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### Dissertation on hernia of the indirect inguinal variety

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The Subject which I have selected from the long list of diseases is herma of the indirect, inquired variety. This is , one of the most important Subjects within the province of Surgery, mes the life of the patient often depends upon the scientific, and practical knotidedge of his surgical rullendant. It is not my intention to enter inte a minute, and detailed discription, het mente la notice its most important characteristies, and modes of treatment. The term hernia usually signifies the protousion of any viscus from its natural cavity, and when used above refers solely. to the abdominal; but we find an ex-- ception to this as we too often do in treat-- ises for medicine, confounding the stee-- dent and throwing obstacles in the une of his scientific investigations. The man have a portion of intestine en-- tangled, and constricted in that

lumina of peritonoun which is reflicted over the intestinal canal exhibiting nearly rall the rational symptoms of that viseus when protonded through its parietis, and yet remaining wholly within it's natural carity, This form of hernia is situated of the lover pertien of the rabdomen, and it is there that the previetes vary in several respects. Upon examination we find the lower border terminating in a legament (Called Pour parts), which is formed by the rounded border of the tenden of the external oblique muscle, extending from the unterior superior spinons process of the when to the pubis. Immediately lyine it reaches the puebes if bifiercales our by making its inser-- Siese at the spine, and the other at the ungle. Thus a triumquelar space results which is Atrengthered by

tendinous febres thrown across its aprex forming the external abdominal ring, There is also an internal abdominal ring which is formed to the transversalis fascia. It is situated whoch half way between the unterior superior process of the iliem and symphysis pubis, and half un inch where Pour frests ligament. Connecting these sings is the inquiral Canal, which is about one and one half of un inch in length, and less their one quarter in width, the di-- realien of which is obliquely downwards towards the medium line of the body. The flow is formed by the transversalis fascia, and the covering by the tenden of the external oblique neuscle. Als internal infice is closed by the infunctibiliform fascia, and the external of the intercolumnar fascia. In the male it gives passage to the testick in the clescents until the sorotiem, und

afterwards contains the ins defenne, spor-- mulie vessels, and nernes; in the finale it tentains only the round ligament: It is through these as they seem to us deficiences in the abdominal parides that this form of hernia escupes, The rogans most heible to hernial protressin are the small intestines, omentium, and wich of the colon, but all of them have been found protect ded justially or entirely especially in cases of congenital deficiency. In the majerty of Cuses the humal sac will be found to contain a purtien of the small intestine, with, ir without the comentium. This rocus has a greater preeden of motion than any of the other viscera, and by wither of this free motion and its specific gravity, together with the pressure existed on it by the other organs it has a constant tendence to protousion.

Thus we find it commencing at the internal abdominal ring, pushing the pentoneum and infernalibuliform faseia before it, entering the inquinal canal in connection with the Spen - malie come in the make, and sound legament in the finale, triveling its while wetent and energing at the external abdominal ring, when it developes itself by firessur on the surrounding lessus, or pusses down into the scrotim or external babia ferming the scrotal herrice in the mule and fre-- dended in the fernale. There we but the un pertant blood vessels in this region the efrigastric, rund circumbleza ilii asteries; both given of from the external elice just before it passes under Pour rarts begannent. The former which is the most important is quin off from

the internal pide of the external their, passes forwards between the heriteneum and transversalis juscia to enter the shouth of the rection which it presperates at about its liver theire, resembling if supplies that muscle and inosculation with the internal mammary arty. poils ascent it pusses immediately believen the abdominal rings and is aressed at its origin by the las deferens in the male, and round ligaments in the funale, The latter exises also from the external elicie nearly opposite le the sprigastrie. It ascends obliquely ralong Perspects ligament and curring around the crest of the ilium between the attachments of the internal oblique and transpersalis museles inesculates antisbutte lumber and inferior humbar arternes. The coverings of the bearing turner very in number with the differents authors en ranation.

By carful dissections almost any munchen may be found, but in the maginity cases they are considered as - six. Tomerecing yternally we land tack the commen integerment; under this fuscia superficulties which like the common integument extends over the whole body; after laying this ased me exprese the intercolumnar fascia which is composed of cellular, and filrons lissue and attached to the fillars of the external abdenienal ving, clasine if in the northered state of the puerts. Removing this we have presented to us lands of muscular films deparated from each other and running from the aper, to the best of the tumor; this is the evennester-muscle, which is a frant of the internal offique uning from the middle of Ponfarts legument sand forming a series of leyes upon the Spermulia berd.

