude notions of the Science of Obstelnes . At the request of the house surgeon of watched the case for a night, and administered the avaesthelie. Terrember neither Name or address of the paleeut.

She was a stout, strong plethonie young woman, a principara, and in the seventh month of hir pregnancy. There were the usual cinticedents, the dropsy . to and probably albumuna, but she was a materially case and so the history was not Known so well asil mught have bene, has the faline been known to, and under the care of a private practitioner.

on a day or two she has complained of head ache and unpairment of Vision. but still Endeavomed to pursue her house hold dulies, which work very lightHor husband had left has in the morning, and had not thought anything of hat condition, but coming home at mid-day was alamud at the condition ohr then was in; she was found lying in an unconscious state on the floor, and occasionally in convulsions.

Assistance was sent for to the Materily Hospital and in time the was delivered by & Malcolus Black assisted by & Conway, and the Resident & Slichards, with all possible speed instrumentally under Chloroform.

Large doses of Chieral Bromide were administered Chieroform was administered when Twitchings of the muscles showed a convulsion imminent.

renescelon was not carried out. She having lost a good deal of blood with the placenta.

enfavornable.

Abort for the first time I had the opportunity of first observing the Convulsion, the details of which were dumonstrated by the House Singeon. It was typical of the condition, agreeing with the description given by Deishman, in whose less book I there, in

connection with this cast. Studeed the question Commencing with contractions of the facial unsiles of the whole body, forlows and Eyeballs, + gradually involving the whole body, forlows by an en comalor condition, with widely vilateo pupil + Stertrous breathing. Sonie contractions were Duccuded by violent chonic contractions, affecting the whole body. There was complete loss of consciousness from the first, and it was never regained, and this state conjumed until death. The cornea could be freely fungered and no contraction of the Eyllid occurred in response The limpuations vamo from 102° 7 to 106° 7 ans rost gradually as the case proceeded. The wint was very scarty, of high specific gravity very dark coloured and loaded with Albuneu . She died 36 hours after delivery

Suesperal Eclampsia with history of provious attack Controlled by heatment. Easy labour 2 days after

ell. D. act. 35. multipura. 4th chied. was seus

History of Eclampsia in previous labour two
years ago, a very reurolie emolional woman
of good birth and Education, un comportable
circumstances.

She was in the much worth of her preguancy, and has no marked premonetory Symptom Except headache, and slight occura of the auxles. The nune contained 1/3 albumene as I did also on the previous occusion S. S. whom I was assisting, was summoned to attend her at jam. as compalsions has set us ~ Towher next morning at 8 a.m. she having bace under the influence of the anaesthetie, and convulsions thus prevented all the night. No chloroform hav beue gwen ouce 6 a.ue. and Shrwasquile conscious, recognises and conversed with her husband and the nurse, quite susibly about 9 oclock a typical Epileptiform suzure

was induced by a digital Escaumiation. The patient not being under the influence of Chloroform. This convulsion certainly was accompanied, and probably in some measure caused by a utinite contraction, distinct Evidence of which could be felt by palpating the utines.

The or uten was dilated to the size of half a crown, but was very slightly affected by the uterine confractions.

Browiede of Fotash (f. 30) Hydrale of Chloral (f. 20)

werk ordered in a mixime, and the chloroform

administration was kept up whenever any twisching

undicated a threatening convulsion and thus

any jurishes attacks werk effectually prevented

Jowards Evening She feet much better, complaining

shill of the headache. Antipyrine f. xij gave

quat releif.

Larnest, and the symptoms so favornate, I was detirmined not to interpret, or hasten the process in any way. Polis imperialis was ordered and the amount of minary secretion became normal star diet was proprieted to mick. and other

weeasenes were adopted with the object of Saving the kidney as much as possible.

Brouide and choral were now oney given twice a day, at night in the morning.

She was delivered of a healthy boy two days after. The labour lasting some 15 minutes and only the nurse being present.

Dr my anival, she was suffering severely from after pains, which wert innucleally relieved by the removal of a clot from the utinus. noing due autoseptice precautions. A fity Morphia Suppository was introduced into the rectime, and the bandage finally applied the made a good recovery

Surprial Eclampsia: Hypodemic mechon of Morphia

Many Meg. act. 20. principora, muianies. 6 dune St. S.S. Glosgors.

