## George Bruce's notes on the lectures on surgery given at Edinburgh Medical School by Dr. Alexander Monro (Secundus)

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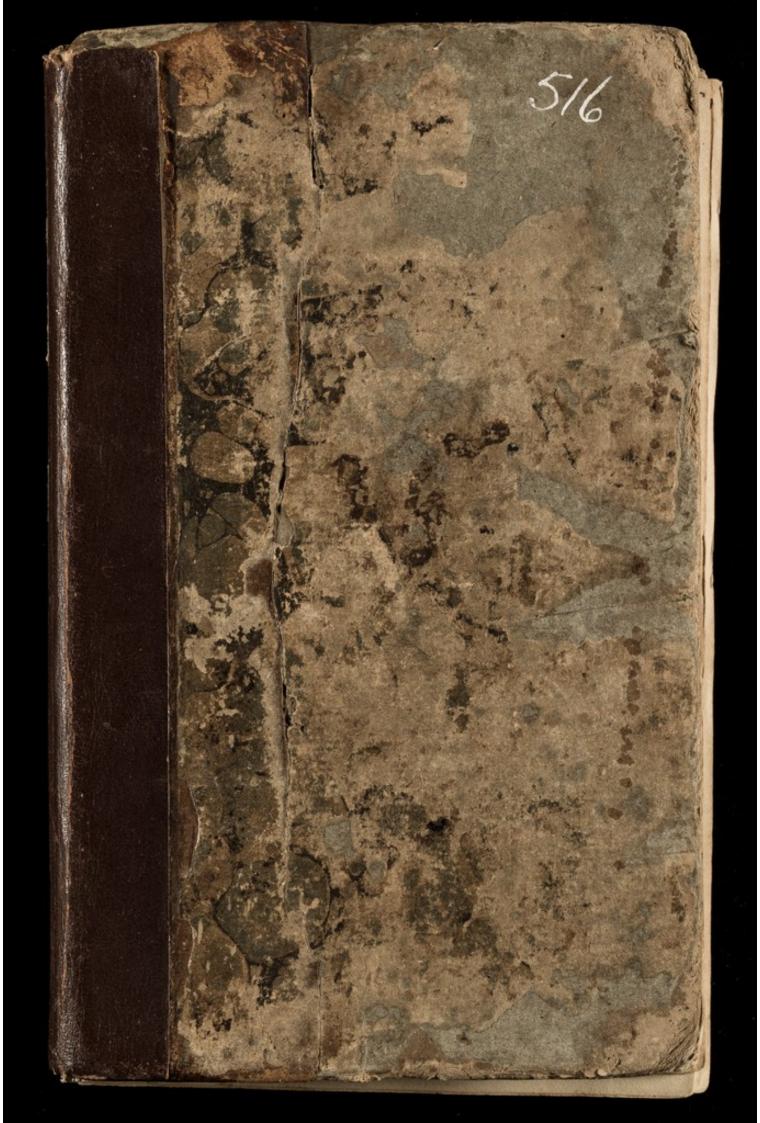
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Roles of. Profesion Monvos Lectures on Surgery mem le read la Clijsen shurgary

RAMC 516 1 1799-1000 reduce G1 on Inflammation . Swelling, increased beat painsfever distinguish, it hom other dis orders. In local inflamma hon the incicated action of the arteries Takes place only at the particular part. By the microscope the aefect are observed to be enlarged, blymph efficed between the interstices; & the inflormen him increasing no particles are ef: Jused. In a recent inflam. The num her of refords appear tobe increased or as Boerhaane explains the net

which formerly brains milled us glotyles. but, new refocts are also hweuced, as in the ophthalmic; where therefull Spread from the Sclerotic Wal over the comea - The atteries contract in succes sion from the heart towards the ex tremities - Where there is an dolunchon at the begin of the dorla Medlearl from over Exertion becomes dilated The same thing farthers in Introms Ceptio- The files are separated by their dent exection the parts become thicker from these interstices being ficeed who Inflam " by interrupting the function of an organ necessaryto life mery produce immediate death fineir minia. Phrenitis) or through the me dum of the newer inflamt mayler munate fortally, as in the cultury of the tech, in operations on the hnee, to extract a cartlege, she like our

Inflammation always mecester their ress Tolow on the mamma atif--ticle including inflammahord is of frequently, sowed tohave this termination approx. The inflam preceding behirrus may he so slight as love little allended to- Inflam terminales in suppur ation - or in Gangrene - or frequently + or it indues schirtry which ends in Cancer. consiguent loinflam to bowels from W. first conered the surface of the inflamed bowel then refsels spread out whomit army from the sound parts phushing in to the effused matter unite configuous parts. In aviolent inflammation its disher swis ful allempted, the impulse of the bloom the uepels is befored by bloodlet ting . Romprefring the artery going to the inflamed part, may have agood effector an artery Communicating Kun the deseased harts may be spened- Cupping or I cary fying the part or sultracting

subscully the blood from the weens of The part - Purgatives - The Inblamed part to be raised as high as hofse ble above me level of the heart- Tree dilution necessary with the use of acefeants. Ine fail in resolving me tumor Asuphuration is lote encour aged - Jome huther change their mere effusion of serum is necessary to the form mahon of pur- wery when may beton decluced in some measure as agland chain ging the parts of the blood - Poullices & warm applications w/avour the suppm ration - The absorption of the lympher hes fewours \$ he weste of parts\_ Mortification - in one state of it there is awant of action - has seen it zue leed a typhus fever- In one case which m. alleneled with it Rupel-without any apparent corecent cause [inflam mation chil not seize the parts the a numberels was fell in the toes with mortified - Then the nose shared the

same fale- the patient died - Tome 5 limes there is an increased action for lowed by a weathering of the nowers of Life - hery sensible vouscular bail of our Body entyect to all the vanelies of inflammation N. In by phus have Jula nom he Secture 2 Commencement of butures sligatures are used toprevent Elemonhage during an operation or 1. taking up vefrels after it, stooring to gether the sieres of wounds. ( necoller ) soon after fregento dectine I desired the workmen to blunten the edges of the needle recommended by the Sharp-the sharp trangular edges were aft to injure the surports fin gers or what is worse injure aneigh boring artery out news in using it. The party me oreedle taken hold of ought to be round wa grove made in both sides that the threads many read thy hafo - The Shread is flattered andre toined to gether by war -Theodors of the reedle ought win

Before extracting the Lestille a ligature passed around the chord with effectually serves me pleve of a Tourniguet. When me mouth of ableeding presents after an amputation AN the wastered it is twee taken hold off by the tenach him- or by an anatomists forceps, where The Lungeon hers no assistant & artery forcero- deistero percepo when alaye nefel is love laken up - The flat Jene culum with the Lancel pointis to be preferred - The Thread is treetin. To a no ose which is hung whom thele naarlum-awhen the artery hers been loud hold of the look is brought over, Therefool is then hed by the afoistant The ownole or surgeons, olves not at shy close enough to theartery-asingle knot is quite sufficient, of there is no oc Casion for pulling one hour abovesa through the nouse it may be aftered by which meens it may be aftered tightened of there should be occasion. Where aligative count be applied to the uefrel

Aself, onemount of its heing deep seated, ? The artery is tobe surrounded by the hageture completely by a needle near by semi circular including someoffhe ell ports of then lied oce When a thin part eg. the intestine is wounded the edges are to be served together as two perces of cloth are fixing The instestine to the containing partsor a number of threads oneifferent needles are papel at the fourth party aninch from each other theel singly-afterwards Mere can be reachly be removed by cut ting one side of the knot this is what is termed the Interrupted Lutino\_ The puisled Sulme suchas is used in the have lip- is made by haping a needle or him through should side of the wound- assess point is adjeted, theil it toke has Mongh readily bus afterwais laken off by a screw. a Thread then was in the form of and so so to bringthe eicles of the wound together -

In olech wounds a semicirculainee ble of a large size is used of the sexusion on each end for thread-these needles are heafsed of horite one another pone withink at the bottom of the wound ontwards to after the requisite number of light hospital are haford the parts are brought logother at the lightness became the out of the ment of the ment of the wound - there the depth of the wound does not require this head ment - adhesive pleasters that after than dges are necessary -

operations for the removal of Calculi

Preparations The who ages 2 Sheineys filled with calculi-hersons hom the preparation was taken here have hafred calculi herhaps amounting to pounds - 3 a stone stehuy at the whof the Preference of the Prefere

brought into the class room avery great 9 number of calculi neere found inthe Blevdoler with numerous cysts - 5. he Mind a schirrory of the Brostale incon sequence of the resistence hermany cyols were sommed & were filled with a black hardened mueus maller-6 lysts in the bladder from the same cause J. Collections of sand of a red Whour exhibiting regulen crystals word ed through the unnary papageo - other calculi- one exercised by M. Dew ar from the side of the anno. heaving con centric lamello. Hevery way resembling a umany calculus. The men had no histula - nor connection of the paul with the weether - Fire calculus weighing 14 ounces shewn culout by W. Alexander Wood in the Coleral way - The man lived five years there afteres. Men there are more stones y one in the bladder the colges ofone are adapted to the other sometimes like Ball and Jochet-some calculi are rough resembling in appearance amul

formed from the Sectionent of the wine when the patient oned no stone was found in the Blacker - Shews one preparation of a stone weighing 32 ounces - variegated & lamellar.