Under this is the transversalis or infen-- délulyon fascia, und fieriteneum. The former is a leviner of cellular lissue which closes the internal abetermal mig. The internal bevering of perileneum is the serves membrane of the utdomen, it is like all senes membranes a closed Sac except in the female. It lives the rescend and is reflicted over the parietes of the abdomin. By it's smooth surface and Decretion it facilitates the movements the abdominal reserve. The causes are predisposing, and exiting, If the predisposing we have weakness. of the abdominal priviles which may be produced le varieur circumstances; then may be congenital mulfirmation or deficiency of the Junper structures, weakness depending upon some mertid, en heulthey actives, as absurses, classes, enjuries coursing a disintergration of the lizzens, distention from the pregnant,

ulines; agues some pertiens an realurally unaker their others was in the situation of this reviely about the abdumined mings. If the exciting comes wieles muscular actions depending when destructions in the intestinal ternal, passing of winary Culculi, und ineffectual alternate to roid the unine from disease of the farestate, Sparm of the splainter univer, strictures, Be. Minia is also presently precenced by witent bodily exertien, as when lefting heavy weights and the like expecially i the lissues rare related, or weakened by previous deseur purping from unsiderable highes with the muscles in a state of requirity when some firm body is frequently one exacting Course. Vinctina the intestine follows the lesticle in its descent and engages in the canal by one the internal ving closes. This is the angenital june. The simplions fler make their appearance

in the midely of Some wilent muscular contraction, the partient feels and something had boken or supland in the lover pertin of the abdomen, and upon examination a timen varrable in size presents itself, which may or may met be returned within the carity. If the minflumnation altending the laceration is no greater their usual in other frasts of the body from a similar Course, and the portion of risers readily returns the Lymptons will be of a mild character, and the constitution be but Alightly involved; but on the other hand if the perting nocus became impacted, and the inflane-- mation is so great that the circulation is impeded, and afterwards urrested, then we have all the symptoms of strangulated hernia, bir, those of prostration, reaction, and mertification. In the state of prostration the skin is ald, flatulence rand which pains with Dense of lightness across the aldonner,

a creat deal of uncusiness about the Stomach rand fromt of constriction, fulse small, viry, and rafrid. After the intestines are execualted below the point of Stricture, which occurrence glin gives the impression that there is no strictione Continual Streining with attempts to defecate, nausea, pale and distressed counti-- nance. There are followed by reaction. The skin becomes warm, pulse full, and hard, face flushed, cytrone restlermen, nausea, and remiting, first of the contents of the stomach, then bile and muceus, and afternants the contents of the upper fairties of the Small intestine. Theclerous on and about, the tumer which extends over the abdoman &c. After a runable time the constricted parts begin to mentify, the surface becomes met with furspiraling, thin

cold and clam, fucke any refuel - Small and Arema low. Hipperalie considerance, vomiting of great quan-- teties & lees, aldernen turnied, tenque dry, Geth courted, Intrictes lindinum, abdomen and lumer net tender but clusky red and unfily semations. If the tumer is in the deretien and is thaken the sound is like the one preduced by shaking preus in a blad. - rlow, I. It prein bouses and the fratignet thing that he will seeves soon As to the diagnosis of inclined, inqui-- nal homia it may be mistaken for several other mertice conditions Setuated in or about the inquinal reguin, as atcesses, energeted or diffused hystricele, of the cord, fally or other tumers, the dedicionents of the lester in the engunal sunal, and the direct form of ingunual himia,

It man who be laken for Colie, and other diseased conditions of the abdiminal J'unt abserses, I am absers should friend in the ingrimal burnet it would be distinguished from a tremed fintin-Sien, by the freezens symptims accem-- paning the formation of an absers, and the deft fluctuating feel of the lumin, which though reducible by pressure, and returning on long tring with a distinct impulse, jet does not present the solice character and gungling Andalien of a herma. im incretice or deffused hydrocele the bord. In this case you have a well defined tumor in the & remalie land, it connot be reduced with the carity of the abelianing and has no gurgling noise. The absence of a distinct in-- Juelo on conghing, the impressibility of felling the and in a free and

natural state, and its remaining for a dong line of the same size freunts it from hing confounded with humin. Jully or other tumors, These are ocea-- Lienally formed on the cord, but their distinct circumscribed form, limited Lize, and guing no impulse on boughing, with other general symplones make their diagnosis easy. The Lodgement of the dester in the in-- quinal canal. This will give no to a tumor closely resuntling a butonocele, and if it should happen to become influend in this Setuction, the diag-- mosis from strangulated hemie might he very difficult. But the absence of That organ in 115 natural fresilien, the Dickening freein, absence of gungling and the undisturbed condition of the intestinal canal, together with other Lymptens unich have been mentioned will usually present a mistake.

The direct, farment may be mistaken in the direct form is it is of long standing, as the trasmes between the sings by the constant pressure exerted on them by the tumer become condensed, and thus we have inclined, become derich by mechanical ourses. The men print to be considered in this case, is the position of the Arigas-- 12i astery, for if the homic should become strong whaties, and an opper-- atien be required care must be taken hob to revende it. When it descends wito the serotion it may be conformaled with first hydrocele of the turnica baginealis, In this cure the tumor is oral, or projern, usually erunslucent, unehangeable in sie er shafu by Janeseure, the cord clean and distinct above, absence of impulse on accepting, and gurgling in allements at reduction.