Au out door patent with practice of the Glasgon ellatinity Hospital, was altended by M. W.D. Rankins and another, Students (of Eduburgh Muiv) they found the woman suffering from severe pains, short severe, and are at the lower part of the belly. The continuous alithe dilated.

and the rectum was full of facers.

Au Eucuca of waver water with some soft soap was
que, which broides especially Evacuating the
rection, acted as a most dieded stimulantlo
whime action.

The head was still above the brue, and had not engaged. The antroposterior diameter being somemat enerometed on by a slightly projecting promontony. The libiae also gave indications of a rickely possibilition. The or gradually dilated and the head Engaged rundle paronaste

progues. The Just Jet came on at 4.30 a.m. developing very suddenly, followed by a short period of uneonscious ness . In about hacf and hour another ful occurred during which the child was boni, but was dead.

askind convulsion succeeded in 45 muntes bringing away the placenta, and a large clot. a fourth convulsions occurred about 10 a.m. and was as the others had been - a typical Eplephiform convulsion.

Mosphia acetale fig. (Burougho Wellcome + Coys Tablord) was administered Hypodemically and the following ordened Ly Chrome Stydrale 3111

Solar Bromis 31

Shycumit 31

Sign alakespoonful wong 3 or 4 homo as required

There were no more fets, the Morphia was not again administered , and there were no Ancataings of convulsion indicating the use of chloroform. though the sludents remained wish this patient in case this night be necessary Glosgow Medical Sminal 89 vols p 231.

The highest temperature noted was 1040 J. The wint contained albumen, though the quantity was swall. There was no ocdema impairment of vision, but the pateut complained of headache during her labour Sept 14. Palisus has had a good might, only above of albumen we the morning sample of nint dept 15 Salerel, not so well, has a bad night Lapra pulst. Jemperalent 100.5. Judences on present over useus and lettle descharge, but smelling sweek. quemus fi 3 dessolved un sty Dobromie accel weny 6 hours. Marphia Suppository fi's introduced a Wanne formentations sprinkled with Landuaum applied la abdonnen The breasts work treated with the local application of Belladorica, with oupport and pressure The relation of Wering consultion to convulsion ouggests that one was cause, with the other as Effect. I Maleolin Black has sem an attack of convulsions defenuived by the administration

This paleul made a good recovery.

*

of a dose of Ergoh

Coot No iv

base of Sunperal Convulsions. instrumental delivery.

Mr. D. act. 35, 8th child. youngest 2's years, misearninge 5 years ago. was sent into the Glasgow Maternity of the prival Supering from Juespeal Convulsions

She had suffered poor droppy for & months and had been complaining of her Tight Jailing during the previous week, and also of headacht.

Lonvulsions had set in suddenly while bulking at her Evening meal. The just fet lusting so minutes; She had been sensetle only once since the onset of the convulsions, shortly before leaving home for the Hospital

Annual surject from a convulsion in the ambulance bar on his way to the hospital. I.V. Examination shows the arrive soft and patulous admitting only the point of the finger. At 12.30 a.m. a fit cause on, of the

typical epilepliform character, Chloroform was

in check by it if given before they developed but if the patient was not under the influence of the avaisthetic and the fit got a fair slast. The chloroform had absolutely no controlling power

influence of the avaisthetie, until delivery who morning at 8 a.m.

D'Wind Ried operated, using his own auto posterior axes traction forceps, applying Them after he had win the jungers sufeccully dilated the or to allow of their application During the night want formentations of degetalis leaves were made to the louis. D'Reid recommended if another fit occurred that atrial be made of Veratrum Vivide the figured Extruet in a dost of Miii, repeated hously according locks Effect on the pulos. is being stated, that there is no kar of convulsions with a pulse moder 50, while ef il were our 80. Mue is danget, amounting Even to a certainty.