Lecture 3rd of the Surgery at an average the calcul in myhof serrow weigh how owners & aheely-ass to 2 or 15 to 10 heavier them water The limen the healthy state depositer Le diment forming a court in the vel which contains Mountaines hence This coust may collect whom any en brancons body in the umany bland der- from the calculus matter heingens hended a dissolved in Me unine il does form any deposition arlalen his except in More who have a cer lain medis hordon to the formation of the Stone - buen before the unne hus wirled - Shause seen crystales detall from The weethra - & sinh tome bottom of the refrel. W Scheele has discovered had lalculus consists of an acid whichhe! Terms the Sithic - acids in the storm ach lead whe production of Calculi Calculus more common in Me Sterti verous her in the Carnivarous ani mals - Dyshephi pahents onvre hable Volalenti- The Eachon by the Stidney men he vitiated. Drahetic patients more subject bort man others- Hagner him datrorphor of the watery bartel The unine increased hersherahon may contribute to the formation of Calculi Where the latheter has ween med fre quently shawe observed in ashort line a grely maller in the unine es if from the vordation of the Catheler or entrance of the well our hother Alhaline medecines may be afine in neventing the formation of calculus whither in the caushie date or when sahwaled with Cerbonic acid\_ one be hent although he was Mis horoquer Con homed daily to discharge chewal Stones\_ Nivoro no instance of Medifio lusion

dissolution of a calculus by alhaline medecines - The sectionent of the unne mapamenear person were probably correspond to a calculigin Mesame her Son hence it ought to be examined I may possed a mode of heatment Al first a Stone gives most poin of Convaios the sensibility of the parts are more Vlunter - perces of stone asper vi olent exercise Nov d is durcharged when The Stone is formed in the Sudney-but would not unthorize a hugeon when form Schhoolomy- This cherahon is cept where, has wrought its way low The ourface on account of the size of Me nefrel & depth of the parts. The Itone papes down me wreter but are aft we stop where me wester con brents & carsers the Blandown obliquely When the feinale in such circumstein les an operation is adviseable toate-Then the Hore hapes into the blacker in addition to with symptoms, pena deuthully

of vording the unine is feet - the patient on 13 less much from any poliny motion or volent exercise - or in coming etown clairs In making water. The patient To relay the parts benot forwards by w meens the Hone is Mrown forward of be the chicharge of usine the patient has exquisite pain the Stone being now Mree Times heavier them Mous when sus henced in he water apains fell along The methrer Tensahons are reformed Whe Schemities of news - as when paine in the loes after amon lation occurs from vordaling the newes of the stump But whom these symptoms no hundred lugeon would perform the cheration he fore he had bell me flone on the point of the instrument - the Sound - This he Ohument ought to be shaked to the cur value of the weether - hard metal as Steel presciable Wilver to convey he mor withe hand - wellscharge the time at pleasure & monro desired the work, man to make the sound holeon -

Sounding - the Instrument is tirel blee cased with thing oil - them Butter alung unger The Pahene Card on his back on a Bed with the Shoulders clevated The Jurgeon seals himself on the deft note of the Patient - The Concerne note of the instrument is hirned towards the at domen- alarge instrument is pre levrable to a slender one the instru ment is then entered into the weether we is brought whom the instrument by the left hand- it is then comhously haped along the weether other into the bleeder butwhen thereis a resistence to its hapage at the nech of the Vereleter the Anyon who oh ces ofinger into the anns to direct it or determine its Tituation- When the instrument heis jolinto the blacicier the stone is searched for - ta shohe giving whe instrum to feel it - guis not fell the Patient is directed to rune himself & thento hend how and . When the stone whom

nech of the bladder or acomple of fingers 15 are into once into the rectum to push up the stone by use the bledder is chlarged wehing Latthe nech where The stone may wage & the instrument may hap over it - oil there methods arenos successful abouted the water is evacuated\_ When the stone is tell me encleavour la ascertain is size by introducing afinger in and beadis not altogether improbable their some the decine may be our covered for dissolving alculi taken by the mouth - noheron has yet heen enced by enjecting orbients in to the Bladder- Calenti line acred whom by substainces which are innocent with regard to the Blackoler itself - Sherefore The cheration is the only tremedy -

The Staff cripers and hom the soundhom howing a furrow at its under con we pait - dought to be thurt at the bound the grooms not reaching the Ext hemity-it ought to have a wood en

handle - Scalpels used to make the in ociforeno - to cut into the bladder a wedge like instrument named agorget is used heving abutton at its extremity filled whe grove of the staff- W. I lawhins instrument agreed improvement is only Thank howards who left orde of the par thent - but it may wound the Verdeler Case aMe when about part - In one preper sching this hephend da lurn of the deum goliulo the incession- the contraction of the blacketer & ones of the patient fine The parts whom the short edge of the instrument - I mouro invented a downte gorget heving the sheet inthe ment undermost W. Leffries unstru ment too complex may interingle shelp from the army edge being whhermore W. Brown feiles goget loo clumry-Three years after the Dorw weganto Luchure he purhordthe Making the grove whom the side of the stall- to avoid the vesiculo himminghe gorget is so filed whe grove med it Cauriosolih ont

Then a pain of Forceho are used to eas 17 trout the flore- May do not meet at their extremity as this might himber injure the oofs parts - The finger ought to be placed between the handles to see gulate The prefine-

Lecture 13 of the courses

Extraction of the laterract or line render co opaque by divease. The speculum is applied to fecure the eye had theep the eye skeady - a conical shaped homfeis used to make the incision of the lor near the Plat is lifeered by a blund though the hand a sharp lancer is used to out the capsule of the lens.

hend with the knife to berested on the chech the corner scharated at its liver part - the speculum is removed - the flat raised by the shoon the chath instrument is introduced to niphuse the capsule of the lens. Then a very moderate plegue of prefine wife suffice to produce the lens the Eye is then exthesed from the light bow & solut. Cerus. Acctat. affilied. We now return to the speakon of Le

18 of Motomy or rather Lystony The open when when herformed above the Pulis is termed the high speration - In this hart the Bladder is left incereied by the Perstonoum We begin with a common Scalpel but a found concerne one then a short pour of forceps are used to calract the Stone-The Bladder is to be distended before the Penis-lo retain the the lungion ought lube certain, before commencing the operat: by examining above the putis dintiooh any the linger into the rectum to feel Mefluemahon

The Surgeon please himself between the Methighs of the patient smakes his incis won directly in the mudole herween the recti muscles of these menes in length then the common cellular entrance is this ideal of the muscles scharated - the last muscular fires may be scharated on a common hurrowed proper then the burved house is taken t is thoust into the blackder t is followed by the honger by is. The house is oriented who are to promite the winds is considered who as to permit

hermit the extraction of the clone which Ig is done by the forceps, and these ought where short - This cheration was not her formed by the ancients-in the quadruped the blesteles is surrounded by hentonoun the blesteles is surrounded by hentonoun the surrounded by accident and by comparing method their is left succeptful them the lateral operation - The admit when the lateral operation - The admit even of air is the cheip cause of danger - Where the stone is very large of the lubyed young. It is nerhaps the west mode of operating - provided the wound be immediate by and accurably closed --

Lateral operation not more than one often die of this oberation - Bhilderen and old People escape wetter them. Hore in middle life especially if the person is Pleshoric, an anymologishe regimen is first to the observed - the Extenses of heat stold avviced - on the onoming of the olay on which the chera hon is to be clone - a Clyster is to be extensed - the Bladder ought first to be moderately distended with wirine - after the stap is contered a moderate prefine is made when the wrether layer afsiblent

assistant to mevent the flowing only Meurine Me Polvis of the Parientes raned that the Bowels may bulk bachward the stone fall more into The way of the forceps - The Parientes first to be secured. The Palms of the hands are applied to the soles of the feel I leed by a garder- the hnees are schena bed by an afsist! The Lungion place him selfupon a low seal - The start ought loke introchiced before the patient is decured as this negnertly is the most difficult party the cheration - after the dall is introduced . The green to the of Distant- who hims it to the left orde with his oright hand- whilst with the the left he supports the Scrolum - an in cifrion is next to be made with a com more Scaepel - the convey hart of the Staff has been lumid lowers helest Diele- the incipron is made at that angle where the wrether joins the crus of the Penis - Vio continued to herefway between the Johnm Lamis - a free incifrion is the best - then the cellular

for this purpose. Lecture - 94 Cystotomy in the female - most calculiace formed whon mucus orcloals oftwod coming from the Kielney- men from their more achie employments are more subject to calculi than the female unwhem the withra is also short or stronght-hywhich calculi mere reads by escape- For sounding withe female anollow probe is advised where the full command of the usine-made of steel - the usethra lies between the sym pho & behind the Chleris- the linger read My sinhis intoil - when she stone is covercold the operation determined whon- the I Lateral operation is preferred-these is no prostate gland novercell Lem males in the way- so that the operation is much more sale than in the male preferes shiring open the whole of the

the weethra to ohening Marhaely - a staff 23 with a growe in the side is introduced into the wrethra- the weath of the gorget is inserted into the groove opushed along into the Bladder-whom the concaue part of this Instrument the Torrehs are introduced the Stone extracted. The oper ahon ought never love made from thele gina - the part may not heart may contract the parts-by Mroughing of Stoughs Athebagina meny he suplused in subfequent delivery - If the Stone hers heartly golinto the wrethra hythe guidence of the stap it is tobe ent whom dextracted as in the lateral operation\_ When a stone is inhacted in the weethra-diemmen me thous to promote its expulsion have Suilest, we then make a cut whon the Stone Hextract it previous tothis on cision the Spin is Whe drawn whowards & after the cut returned with place to prevent Ishelo vescelude theair Men effusion is threated a Catheter maybe menomied & made what the wound in the wrethra- When the stone stoho.

21. Extremely of the wrethra it is cut out in a similar way under the Browning.

When the stone is stopped with female the wrethra is to be shit often by a common scale led on a furrowed protes-

In Incontinence ofurine trom wantel lone, or from instam. Iwas ling of the Sphineter muscle, in other causes from a paralysis of the spiriter-we give lenus employ the cold Bath- Sendeavour le Li mutale the spineler offre vlexeteler loae tion- for Mispurpore Blisters. have been applied above the sacrum which art also by heing absorbed & applied to the nech of the Bladder Jugam Penis in strument not love used. The nech of the Bladder, and wethra, become more more dilated & the parient afterning Mor some is Ceft worse their befores - Urmal - a necessary instrument Pretension of the since from whatever inflames the nech of the Bladder heis arisen from an ill managed gonorhoacontraction of the opheneter Alofs of power of the detruser unno to long retension of the unne heis caused a com

Complete retension of the Catheter can nothe introduced - the surgeon must let M Mewaler by minchine - The Patient is blaced whom alow local oriable horizon tally- the nuncture is made notguater than the head that the finger from the Putis. the thin may be first be divided by a Cancel- the cannel mey be withrown & wifed & introducing through a protee treplacing Magain whom it - Sielhoiled cloth Toprevent excension - or Mertad der may be hundwied from below- the Stattis introduced. The skin chorded by a lancel the Trochar pushedulo the bladder in the direction of the weether whereit is coursed by the neutonoum -Is partal to the puneture above the Oto aprilis - where it can be done -

Prolehous Men- horizontal horher-or ramer elevating the policio- que applyme chanical support- Elastie gum boule a comprehed at the lop next the or when-pièce of sponge- or ring names pefrary- dis in brocheed sedeways then himed round.