. Vincocke. When this is susperted let the patient assume the reclining posture, then place the rand over the abduminal ring, then upon returning to the up-- right pasition if it is homia it can-- mb return, but if variencele its will return because the veins are filled by the Spermalie arteries, Times of the toles may be disting wished by their delice geel and other huracteristics by mploms. In humatocche the tumer is solid, openhe fry reform, absence of gung line irreducibility &c. Thus in a limited and imperfect manner I have noticed some of the diseased Conditions thich may be confounded with himin. much could be said upon this important topic, but as I deem what I have mention. - ed as sufficients, I will pass to the Prog-- mosis -The Dar Some limes attains to lan enermons size, hearly all the abdurninal organs leure-been found within it, thus madine

it almost a large as the at downer and extending down to sand below the knew It may remain continually external or setermine and appearing according le the Justien of the rutionty through the course of lige unthout come serious Ly mostoms occurring or it mur become Strangulated as it more usually is at its first appearance terminating the life of the palient in a short time if his returned to the prompt and effiaint exertion of the Quergeon Je cheatment is first that for the reducible, secondle for the ineducible and thirdly for the strangulated Condition, The reducible, I've this condition of the human tumer all that is in-- decated is it's reduction and afternando the application of the trues It will convertly return when assuming the Lucione position hat if the does not measures must be taken which will

he deserted when sectioning the breaks - ment for the Stranguluted Condition After it is within the abolomen the trues is to be applied to prevent its return this should be nicely adjusted to the proceeds so that the fred may press derelle over the internal abeliannal Ting and must be were continually day and might This in children and recent herma finduced by violence usually produces a radical cure lub in modelle and old age a palleative result only can be expected There is your exception de the connecteatel app-- lecation of the truss after the reduction of the turner rend that to in the infan--tile vernely when the intestine follows the testicle and is in unmediate contact before it energes from the inquinal Gunel Almost an indless barrely of pads has been derised and employed but the main object is to prevent its return.

Amediachte, The publication treatment, is all that con be employed sustain the parts with bundages The bac trus is the only one that can be come as the other might youte inflummation and on accounts of the acthesions our guration is mad missible unless the life of the features is in dangery both from the importability of seturning it after the dat is grande and from the fact that its would be likely to act, as a foreign body in the abdonus if reduced but the patient as comfortable as possible open the bowels with laxatives prevents constitution Gurl habits and light diet should be enjoured and all causes that much tend to excite inflammedien should be Altremously avoided formetimes when the lumer is small and recent, wights placed ufun and maintained for some time logesther with line diets and cultivarties will by Curring absorption lessen the size and bring about its reduction

Ju Altrangulated, When the tumer becomes strangulation the most active treatment should be employed and first the layis Place the featient in the Dufun position with the shoulders raised the lower of etremelies in a perfect state of flexion and the knee of the affective Lide turned inversels In this position all the museles are relaxed us far as possible, Then the hand of the Lungeen Should be entreduced between the thighs of the featurely the during goas hed with some or both hands and by gentle manifulation the centerts , and to be returned of they do not readily return drew down gently the neck of the Sal pushing tack first the contints nearest to the ming and Do Centinue untill the intestine is empliced eliter they are in the cavity of the abdencer then proceed to setum the resules in exactly the Dume manner that the Centents were disposed of No great amount of fores should be

imployed and the direction should be in the axis of the inquiral canal It should not be continued over fifteen ir tiverty memelis for fear of inducing influencemation of These neasures fail others should there be impliced as opium, cold water, ice venessetien, lotacco enema, lartar emetic, other chloroform the warm lath go After these have been judicialle employed and no benefit results the operation Should be immediately reserted; li, the car-- lein the better and if it is performed before inflammation comes on the chance for Dusses is great But if delayed the life of the patient may be for feeled. The operation generally performed consists in opening the Das deriding the Striction and returning the entertime of westein. The patient Should be bought to the edge of the bed the Had. - der emplied and the part included in The preselect Shured; an incesion is then made of sufficient, lengthe commencing

, a little above the internal alderment thing through the commen tuliquement after -- wards the efection is continued by functing up frosterns with the fereifes and cliniding with a sculfiel then introduce a direction in the opening much and devide up and down, proceed in this manner till the sal is reached which may be known by its tounded and time appearance and the arbonescent arrangement of the besile whom it's Lurface A. pirtien of the ducis then to be functied up and ruffeel between The thunk and finger to assertain that me furtien of the intelien is included, then grash with the firefes a pertien und out upon the points with a scalful laid horizontally to the limer introduce the derection and derect as before When the Luc is opened a greater or less anund of Server will flow out, and is a Ligne that the is ofund

I'm reluce the strecture be carrying up a director if the junger cannot be und . In the one place the huma raye and there with loth instrum--ents in a line parallel to the agis of the bedy Deparate them and the films of the timen of the estimat oblique will be fell to give may, then return the riseus as before discretice if mortification has met taken place apply perfec dressings and treat The inclications as they arise.



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