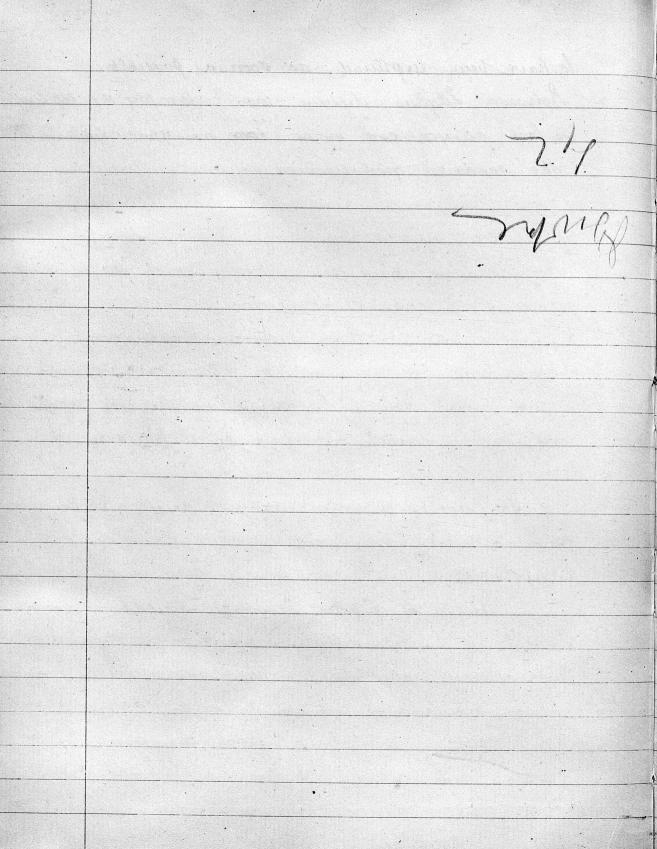
oft Saw however that the membranes oright

THE CHARLEST STATE OF THE PROPERTY SEEDING STATES * & Slown. me Glasgow Med. Toumals 1/87. p 232

lo have been suplined, as soon as possible

* Rosessor lagans dichun was "Emphy the usens
as fast as you can or as term as you can "

the made a good neovery.



Surperal Convulsions of the 5th month. Death.

Mr. G. Kinghom. Fife. al 40. 3-para youngest chied 10-years old.

Haro working. neurolie, worrying woueau, in the 5th worth of pregnancy

Complaining since the End of March 90 of being out of sorts, and duading in authorpation her labore, as on both purvious occasions delivery was instrumental on account of randowing of the pelvie brine, necessitating the use of the long double centred forceps by D. Walson of West Wennyss fife.

The was a woman who keps hersey pully much to hirself, not mouthing others with her Complaints.

Swelling of aukles, affecting principally the left, work or less - dating back to the british whom I thuk consulted to Welsh of Kinghom, whom I thuk assisted, 3 or 4 days before her death, the Biduna then affecting the legs and even the bulva, and dinselve treatment was adopted

For years she had complained of steadacht, but al this lune it was much aggravated. ho Epigastrio paren Vision but slightly unpaired, but a prefiness about the ryes, due to occura The convulsions were typical Epileptiform and wist 7 in number Nº 1 May 23/90.12 misnight. Bromide & 30 Chloral & 10 - weny two hours "2 " 24/ . 7 a.m. .. 3 9.30 " 4 4 4 12 noon " 5 " . 2 p.m. Bromide 640 Chloral 630 " b. " " 10 " " - abostive fit during dilation of or 7. . 25/ 2.30. am ded during fit Nelsh, on the ground that those was albumen un the unut, objected most decidedly to the use of ellosphine. Sanie recommendo this heatment and large doses have bun given with good Effects It is an old method revived. The sauce Treatment has been used with much success by No Trephu Mackinzie of Jondon in Maeuna On the continent albuminuma is not regarded as a contra-indication to the use of Morphine ог орине

whe Evening. Here being no sign of any improvement we decided on immediate delivery, and with this object in view She was brought under the influence of chloroform. The dilatation of the os uteri was only accomplished after very great difficulty. Banus Bags wur not woed. Manual dilatation of the or with chloroform pushed as far as consistent with safety was as last Effectual: at tast the 00 yielded very Easily-noually rigidity of the or is due to spasm and yields bed to an oprate, or other sidalive such as Chloral ~ under an avaesthetic, or to Buladonna locally applied During this delivery, It is useresting to note that an aborture convulsion occurred, affecting the facial muscles and causing a hundred movement of ont olde of the body, but the paleins being duply under the influence of Coloroform it did not develop ,

The cheed was delivered by Turning, but was dead;
The placenta gave no deficulty a good uterink
contraction was obtained. A Bandage was applied
The was compared unlit her death

which occurred at 2.30 next morning during a convulsion

This was an unfavornate case from the first. She duaded her labour. She was a Dyspeplie and suffeed much from consepations Even when not pregnant.