Prolahous ani mort prequentin Chiederen brum

from relaxation or writation of strong lasharties - stone in the vlaceteer - or checies of introsposephio - the last broken deer part is hist tobe received by the forefrigers previously stipped in oil & applied alternately -

The natural heißs ages are sometimes obstrue ted - the lips - sometimes the norther from wulation ourflammation - from conthe entimace por ne hymen is si imhertor ated-hest method is culting orda circu Carporhon-herbord might in such a leve get into the courty of the abdomen, from the mens, herfring Morrigh the fall leman hobes - In one care at the hospital here the whole side of the weether wers open nothing would be done - when there is a proternatural opening in the westhres the glains is tobe herboraled held ohen The other chosed typhe swisted subme Where the reclum terminates in the vesica unnance or bagine - anohening inthe har hiral is love made des laulished\_ there the rection elves not extend whe rectum

of the parient my meeting an artifucae anno atthe caput coli -

Lecture - 95
Supprising the pelvis somuch contracted
there a pice grown child count the elelivered throughit alive - the attempt losanes
it by performing an exercation on the Mo
ther-named bosavean Section

Theresica unnevia declum emplied the patient property suraled - the Lurgeon makes an incipron from the umbilious downto the symphysis Pubio- separalesthe heeti, then lakes up any arteries mad may Spring- asmall hole is scretched with ean hon through the herolonoun-dwederel directions assistant to tres on each side of the wound loescelude the air- the were is then cut perpendicularly through the middle-the forms is then twee course to - he parent put wito a proper portion fordischarging any thind wheeled in the Merus - aftern and - The wound must be closed executly by stickes - operation ex cecelingly dangerous-inflermi of the mens

where reachly followed lygangiene - lin instances of in this Island have termi rated falally- Life of the Childright who see intruo what of the nother on the division of the symphysic athinnered ged house is used to churcle the cartilages then we are topush a funcier the ofsa Inno minala, hendling the knees & nuny the limbs as levero- perhaps the bones may be separated an men from each other. The azghelinaling authlege theament an necting the the statem who one Innomine to mustbe forn the operation Mad maybe of use when a small addition to the doth Me Pelis wice suffice for the delivery of the bhildfishels dangerous Man the Govarean Jeelwon Where a child how burst homethe nt

that the returns how contracted- the only so meety is the maching an incision into the abstracted the only so the abstracted the only so the abstracting the blied to grand against what the operation ought which do formed of the delayed formed days - preferences

down the heartofthe thier lowereds the Pulis- Lent directly whom is after ex hentun by enriher exclude the air -Callison Book on Surgery how bolumes recommended. In cases of Gonor whom the injection is menented brom going horfan by prefrue how the western with the finger offund, the unne oright tobe retermed - acittle of il everenated before the rest some time after the Injection Ines venerea may fol low although no alceration who withre her been produced - Strictures - Caruneles not imaginary - thethere consequence of gonormen lelsus lakes nonotregul-Mer any will neither hereal nor remove a stricture- and hymechanical dila tation-only destroying the part - Bongies. Freture more common in the bull or be yourd it in the membranous party the I reshra - canthi is applied by bixing it to the extremity of the wire sintroducing ithrough a hollow cashelin shen at the in tothe olinchuse \_ or I. m. mohores lokals a sharp pourled more Mothe Catheter

her waling the streenie & tollowing this with the barreter armed Bongres. Home on Strictures of the methin -

Lecture- 96

I wholom the methra ounthe Pennoum pe grently, not always the consege of strictures When the listula occupies the nech of the Black der there is a continued dueling of the wine inone case of Tistule pennoi the unne made, its way into the cellular part of thigh & broke and there- whenever unne is effused it shall he ever enaled as quilty as possible for the wireshon funne is very and to produce that knely inflam". their readily terminates in mulfication- the unne is Someimes poured whothe Scrohim - If the wiethra hedelated eversto allow the unne to help peely theles care will be cured - but where this imprai ticable- the parts are tobe land ohen- a eraffis introduced into the weether and a probe entered inal the Eishele Leonlinued lothe surrows probe-aslaff- then the Istula is love completely loner open whom advec tony or furrowed probe by means of a seal nel- bithe sides are not disposed to achere

home une Mina scarried part the fisher hen the parts divided the applied logether I retained by pleister or outure-

I while Ani - In 9 of locases the fis Interlugins about thereize of the anno . and mederion fined by the Spinder hes al the When part similates it - examined by in hooling aprobe into the Intula cafin gerinto the anno-de Incomplete fis Inla do hes place when there is no com munication between the intestine dese ternalfishela- humer internal meesceines nor injections have any good effect-line Canonly be herformed by laying ohen the parts -- The Eurycon fire introduces thefin ger within the sechim - the finger winks in Whe communication heparts are hand round the opening - an External incom plete funder may heguently he and merely by enlarging the external opening-Recommends the proheragor of leister- Mrs instrument is introduced into the Estula The broke received whom the figures the

10 32 one hand within the rectum brought out at the anno- Hahing hold of the other ca bremily- by making a circular sweet the intermediate parts are obvieted - simple drefsings Mehest - an foremeny head visable especially of the Eistula how con Immeelling of the parent is plethow-to prevent apoplexy-Palogpromotion of the faction to that it finds went. The operation toles delayed until the Child has advanced nigears. Isometimes arises hom want of clean linefo- from gonorhea more juguently home Chance - after the ordinary means have Sciled - an operation w necessary - The parts are to be dweled . a Hiel-tistowny is introduced under the glains. They med line whon the instrument of the handle the culing Heade is much tostart up & loctiviete the mepure alle siele - Thomas - advises asmall flat canulas loke introduced under the prepure & Then oliveding the parts by a honfeintho duced intoit see and carried forwards

Paraphymous- happens sometimes 33 from a swelling of the gland intelly how the overlation outland of a you howhoa- patient love feely blooded Wounds by Leeches become channes in hen cases, Jomentahono- Prepince love divided ly the shoulder of a dancet bear lancer Venis\_ Cancer sometimes communicatel from the deceased went of the smale dis seldom observed under the age of 46- Cancerous sore not distinguisha He from veneral sure with excrescences Twelling of the inguinal glands dues chrigations mevent encep from y operate 6- The Shin is love retracted an apis land grafes the penis fromby with the hand above the part love ampulated. The Ohin is first obvided Circularly- Then The henis is divided by a large I calpel-The anteries are taken who freg! bloke heer Thin tobe brought over the stumps habe introduced into the within such portroly a healine - Inte like afun his for conveying the usine into auchel

34 Lecture - 97-Mydrocele- & Sanocele Notes may be offusces into the cellular substance under the shin-generally allended with aners are of the line a Extremities - puncture of the lastum sometimes necesty logice relief - Water is seldom found cot. lected in the cellular entreune connec hig the refrels of the spermalu chird logether - The brokey is more frequently encysted and is collected in the Sunces Pagenalio- Where me passage intoil remeuno open from the abdomen the taler may proceed from an Ascilio - sometimes observed from this cause in young Childeren - it dischhears generally very soon with or with any astrongent application Nas leen My droech within the body of the testi cle- sometimes asmall Bag fixed to The Lesticle by a peduncle is met with we had an instance of this this winter in one of the subjects - It is observe

ved that all internal applications

have very little effect in resolving 35 the tumor-sometimes, as where the vilhun amonth orhoo, Alheis been reabsorbed - Where the lesticle is at the same time swelled mercury heisteen englicered where an V. Vinis is suppressed on may be palliature or Racheal \_ In the first the wester is simp by to be drawn off- for this missive & monro recom? The lancer prointed oro chen of his own invention - the shit at the sides of the Canula is an improvemt ly w. andre of London -

The Patient is land whom a least or across a best the Surgeon places himself before the Patient between his lego - he judges by examination of the Muchness of the sai - applies the fore finger to the trocar to prevent more of it entering their what is necessary he averes the Course of any verm he then grato the humon with the left hand the inshument is haped obliquely under the shin for one quester of an oricher then seeing the

hand the sac is princhined afterwards the Brochen is removed the wateral lowest to flow off through the canula which after the operation is cantously removed in the objectionit was an terest. The Patient is tothe confined for some time- bafferned closs diffe in thinks applied oner the stroken the dancer pointed trocen is hest in trouved perhenencularly (thinks ) to avoid wounding the veins by a hour outed punching

The Practical care is effected by pro
oncing an adhesion between Meter
gined to at sourface of the lesticlewhich may take place without north
very title suppouration-lie by adhesive
inflammation, owheat is the same thing
by the first intention— By means of
the setoniafter the operation less describe
a long silver twic is introduced through
the cannot which is removed - the na
chart probe armed with the setonic
hafred through this- birought out of the

the other end of the tumor - the tule removed the selon is allowed to remoun - as an improvement of Mis operation of M PA- Monro advises along sochen & canulato beused alittle curved of the cample perforaled by holes - by which means The sails are protected - the ener of the horar is followed hyphe seton ofhe water flows out by the holes mental - bure seletom herfect in this way-That by incision more certainly suc Cefiful - I monno knows of no instance where where proved fateil - The Palli where method ought whe proceed the metical - by which the state of the les hele may be ascertained - Las meiller curface afterwards expored whelier-The Patient is laid horizontally then with a common scalpel the show is divided from above downwards leaving asmall pour toreteun the lesticle-then hyslight scratches Mercel helan

Cellular substance is ohvieled-avoids any large refrel - then by an an al ce fo lancel - the vaginal coal is opend at the middle-attres amule onfue a directory is introducing into the furrow of which the probe at the Sa benuty of a sheight hnite is introduced. I high we described ohide the bagi ned wat first upwards of ourwards introduce afolded have of cloth should with any simple ornhment into the wo Wheven is from achering- the sides of I are folded over the sides of the fore.
Light applied above see with a bherhow be above fee with a suggesting of the besticle-quichness of Pulse- increased thist- & beet rest liphep Jollow- he swelling storoly de thimfier heparts allest acheve but Melesticle seldom regains do natur al sizes but continues somewhat enlenged In Mine oases - the cure by enjection enceceded in Fight of them \_ so inject The purtione - 9. Monro prefer Me las he gum-Bonle filled with a stop coch

Ewoparts of Port were to one oflotel 39. water accused - Mewater is first let out by the Pallahveeperation Safter the humor is befrened in size The Port dwaler is injected bretowned for Leven or Eight munites - This oneshod then meny be tried, and Alle desease does return the other rachial operation may shee he had recourse to - This operation is notso severe- norits consequences, so alarming as in the mode by masion - by delaying the injection for a day or two the extent whe inplamed is Cefsened -Lecture\_ 98\_

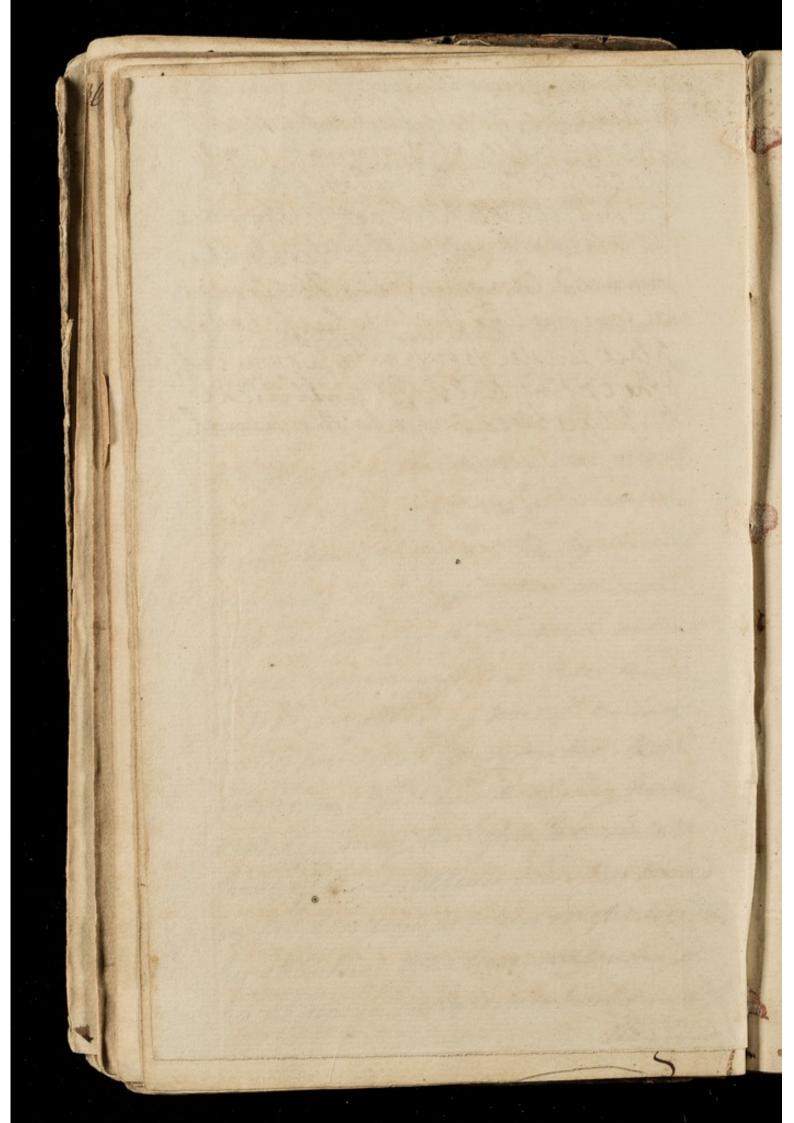
The sai is scloton much distincted with water in the hydrocele witht come enlargement of the lesticle - Sarlocelle-investain cases this ewilling of the lesticle terminates in Schirmons our Cancer- In Gonorr has when the matter is thrown whom the seminal chieds-the besticle swells this also pequently helphens after the Lateral operation of upstotomy

and in one case ulcuellen of the nech of the blowleter gene nie lo Mus swelling - Lestule much exprored to injury- deswells from. internal courses arin the Cynan the Paroholoa - from Sure benezea When the swelling arms from von Nection from the weether the Sprety dymis first sweets then the testule but when it proceeds from internal causes the body of the bestule wifirst affected - his alw happens when The sweeling anser from cancer inother parts - at least & monrohow always observed his tobe the case - hework swelling occurs in rather elderly bersons whownshlutions are broken who have used freely aresent should have usallow look bee Indano cele theswelling is hard knobby unequal but sometimes more soft freg. I brought by astow- painful-& withe case of Ocherrous orlances the bams are shooting- here is no fluche

Anchiertion offlice observed - By 41 These masho it is generally distin guishavle from hydrocele- Where The Palient is exhours text emercialed sallow - the swelling has Thread Whe Emolydynnis- the Patient ought Whave acheine of recovery from mesperation but the Brognosio of The Surgeon Should be granded -Extraction of the Lesticle - The Par trent is lavel honzontally in heal The lurgeon seals himself between his kneed- buses a Common soil hel to make his incisions\_ the begins his incis con at the sing of the external oblique & continues il down warels to the bottom of the Eumor, this violing only the shin-next he is to Take up the spermatic cord- by has any a round curved needle armed with a strong higahure roundit\_ including what Leister rames the nerve

nerve- the vers deferens is alsolo, be hed up- hen he formsuponthe ligature arunning hnot - his makes avery good lourniquel\_next. In Monro actorises that the chord he divided, because then the parts com he currected out with the ulmost ease. This division is made alittle below the ligatine - after the testile is removed - any refel med shall have shrung ought low lakenuh hythe lena culum - the ligature of Serverels unbovend the several. asteries of the chosel taken when the Dame menner-in this care three or four branches are bound as large as the principal astery -- The think gature in their event of any hem orrhage may be lightened until Mesurgion is called - Then The wound in the Scrotum is tobe brought together by shokhes- othe cure allembled by ashenve instammation - unkel

When the harts have descended through the abdominal ring, the care is called bubonocele. or inguinal herria; if they are in contact with the test it is hamed Congenital. The Coural or femanally that which takes place under promparts trament: The cromphalos or unbilical Tuplues occurs at the navel



The shin he cliseased or the hymor 13 very learge, none of the shin need turn he removed but when this is the case the desence backs are love and coul leaving the lifts of the wound somewhat of assemicircular shape-so that they maybe merete tounder more accurately—

Hermel - or protrusion of an cavily- I monro her keen some in stances of herrica of the Brain - where probably it has never been in itina hiral situation - he dungs are her baho never promided- although It floughing have occasioned with Anes of the Pleuro deven Couration The Intercostac mustles- hie then humour allen hon huncipedly to the herries of the abetornucel vio usa- onone of there are exemple from such probons ion - the Stomb Liver. Pancieas. Vin one case of a Theld the hidneys were both his Isrded - through aprolematural

ohening - they could not be relound The patient is non aluce & byears del- the lolon more are was natural chening in the deathhragm into the Thereix - The Wens how been protonded & the Blackler- &il is unlovered hythe hentonoum and Me himor - The same appliesto The hierneys - The coton - he small indestines particularly the Seum which bas the larges laces entery Dis most hable tobe pro huded - The Trung of the external oblique \_ The Passage for Mewefiels under thede Sument of Lallehous Whe Migh. men- The hinoa alba - In the pench memoirs Garengeol relates cases of her to have occupied althe for an en through which where he obturator herue dastery protryder. . hale- The Jacro Scrahe notch + there are the parts where the Bourelo mery he probueled annular ingrimal hornow where the borvelo

beil Mrough the my of the externell oblique - he most common hines Where they pass under fallehow tige ment- the Lemeral Sternier- here is herides the umbilical- & bentral herria\_ The annular injural more freg. in men - the corral on femoral occurres oftener in the female The weight of the bowels bring them down to these pleases dat this infer workand of the abelomen the Persona um to allow of the neiny of the Made der is not fixed-other explecens the reason why there she occur more fre quent than the umbilical herrication however is more aft to occur in very young childeren from the wielth of the untilicas - next pregnant women are more subject to umbilical herina. In the annular inguinal herrica of the male the bowels his before the cherd In the Conjemble hernier the bowels of the Seshele honewer are in the same sac Inl in other cases they are contound in schen rate

ocharale sous in women-inter same sheares of herrica the inter line her above the round begament In the ambilical hernia-he omentum is sometimes found - By the continue anne of the disease - the parts are Michened- obleted-formy asherions which the omenhim is most apple No= These increase the danger-This is however less in ventral hernia because then there is not so much smohne - In the Herma longenita The restile is surrounded by the bowels somet is cannothe dis linguis heel the bagined process remains open - ome hmes when his is not the care the herni any see lextends down home bottom of the Serohim - A thickening of The send by coursing elseingulation of the intestine prove the cause of death - In one care aportion of meanender vernyomis heis haped down into the said dother cer lo il- Sometimes the hermen is Compilicated &

complicated with hydrocele - In ht one very remarkendle case the Bowelo were found upon the love part of the vas deference acer cumo tame of which Lingeons thousand he aware the

Lecture 99-In the ammiller ingrunal hernia the bowel has about the shermathe ohurd whe Male- Itis known love a her hea from the course that hweened it - nausea - vomiling pequently al tend - The bowels are costive- When the mentum is probuded - u feels hazel - The are certain of the complaint when the bowels can be reduced by pulling the patient into a horizontal posture - in the female the bourels are pushed out above the roundligament autodged in the cellular sulstance Mee siere Mee vagina a Migh -- Temoral hernia hom its dech silva tion-smallness of size more all loke mis lahen\_ The umbilical herma is aft to ovon after birth - The Bowelo from

their being commefred-lovisted seare inflamcel-somet they cannot here chreel-bare then series blue seraingn lated - Breenction is a nempreedfull by elevating the pelvis relaxing the neighbouring muscles- the messure lo he made whom their part of the bound which was last two busies by the two fore lingers of the bands alternatelyfavouring their return by mefing in the uguned herma upwards voulwards in the Temoral whomas abackwards In the umbolical directly boukwards for the resistances equal onall sides agitation of the body can have little good effect in favoring the rection of the Bowels- of there meshods faile Blood is to be let very freely- using alerge in a stageding posture of the patients of their when the hgahire - & blicking in an erect hortine to induce diliquin- Men the Surgeon attempts again the reduction - If we are unsuccepped here - we are next to enereavour bostimulate the Infestines

of infrision of Lenning - or other acried gly sterfall me then make use of lover co smoke - which herhads has no great or effect than a common glyster - a Purgative of Jalah obalomel gwin by the mouth after other means here failed has not work - prosticed an evacualing by stool. but caused a reduction of the gut. Ouring its operation - other normal approve of vearm or of tolet applications to the tumor - of purchasing the intestine is ash and very hurtful practice of oright to the explosion -

The Bowels from heing inflamed are increased in Buch - or the stranger lation is owing to this course. The bowds heef against the ming not the sing agt the Bowels - of the same thing would be paper were the sing of ion - where the strangulation has been and wind bree is tome - from the inflam? The bowels as home - from the inflam? The bowels within the abstrance are orritated mind backion - dwind of coulent matter are bound down cularging the himon our creasing

The danger - To remove the decease.