bases of purpual convulsions coming on during pregnancy are recognised as being of more faral prognosis than shoot developing in laborn: the Earlies, the more grave the prognosis

base of albumunia, Heavache ruspained Vision

Mr. WM. at 20 prinipara. Broxbum.

consuered wer in her first pregnancy, shortly before her
expected delivery complaining of ordene of the legs and
quitals, imparament of vision amounting almost
to blindness. The unit was loaded with allument
and almost solidified on boiling

Oht was a very pale anaeune girl, and a systolie unumum was heard over the pulmonary area. Alond unous hum was heard in the nucl.

The was put on a Mick deet with the view of giving the renal organs as little to do as possible. Rest in Bed and the administration of July Jalapae Co f. 40, occasionally was presented to regulate the bowels.

Amakure containing. Inclure of Digitalis. She Etheris til the Inclure of the Perchlonder of Iron was gwen regularly

Lavue recommendo a such casso has the festive should be instructed to be in such

a way, that the uterus may gravitate from the Kidney and so relieve its criculation.

The abdominal humom was very large, and the condition was undoubtedly canved, in qual measure mechanically.

Muder this treatment she improved. dabour was natural every Easy. he membranes

were resplaned when the or was fully dilated by theme, and the child was soon Down.

a second child , breich presentation, was delivered had an how after the first. The arms being

brought down and the head discugaged in the usual

way

delivery of breech cases with the pascent on her back, I to so much more convenient.

The restriction in deel was kept up for some line, post as in heating a case of Brights Disease. The Sweture of the Inchlorate of Iron work Suephali of Magnisia were given in the form of a misching for the anaemia for 3 months afterwards for the anaemia.

She made a good neovery way

fabour man Eplepsic. no fils.

M. D: Buchwood Row, West Harlepool. act. 30 Multipara

Au Epileplie from childhood .. before marriage the suffered much from dysmenorrhoea, which sometimes determined the orset of a convulsion

Her mustand was very anxious to have children

She was not, and sexual excelement due to coition

moratly produced an Epiliphic fit

The presence of occura valbumen who must made then occurrence probable.

She passed knough a normal labour without any sign. When the head was well down, the forceps were applied on account of receives involve, sumply to keep the head over the perinaeum.

Au Epileplie fit occurred a fortnight after labour produced whe would way.

Sucrperal Convulsions. post partaux. Lecovery

Mr. S:- prinspara al 20 . Kinghone Had been en labore all day, lingering renarding very slow progress.

Nothing unusual beyond Exhaustion, palent fulful and somewhat mysterical.

Chloroform was administered and she was delivered with force ps. without any trouble, the third stage tasily managed by Credis method

An how after delivery the has a slight convulsion without her awas well another her awas world and her face was all drawn to one side; It affected the whole body the was comatise, thus condition passing into sleep. Suephonal fito was administered when the awoke and the had a good nights oleep.

ofter account was uninterrupted

a similar cast was lately mentioned to me in consulation. The woman was a multipara whose lation was very safed. An hour after the buth she had an Epileph form suggest whech became minoroal twas jollowed by a period of miconscious miss. The fit was twice repeated

4. Munch prefer quinine, Engol raisis arteral huisian

but ded not ulum after Bromide + Chloral had

After a very rapid labour, and most especially of Mert have been annoying false pains prior to the proper labour setting us, and also sometimes after forceps cases sometimes. Severe after pains set in ... Case to 2 is an example of this; in a case attended by a muse from the majority in lagger of glasgon. Thoublesome pains kept a woman uneasy for a fortnight. Labour when it did come was rushed through, the after pains were very severe and only releived by a styphosime injection of morphia fig.

Ju similar cases I have found quining fix all were before or after labour. Expor after the were so it tempty is good treatment for after pains with a bandage faudio observes that he next saw Convulsions commence after labour y the bandage has been properly applied.

The condesions peculiar to pregnancy .. wy the high arenal tension. perhaps accounting for the slow pulse those noticed, the heart being so strong, relatively, that it can work lesserely

as also does the high state of nervous tension.

The Exerting cause less us after pains painful ulume contractions.

after paus should be treated by cleaning out all clobs, and Endeavorning to get good whenk contraction applying the bandage carefully morphia hypodimiently or by suppository