Then the Buch of the Fumor must be befored or the tendor oblated

operation The Patient is land houzentally. The lugion places himself wetween his knees swith a common scalpel he is lotegin his incifsion above the ring & carrieget down to the bottom of the he mor- hen by very combines shother the Cellular substance is to be this ided this done abole is whie scratched with the who cention - all shening after nowed directory is introduced- Theiling a probe pointed belowy the daew turmer opened swas wadmit thefore linger - whon which the knife is into ducid-other whole saw divided upwards & downwards - D'Monro thenho a shayhl knife a safter instrument become then no part of the intestine canget behince Ne penlonoum & concere part of Mr PMs house- here if the Interline com not be reduced by the forefingers thro the ring - with the same knife the ning is to be ohi ided - and after the reduction

of the intestine - The wounds toke as Curacely stiched who objects within sheretion-onemount of the exposure of the parts whe air - and proposes that the teneton only be churched wi moutenering the sac- Danger from Gilling a lendon a more by bear a furrowed have is toke introdu led under the tendon - with a sal hel the lendon is loke divided by-Slight seratcher - sometimes drag he necessary to owide the nech ofher dere-only where the hernia is of long Continuance & the nich of the sac gives an irresistable revistance. Where adhesions have formed Ithon so thinks it adiscable wallow the pad toremain in the tumor only deviding The lendon - in cases where the Pour Tomeum is so dis coloned that we lanust distinguish it from the inter tino - abler avery small scratch how been make aprobe is tobe introduced The Saw divided whom the pointofil Hilledde lotale after the operation

The wound is love accurately suched up - where morth cation has taken place - the whor part of the intestine is love fixed to the round-by aliga have pafred through the mesentery

In the annular Herma Imonwho Jures that the cut he made from an inchabove to an inch below the len don- then the cellular sullance is ble olivicied decher - whom the chord arendinous hund of membrane copla Ced -- a directory then is whe hafred when the sing- &this is to hearwided whom it In inco con is made wh tion of the fibres of the obliques Ester. Mische. In Temoral Sermia - The west hopi ble rule is weliser the point of the Knife Towards the umbeliens - here al 00. The incipion halses from an inch above to an inch below the higament me then are to avoid as much as popule the inguinal glands the con densed cellular substance of then the The vaginal tenton or tendemons facia is cut through when the bestown

lindon is reached a furrows of knobe of is entered invere it - the make orde in eres on on it with the hnifeneither invardo with Le Dran or ordewards as their princets become in the one care the spermatichord in the one care the spermatic chord in the other than the spiges his arren with vided infallity-but we are licensed the point of the hnife towards the um titions & - to make but a small en largement

Tropsy. Lecture\_ 100th Victoriahono - alipe contouring water found within thehuman Brain - 2 Elydalids undoubledly animals extracted from the Brain of theep-3 Insternes of Hydrocepha his- 4 lysto conteuning water conneing Wo to the dues - 5 whe Hickneys on or arie prodigionsly distended with Kuid - 7 - a drohncal cyst connected with the spinal marrow the back parts The Bones were awanting thence The disease is limine spina Scholas In Frohy the water meny he be effused

intothe common cellular intrame neuned oderna - ortweens passinghe lucen me muscles- anadarca- Irohriges are the reled into effused, thou, and every 1ed - The water may be hound into new heral cysto- Mis formo whates called natural energs led dropsy- When the cysto, novever, are formed by decease I are fieled with water - we term this apreternatural encypted drong- here is shell another species ofher is when The sacis filled it a number of olyda hot Hoaling in water - Droney meny he owing to an increase of surgitar extralation and deminished absorption or it maybe caused by the suphred alymphalic respect- by too little of The agglutinaling punciple downuch of the watery band of the blood- hence Schirrous hielneys- obstructed uncters have guen rise welfers consin other parts of the body - a great lefs of blood by a. wound by occasioning attinness of the blood may give use lookshay - Jugy Trong so occas uned by relaxation of

54

The soliet here the drohy walind 55 whemplegia - obstruction whe returned the venous blood - increases The exhalation by theartenes ogues use welropay - as in asciles from undu ration of the liver- which may also mels whom the lymphate vegsels-Asci les hers cometimes organaled from indu ration & enlargement of the aplean & arother from that of the Pancieao which paper over must compress the vene Portarum - Indurated lungs pequently give poccasion loan exu dahon of water from Meir surface a both drothoraf - or this desease of the sungs-or enlargement of the hearthe name many for lower is affected as my the hour I anasarca is moduced - The Inha lation may be diminished - Prelayer I con of the hymphalics may brevent their absorption as catillary hilestoproher me fluid whe heart-Involence or went of motion fewers The alleuk of dronsy - as prichon &

frichon & exercise may have in removing the eles case- swellings of the conglobate gland I may be the leure of dropry - as may thursen in a occretion of the sieles of lym phalico-of parhenlar parlo-Formerly Drashie Purgahuer mere much employed - and more her manent when the natural watery discharges aremereared as by summe Persperation byolelo of Farter mercung in large cloves - Lquello Plate Me Digitalis one the usual Remedies in this disease. In ademations swellings- toward are the water- small princines are made about the ancles by abroad Shoulderd lancet - entering and re moving it herpenoticularly- and making the ohennys small and ala distance from each other dro placed. that the water dueling from one pune Chire may not run ouer & virilate and there where the limbs are much swel led what the punctures be made at mensher part of the bught - above

above & sometime ablenoards helve 52 the knew alass of all as the ancles The parts how lected from thewaler by henry Covered by a greasy continent-aftern hel willer necessary which by its clas huly squeezes out the water. N. hich punchines dangerous sin cloudy preples in pandicular officers of state on officies mode of time is to cut when the cyst longitudinally-of their difsect out the agel site sietes of the wound netouring them My Mentoler & Bandage -Paracentesis al dompund favourable - when an operation is deter mined whon - me make use of a Frocar som a lancer point - & old came la - The Catient is first but in abori Zowlal posture - and the punchuse is love made half way between the umbiling & the anterior spine of the Herm - there is no great objection to Three in the below the havel min- without the rech muscles but when the puncture is made sideways by rendering the bank thelowes of the

lowest of the abdomen by turning the Pahent over to their side so Madewing or or of flund may be evacuated - To prevent delignum anini- & hemershage from the abstorminal refrels after the preferre of the water har been la her off-this necessoary to annly a bandage and lighten it by snorth as the worder is drawn of in one parient- 120 pounds ofwerer were taken off atance-16 og We the pound - I the banderge instantly releived the parient - who prequently hegged it to be tightened de a prome benefed of one end may herred to push of any horn of intestine obstructing the evacuation - The nunchuse by the Frochen may be meide in a slanting direction to exclude the air-

propay of the oranium - down in do
progreso- uneasures sell other humor to
gins in one vide only- thewater is not.

here so distinctly sell to fluctuate illies
deeper dis more vis as than it asceles
the vides of the ovarium withichenit.

The

The mass may be made we shale we 39 thin the internal parts - In one care a patient was killed by the puncture having passed into alum of the inces the which day between the humon I Kontering parts of the Abdomin - abler the droppy hers continued for some time other heromes slahonary-some Patiento bowe carried about such he more for upwards of 12 years - no cher ation is love performed when the he mor is moroable. Juen where their ad hered to the containing parts-the prognoris ought tobe very guarded in deed- Sometimes the humor has burst into the Abdomen - 4 ca

## Lecture 101\_

Reparations - I the Lungs covered by an inflamy court apound of med les was collected within the Pleure- without inceration of the lungs. 2 Examples of above from the Lungs. 2 Pramples of above from the Lungs the medical is confined by amendorance B. Examples where the sai cheno color nally- 4 a lenge himor was trooding

externally- the matter coming from within the chest the snone of the heartwas communicated to it-Hydalido seem to hence no connec tion with the neighboring peuts by nefrels - they seem tobe animals but in man there is notonia Connec leet with them\_ nuther eymptoms of inflammation over suppuration precedes the formation of Hydahelo The Liver is most and tobe affected with them Inonerase the humed ovarum huns in the night time I the Mydaliels were discharged by stool - having made their way into me colon from its continuity with the ovarium - from the liver they bass into the Stomach - or woon - or Mery may bedischarged Mrough the Billiany ducts which have been found enor mously dilated - In one case there Shydarido wrought their way onlwards in most instances the My Lands are un mesons tromeuned mer seur alother limes there is only one hydarid of great

great size- Inone carse the swelling 61 behusen the huer & draphragm hard Jourhed the liver almore down to The bottom of the abdomer - anchera honvers herborned. The water extrac led-offe parient recovered\_ Elydrothorase Calenes. Third-Lan gnor- Scarcely of unine - Irchlingdy Cough - ohmefron on mehin - eshe Creely ingoing up bill - but cofi in me houzontal postme-releigenme Erect posture - Odemalous swellings of the feel - from the obstruction withe of hrefune on the bave & The Pulse is quick-emeile & remarkably internel tent - Starting from Sleep - Shellood hvid - me are sendered cercoin about the nature of the demand by agilaling the body - there may besens whe of the fluctuation - this is cometimes fell orheard by the panent himself whon nsing from bed or from his Leal the examine the place of the sound orall

apply the hands toophoute sieres of The chest - agreeting the parient at the same time - the fluctuation is much more obscure when the water is colle led within a cyst - In one case the Water collected within the pleura of the Last siere have so for displand The beaut mat it was horned overlo The right side twas felt beating there Many more cases of Lly dro thorax an ancel . Males asciler - In Empye mer an operation is more general ly required-Inthis care Inflams I symptoms of suppuration bane miceded - dyspina shwering ex houshon bolliquature dearrhou are the convegues cers. Guently, nothering whe hus in closely persono. Yes no part culen eighaul by of Breathing hers been induced the Palliative methos of line by lesung out the water may be converted into a Pracheal cure by promoting stroots accretion ofparto- This maybe at

allembled by allowing Meperfore ling instrument lovemen some hme within the thiraf to induce inflammation\_orwhere this faces perhaps were chluded mengle thrown in as in My dro cele tildelles with successo - In hydrothorax the bocar is the melcravle instrument but where hundent marier is extended a peer opening is necessary-there the water is collected in the pencaretium the Pulse is quicher d'able more voregue len obbe patient is not releve ea ly the fred hosture- but finess more ease by beneling forwards when the Pencenchum is relaxed\_

2,

Paracentesis of the Thorong- She Part (ought buse to be onashed as which the opening is tobe made the tith. The Shin is divided by the point of a lancel- other With a common to car an opening is morde into the Morax through the intercos lat muscles & please obliquely

In the case of Emplyamer Mechening ought to be made about themio olled the Thorax half way between the Verlebra & Sternum - The Valuent istend horizontally on hed- & his Dide brought over the Cerner ofilthe incision is held need to the Suher to avoid the interceptal artery worls and of the inferior rib - a com mon shahed Realpel is used for thispurpore - and the museles are loke divided combonshy by rung Thight shokes - he has the fines of the mus cles may be do wood whom a directory with ord andage - when me reach the plerina asmelle hole is love severence in it wim great Contion who this a disectory is to he introduced tuhon it the herfor whom is enlarged by a straight probe pointed house - the med les allowed do escahe no fountrés there follows the evacuation of the maller- The dungs are supported ether by barbar acher consorare

the lips are afterwards vouckept separate by a plainter of simple on Impered in wound of he wound the place over the wound the prefect in words believe een the sixth hie above this - where though no intention the diving the comment within the shorey no intention to be delegated for some time and when we can form some idea of the mobale week can form some idea of the mobale event-

Sympaniles- It is possible that the air spread on strom the alimentary cancel from me alimentary cancel from amplime or wound howing heen made in it - In one case the hympany sollowed dysentery a hole was evoled in the arch of the bolon - the sheratur was her somed the air evacuated - but the Abdo men was next day our tended as her formed fore — In one case from the severe operation of an Emetic a & mithing was made in the colon- the Patient

2,

the parient dead - Oir may be effered in whe car by of the Plenson-in consequence of wounds of the Shoray - oranch here of the lungs may follow aviole he of wighing - Ensuh ceres use arrent to give the patient release by sundure without any mersion by means of asmale round to can - the blace where the Emphy sema began - The point where the pain is felt- eliet no to the part Where the instrument is to be en lered - It is entered in a slanting chrectoon- then raising the hand The instrument is made to perfor alethe Pleura working it like a drill- then the perforales is when removed - the Patient makes a free inshiration-topies out Mean-after The wound whe lungs is closed we Extract the air by meens ofenelas he Boule screwed whom the Camila of fred with a stop web replening the Ohin

where water is collected in the ven 68 tricles no princient surgeon would undertake an operation-even When hewater is without the Breun an oheration is seldom successful - MeBrain is wasted & a farel elegree of inflam will Sollow - Lee page 182. gander and Melicer is olitheromatous Limou Ismaled about the seed the humor bas little acties ion omen becausely separated\_ an Scrohmelous avscepes hunchere leaves as maller ocar them is produce certing me suprime of the Lumor-In lenge avræsses in chiederen a small hundrue to evacuate the maller-allthuch asserve is to be inhvernced beadvised.

Sechure- 102-

Survivors sectored on the surface.

Preparations - I levener having

wols of considerably size. - 2. Pretty

large horns which grew hom the

sides of the second busingstrand,

- Mealomalous humers - quari ous shapes- Some in clusters res enveling abortoise inform house The unneressery born Lestuctosome one soft others more house & firm -Sarcomata the humor where and fleshy Warts - some of a cancerous nature. within one cancerous humor onthe surface acholky substance were found - Schirms of the Mamma the map is much inducated & he Comes of acloser texture - watery ags whe manino with buthout Chimus\_

horns com y are meturations of the bu
hoular in the feet occasioned by
others to hove with high heels
by which the weight is thrown
more whom the locu - the induse
the portion sinho dech inquies
the neighbourny bends & often created
intolerable peine-trader eoftens
the

the corn so much that aportion maybe out off- the polarister tores line the lorn from presence ought loke thickly spread-The Morns demionshaled resem ne chon whe culcular Meyboure also longetudenal filres\_ these lare worted in a cyst- unobush however no nefrel could be her Comed, They are removed by and ling the eyol - Other hard lumors have been formed by exudation Vebrying ofmaller on deflerent parts ason the manna umblicus Lips- application ofwarm water alone removes these Stealome - The cyot surrounding The humor is formed merely by con denseel cellular substance - By The microscope daphears mail. The mass in a steatoms is complete My organised - every beg is survious ded by its hroher nefsels &membrane

there himors- therefore an epresation is necessy the humor is to be cut out - how never met with a single insterne where The Steatom was reproduced - this must bacechan hence from the removal notha vry heen complete - adonge Indeal incision outhers the he non is large a concal one or one resembling the letter I may he formed & the hunor defreded out - the commection to the neigh bruny harts is very slight - extepling where the humor islange no party me when ought where umoved - the wound is to be are curally doved-Sarcomala - the humor very sel dom is absorbed - therefore another ahon simular to that above will generally be neceslancer Scherrus of Me Swerdoes not degenerale unto tancer - The Lungs are seldom atterded with

Mer Me Brain - the Salwany 72 glemes are in a great Edgue exemply some ancer - although De monro her met with somein stance of lancer of the Paroled. lancer seldom begins in the lon globate glands- and more frequent by commences in the longlamer aleglando- the Bones-aulia ble to concer- and the shir eshe wally welderly hersons dark wants asupor the face are very aft to degenerate into Cancer such humors ought lotee all out. as coon as they appear - The Shin above shelow the knees peculiarly subject to cancer-Wants affect the houses of theld tyoung people not apl to de generale into bancer - about the anno bromed fici - Marls from benereal bompleunts appearon The Penisa Scherrous degenerating ands

Cancer of the meanma hers origi newes from ablow- the schernes is more prequent in Mesunder party me mammed - from the prefine of clothes- sterys acting as ablow - I mono her met with trita few ins leunes where schor ms sollowed inslam" after nur sing- Cancer more all to al leuk about theil time when, The menotrual discharge becomes ivregular between the 4B & 50ths year - the fullness following affects The mamma stowly as actou does more quickly - An absternious & Cooling regimen night prevent the pequency of cancer- facended to about this period - If the small o haverened be out outearly Aka Xuna dis observed xulefo li able tore cur Men where anchen alcer hers been formed - The mal Her is modured then by megland. itself- Lilous not proceed from the

from the meif of blood having been, tounted\_ of the humor dues not quilty disperse by mensual meany by abstinence de cooling diel- the mamma she whole of I ought to he extispated - if ablow ean pro due the desease - the voulation of 4. Mustone no part of the gland should be left the landy have the seeme effect- Let the Augeon first be reseen there no Mer part is affected by the decens as the menus - The pentral party the treast is most prequently affected & the nithble drawn inwards The gleeners uneter the pectural mus de are swelled - & from this the glemers in the axilla are enlarged Meglands behind the clavicle are swelled - the swellings arise from brans lation of maller - not pom lym pathy- Insuch cases the oheration probably will not be successful & we when decline the operation or

and me untered to methe the open ahon- me que a very quarened prognosio- suce are never to per form the operation excepting which me can remove the whole of the swellest gland of the gland ad here whole of the probability of the operation succeed my is lessened-but may get he per formed-

Descrition the Portent ought to he pleased horizontally one cough the afis land pleases himself at. The shoulder of the Patient to the moved the shin ought to be re moved but what covers the Patient as this is hilla variote-ofaglanderlan na three- both a common scalfel those longitudined incisions are made from the losh to the bottom of the humon-beginning howards the axillander than on each side of the months the Shin on each side

side of the tapilla - Thousas and lary gleines men he excumindwhere there is an beterreatous swel ling on the Breast we maybe melly certain that the accompacil lary glands are cularged - The Shin whe separated with the manning is best made of a shahe like the Dechon of an orange - hecause Then helips of the wound anny more exactly after the glaneiro Mahenout - The Shin is loke out sected back on each side from The himor- dany artery that Springs if it comes from Me Hin it ought love immediately tred but if it proceeds from The mein ma- dis needless to hie das il will be but again when the Break is repenalea from behind - The afin level merely applys his pinger to 11- after the shin is removed himsed buchwards- The gleinelis

If scharcited from the inner parts beginning at the sternin-by which means the Suyons heisale Meassisteme from the wagulg The parts - sure avoid Culling the lenge refrels rowards Me axiela until the last strokes of the opera tion - The wefiels hweever from The internal Thoracic actorys-The Lugeon examines all along with his fingers med no henden ed horhon may beleft - meBle Miny Mefrels are love secured -Where the aucleary gleenes ad here to the anillary artery orbein . it is by far the best method to lurn hem out by the finger alone-

Lecture 103

Mee are now to consider the Leal ment of but himors as former then carrier - & Ishere hegun as usual to show some proparations

18 ramples of Polyhi which formed /8 within the cavity of the nove - 2 In one apertion of the humor projer led with the northel, it was of a can cerons nature and grew again in a short spore of time 3- banons Escamples of oxcrescences from the annidales - 4 Examples of sohet he mors which are very verscular ogien outhorn the Basis of the cranumit bung down into the throat - 5 a mo chgions tumor which shelched from the wh of the asophagus down whe very bottom of the Stomenh-one half of it was taken by an operation 6 Polypus tumor hanging from then Temo- 8 Slemorrho coled himora-These are solid - & name small cells which contain awatery lignor- The Cowiless in which these himors one for med are mucus membranes - and Hey all have avamench in appear ance - Such himors might beneimed

with propriety- Enternal Scanomer ta- Mey seletom appear in young people before the age of miberly-they are divided into Poliffi of a hand buregular and into a smooth & soft hind- his last theeds reachly infrom the emalfest injury- and very deletom degenerales into cancer-There the constitution is otherwise is trated - blancinaling pains are fell Simles we can reaching remove the I whole of the themor no operation is Notice allempled-In the rectum these himoro are ter I med. Ilemorrhoids - which instead Sbeing vancore veins are most Werlainly sarromala or alleast the Eguerren part of the swelling depends Spopon this circumstance- internal remeeties- nor time has any effect in cussipating such himors unless They are situated about the verge of The anno- where cometimes thewhole Sumor the Shin excepted how disappeared

Course improper - after the Polyhour exuescence her continue a for some, theme Mey remeun steelionery-and in this estuation - unless the bleed much, one meanthehend the parts in the neigh bourhood may be mader welly injuredit consequence of href sine- or mat the Polypus her uleer ated - me ramer deley an operation Instruments - Meanlum orio of barenged- with a pleue of merae ao ded to heep down the longue - Scipars - Forceps of various shapes - shought or crooked - they areless and to slip of when the blades are made strong and short - the Polyhi are directed to he torn away by these - but such in Otruments donot remove me whole of the humor- where the sumor grows from a deli case bone we may free. here it - I'm the case of the Othmore bine it may pass to the Brain- Such humors are vernoued more efficer ceously by hearne drawnround

root of the himor- aftexible silver Noise - or congul is used for this hun pose- Il Camo's instrument for drewing abnot on the wine - or Mus is clone by sholing aprobe bain an eyein it along one of the threads one hing the necessary resistence - Where the Base of the humor is broad sil us lasson a brooked needle ar hed by a double ligature cach ligature howing of a different whome is passed throught the base of the tumor & scharding the ligatures on each side! The base of the tumor His commessed in two ownerent per tions - asingle knot isteed, Mel it men afterwards highlened at pleasure - where such broad he mus are deep sealed - each ligature is pafred through ahollow hive & This heing hiroled allo like a knot or a double ligature merghe hafid who we me root of the tumor by a forone having asked at its extrem.

My & the haarmes Iseparated omade to include the humor- the ophorde exhemites of the were or takent being neifeel through abolion hive - mery. also be carried to the root of the In mor- both ends of i are then tobe hvisteel-Where the himor is ocaled within the nerge of the anno van operation is determined whom - the bakent is oh recleer tomerhe an effort as 4 goingle Hoof heseldens needle is hafred through its base the ligatures hell on each side -In ewellings of the any dalo mesame oherestion hero been performed - but unless the himor is hand, known & inhedes respiration no oberation is recess. I the humor wree generally he diminished by deary fying - Bloodlet hing Ica Within the bagina tolyti are removed by haling a wire round the rootef it by the ligature may be it by the finger & inserted through a dowle canula - by drawing the

extremmees of the wire - In Polym in The Throat the bearing is once - the smell impaned . The panent is drow of from the prefice on the jugular nein- the tumor pours one great quentities ofthered exhausting the la trent where the humor grows from the Chenciel orommuiolbone the double camula of Le Dran-meny he onlered by the noie- the culgul is prescrable whe down wire- because more freeerom com he used without breaking - the tube orlect is entered with the flat side lowerers thesephin namin - to avoid injuring the or Spongrosum inferiors- the cargul is then prefred down - it shales on the back of the swella - I is land hold of by the linger in the mouth or w split prope is used whush where noore over the root of the huma; buthis may in general lectionely the finger when the humor is included inclosed by hulling the extremities 84 The calgul without thensener d is plein the work will be streighten ed on the root of the tumor - the extre miles of the threads are harsed thromigo at the end of the curve com la they are fixed there . There is no ne cefully for horsling the ligarine - after The himor is removed - the remain ing part of the root of the humor is Wheeles broyed by comstir- introduced Mough a camela through the nove My a finger introduced into the mouth The cours lie is duccled to the root of the Polyhus- case of the enormous Minior which hung hom the Osopher gus into the stomach- namalea by I. Menio in the Physical Esayo Mewhole of the humor might have been removed - by introchicing into the brokhagus aligature dowledon after probe-then the patient mething an effort of vomiling throws the hima himsel within the durited light himsel within the durited light hard a fleser the confident hafred along the enels of the ladged it may be highland over the wor of the himmon— In cases of Glemonthayy wom the none— the openings into the throat another are to be thop field up dry-spronge resembled in subscience by highline thandage.

Lecture—104

Nevers Materines. of a death red colour such humors are apt to fester and bad loves form - their growth is rather & proportionally greater them the body by carry excision the completent may be prevented from becoming hereel lary - where they are smere hard and on the centrary where they are soft compressible exasion is proper but on the centrary where they are loft compressible scasion to be onerete up solely of two every feels - the cherahan is dangerous sought nottone employ

J. Bolls ancurism by Ana stomosis

until the patient hers gamed strength.

2. Information and crossion of parts of the larynx-3- accesse of the Michine of the Oxophagus- androfin took place the menter trusc mothe brachea souf cated the patient-

Bronchocele- Swelling of the Thy Wielglemel-happens openin Wo men them in men-generally not becapter the number or tenth year herend met with anino lance in which the Parient from the size of Mehimor were in danger of suffe Cation - sometimes it suppurally The olcer much resembles there Jascrophuloro nahue - in some instances the matter has trissento the Iranhea dsufficated the Palienty sometimes water is wheeled therein great quantly - in such instance a scton may heused with advantage at others wherethe humor hero con Annied

continued for some time. bloods collected. Difseeting out the gland advised by W. Shearpe frenight with the greatest danger. The Bloodweffels the vicinity of the 8th pair of newe otherwhom of the streets any operation of mis hind. The gland usinh tercums lances whereit inheres respiration is where leften certify cauchie or by inhoducing a solon.

The Osophagus is subject to streetine I meturation - mercing comonly be useful in wenercal cases - as least of Mount of bullen chant find it so By patience of presence once the Oso phagus may be chlated by bougus as they methra - introduced by bougus as they methra - introduced into to enohence or from the nove - where the streeties very connocerable the Patient is to be feel by injecting aliminal in whe street on the directed bards when

Sometimes the Stermin may be cut out bafterible have unroomiced.—
Sometimes the Esophagus is affected with spasm-mone care this heat pensel upon encleavouring loswal low sucletenty a cut of hist small beest. It was removed by an ano dyne glyster - where it is more per minetary manent - mich here glyster & bifil continues after three or four weeks the strenue much beforced by a bolow fute - & aliment injected with e stomewh -

Romplein of emphosile habite
Romelines happens - Merlis Me & so
phagus is affected with ffessess Para
lysis - which is cometimes parhal
orasfeus the orophagus alone - mount
ing soups are to be injected into
the stoment through affected into
the stoment through affected into
where meat is reterined in the
orophagus - we just intale the

Mefances werence vomiting-where · Nis not rejected by this means- we encleavour wextrail the morsely meens of a crooked Porceps - where vespiration no obereston so seces Mipatual intestationes seces Mipatual intestationes sary- anothered is injulied, whe substance may zerdown during blech where newes not - I meny be bried downly a Orobang- med is a long herce of whale bone towhich a sheroidal perce of wory is adah red- Mus is preferente withouse or perhaps a Hexible metalicustu ment of the same shape mengles med will advantage where apilce of money has been eval lowed ablust hook fixed a peice of whale bone - hurning - he hook behind hom the Erachea-whenil hers papeer the substance it Frew in bushful must fol ing back the instrument must be low\_ Pino - OF #

Where Lemdanum has been swal go lowed - by means of a flexible luke introduced with the stomewhat merghe diluted - or by allowing The clastic bothe as the extremity Me luke lo expand tooks by w means the contents of the stomach myly be extracted -orwhere and ad her heen swallowed by mis latet an alkali maybe thrown dutiere itis necesoary Emeties ortasharties may be guen in the same way - It is notwel Ment Suppore how of the amydale men by bussing sufficiente the madesset patient - he instrument of Patile is hest actented for scenyfying Thearny dalig- or evacuating maker hom these In Mele onsumes the writed many he evacuated from the Somach by introducing a flexible hivernto the woment

Lecture - 105 Shrenne on the rechun resembling The paylorus - divided by Mont? Defserns Instrument-with great ease oxabely- Co Death pom banging ordrowning is caused in a similar way from obstructed respiration- from foul air- death is procenced acting whan the newes of the lungs directly-orin directly upon the beaut through the onedum of the thood -- or essis more generally believed from the went of oxygene gav- the Poulair preventing I from entering - a perforation may be made into the Pleura by asmall round trocar-forcing in al mospherical air into the Chest by which the lungs are compressed the fone air expelled - the air is wi thrown by allowing the class he bottle to expand welf-at the same time the atmosphere air rushes into the Lungs- pish.

Where the stood is deprived of oxygene it becomes of a dank lived colour and is now unfit to sumulate the beauto action- the beat of the booky gradually diminishes- allast the comes quite cold- the person becomes insensible and death ensues After death the lungo annot remoun tollah sed- because the air from its gravely nishing in must distend them - where The respiration has been suo pended for fue or at most len minutes. There is very little probability ofrecovery Meonghe then very early Lastoonas popily arrenged lockistened the lungs with air - & Meins hument used for This purpose ought to be introduced into the noshil- which hangs over Medanyn X - covering the mouth with some loses of wel Taker the hand land over it - an afriolant prefies bout the Langux agains the

27 93

Osophagus loprevent thear from entering it - where a bellow is not at heiner - thedungs may be dis rended Mough asmall wooden have I anterest into the nos tril-by blowing into it - or a cuer wel house the same maderial may be introduced into the dangent lawhich the nozled the Bellows many he introduced - I monro recommendo actouble belows - the when Belows has a valve on the outside - in the under the value is pleased within there is apartition within - when its handles are deparated the almospher se air oushes into the under belows the when one isfulled by the foul air of the lungs - hystruting the han Oles the 1st gets into the lungo- the the ford air or a common below hewing a perforation on the when eide fit bet by a metallic value - 57

may be emproyed with equal at vanleige - the bellows are first open cel-allowing hevalue to remain shul- he foul air of the lungo hees themstrument-byelovating the balve - & emilling Mebellows this nespecced - opening them again the atmospheric airdinences the Bellows - then let down the value & file the hings - & Mexame is no Beated acternately - Fransfusion of asserial Hood propored by Ford les- recommended loke tried-di mulaling-glystero- warm bath Iracheotomy- renewed necessary from the Irachea being obstructed by extraneous bodies-drawn in dunng inspiration - from himors about the ocoophague - where mucus shul In the rima glothous - in the lynan the Trachealis- from swelling of the Parts in venercel cases - In Bron may save the life of the patient. month

Therahon - The Portent onghlore sealed on alow seal before the Sugeon - the body hended back wards - alongetudinal incision directed let it be begun-direct ly under the critoid Cartilage ten huning Notown arouple of inches making the all between the Lier no hyoydai muscles dwieling the Cellular substance between-meane underhe necessity of dividing the middle pertioned the Shyrord gland unless the cultie is ungent Cet us payse amoment - allow the wefrees wiled treely-next he who the larger neful, by the lenaculum & stokheny orging from the ameller by commession with a sponge - after the bleeding heis cased we and between the 2 & third my under the Cricoad can hluge - togan abreefs Lancet - Mis ohening is preserved by the introduce hon de double connela-fixed

round the nech lyer colear - ne Camila maybe removed, eleanits regulates the position of the district -Languegolomy- when the Languet is to be opened the incision is made higher up - the opening is made between the Shyroici & cry cord lan Mage- Mis operation- preferredwe here avoid the Shyrord glandare guideer by certeun menter. The parts are firmer delond so carry close - any substance shehing in the Laryny can by this operation be more reachly extracted bea Let us take - come that the air-do not get under the Shin and motice an oinfily eema-

Sechme - 106

Mudges inhaler - the eurenders of the pollow in the handle & paf 100 es from the ener of it into the houses uwahour is drawn in from the ener of the flex who have maybe

IT impregnated with money-the our from the lungs is expelled by the side opening-(a) Distortion of the nech more frequent by hom Spine bentoze then from a Contraction of the Merro meroloid muscle - this may however take place - when it is love awarded del this he done by contronsly dwilling mescociach of the fines whon a furrowed directory- bletch he done at the Sower end where it can be done with quater safely hevoid space will not fee wh with flesh, but the ends of the musile force he themschies to the Cellular lexture - l'esses may oc an where it is necessary to charde Mishin- The void space felo up. Stare lip-frequent in Children seldom in the under lip - sometime, there are two planes hence the term Labium Jeonimum In anumberg

the of palate more from the of maxillare superies the lifune extenses who bones - and Thevelum pendulum palati-X thewould are also divided - The borner is imperfect Lawif lifteet wh sother there is aummunication between the mouth snow - Some Annes the middle piece is moueable ardher homes fixed - The line is per · formed by removing the callined ges, and applying the parts ligether where the Chied is meventeer home enching from the fifure we oughtto perform the operation immediately where the lifnue is donote the Shin love we operate upon born at the same hime when there is not the cause the formed are united at reparate times The sides of the ohening are first tothe separated from the gums-making use of a shoul printed crowhed bis bury-next the callons edges are to be out 1. e a Mun suce takenioff- the

99 thelips are held steady-by means of a forceto knowheder night an gles I recommends the liblo he hetit sheiched by the linger and thumb- & brooked scifoars are used to and off the colges from the figure-il is thus done more accurately- the Surgeon places himself wehind the bead of the Patient - & sternets outhan siere where he makes his cut-- the angle must be removed The sides are to be united by the pristed su Auce - a gold pin - baring asteel point occerved on is used - which after it is passed is removed - the red parts of the lip are adjusted with the ulmost exactorefo-entering the pin there first the 2° pin out love hul in very near thread the unher corner one thread waxed serves both pins- tegin with the. owing it over the under pin croping the thread- after me paris home achered The thread is toke and Mr. In noverse should

should the pin be removed earlier thein the fourth day - where there is aretraction a pleifo les applies lo. each check - may be trought to gether by ligarnes-lied between these-I. memo prefer the round him loone that is flatter- det me Lugeon hels begether the lips of the lovered Whilst he werrous the Pino- andre moving the up permost first - The same hearment is necesty when the lip is dwided by wound Where the welum pendulum isdi arded by a crooked seif are hourn brought it forwards by laying hold of the wula with a forceps- hing The edges of the wound by markey use of bheseldens needle- the eye had is united in the same way that the tip is using the interrupted sulme instead of the pins-Where the lip is affected with Cancer the part is tobe out out making the mußsions meet in anangle lowards

Lowards the chin- where the cancer is broad a Semicircular perce being and out increases the length of the wound wherea part of therrow is cutoff a peice of wax is adapted do hahed whe nove-then it is Plantened out & applied whe for chead - de piece of Min-ofan equal size is difriend out then the edges of the mobile where the want is the stren of the sorchead is then lokaled down & hirned - so as to fit the parts - after achesion has taken place - the next of the slep of shin - at the root of themae which much he left to continue the circulation is now cut The invention of Taliacotius. to be where the Fromum Linguo is divi ded- Potits Scifoans are used - Man afris land sterness behind to dibraige the tongue - any reford which bleeds ought love taken up Where the From um is too less. The longue has been

meful buch so as to mercue suffe Certion - the childes Cipe was sauced hyprilling forwards the wigne by the Singer (vide Polite) -Rana and Ramila - monecase the matter distending the eyel under the tongue - is merely from inships bet saliva - the chiet is generally found to we obstimered by a calculus prefring against its onfice - The Enter wor maxillary gland of the same dide is generally found Lwelled - The Calculus is extracted athe bagera created byen operation - I we at timple including an acception of the order of the sai -Where the Parohel duct is churcied Inour would recom ameshoody Bure advised by M. Latta. The unodu ang - a peice of cargul into the oluch next the mouth . Spaping the other and ofil into the and next the gland brunging the ends of the wound acoun

ately together

Operation - The Parent is directeello more the year tocause ablow offe. hoa - then by a Willbull the check is herforated by a personator - the pandle of which is removed - whom The perforatore bougie is introduced and a smell cumula HAMILE told whom the ender the bougue within The month-il is brought along the bou gue into the perferation - butis he veried from going further by a pene of stronge - then the bonge inemord the canula is supported into other hon us long as is necessary & the ex ternal wound closed-

Lecture \_ 107

Descases of the Ear -

The loke of the Een is persereled - for the pore of wearing-lavings\_ It is suppor tred on a perce of contret is herfora technon it by a hollow silver needlehaving ashoung stell point which

Michi whe corte d is removed with Wh it-aprice of lead is introduced in place of the Librer needle until thepart grows callows\_ The irrembrance of the drum maybe examined by discoling the rays of highl upon it-fulling back the love of the ear lobring the contilagenous and of seems parts into oneline - Ingeneral Where animals have gotinto the Ear They may be heled by drophing oil into the car- stopping up the traches of the animal- then I may be was hed out \_\_ Where wase is collected in the Gar and meluces Deafnofo-Let I find he softenend by some warm water which has a little soap dissol weel in it - this answers heller than oil - then the indurated parts are horse by an Ear picher afterwards washing on the wax-by injection - Tution to has observed in three cases an ulcere hon & hole in the lymparium

which select up and the hearing was
restored - an injection passed from
the meature await. Intern. into the
month. Mirorgh the Sustachian luke
appling of lowon is necessary to hier
went the transemission of air in the
same way - thromete the healing
up of the ulcero - Polyhi - are removed
by surround mytheir root with Calgut
hightening it - by hashing along the
ends of the lighter aperforated piece
of metal - the rootis afterwards over
tryed by Canotie -

Wherethe Enotewheen have is obstine led-theair within the can becomes effeth and duleness of hearing for lows. It is merely hospith, to enter an instrument into the Enotachiem the from the nove - cureting d with the hoger into owned into the mouth under the Polate - Injections. how ever are not at all useful owne cessary — Butwhere the Inte is other who

lake is obstructed in consequence 166 of ulceration & fungous growth this a hereled canula the like may he opened-babongie inhoduced Where in Chiloleren deapress auseo hom awant of an Enolachean Inhe - or closing up of it - a herfor abon of the Marleid Proceso- and letting in air into the courty of 9 Lympanum we may gue hearing-In other cases of deafness- Inempels are useful in collecting soundthe model of these may be perhaps laken from the Ear of alarge Ina · Druped that hears acutely - as the Herse - there are made of then Brafo or Silver -Intesculation- Instead of instour lang the Steh which how been my having been cured danger from the means of effecting this The the sauce where a festula ani is healed up,

10, 107 Small Pox rendered for less danger one by infformation - the such or one seventh part die of there who are affected naturally whereas not one in an hundered du when Meetereare is untoduced by unto in Bythis means we have it our power. to there aproper age of the Patient also -a sroher season of the year he Infoars the Patient - Sean heal butue to the Pal! previous whe comption - Collected Cheldicale www.saarrawblaseboly - Small by were not known in hirohe until the 6th bentuny when men were certainly as Robust thealthy as. They are now- therefore small. was not intended by nature to under other diseases more mild\_ The safest period foundsoulding is after the 2 year when the weth have appeared where a look mel

hiefres agains the gum after in 108 to culation Let it be instantly charecel - The coldest period ofour year proper for Entrocular hon - or about his Leason much or aprill- The blued for some weeks previous to the operation ought to be feel infor anegeterole chel bane one or how gentle Lancatures of necessary - Let the Child also be acuro lomed for some Anne before to been cold- det the matter we hash if popule and from a healthy thild - a weld or The dancel gilded meing he med. to avoid must - brude mal Her from an unrihe public has Juguently proved more success ful than that from a maturaled pustle -The part for making the Puncture ought tobe out of sight of the usual

part is uncer the dellord mus cle- The sencet is introduced withits flat side low ards the arm under the scarf-shiw- if how franchines areto be made They ought tobe at the onstance of an meh- after the Sancel is introduced - let it be held there for assecond or two then letthe shin be mefred down whom the I lancet which is then love with From The marter fis sofrened on the lan Cet by holding it over boilingwater If the purcture swees & looks red on the next day me many becertain that it will to he effect det neut some purgamees be quen before the omyshon - The matter of not multiphed in the general heafs - but the shin argunes the So therty of terming mobiles and Divelucing vanolow matters

Muholson Encyclopedia. art. Surgery. Con Joe varioto vaccino vaccina of This is an universal poison deri old from certain specific sores on The leads & woders of cows, & capable of being communicated by acciden tal contact, where the cubicle had been removed, or by means of moun Canon to the human subject. Afrenon who has been thus affected is rendered for ever after incapable of receiving The small from injection. That Int jests, who had laken the vaccine dis case accidentally, were thereby secured from the Imale pox, was propularly known in several of the dairy town Ties in England. But it was second for Jenner to show that the low pox could be propagated by insculation & hat he inoculated buseau popy Led the same prophy tachie power as the original disorder. It is not a merely local affection, but produ Ces a general though extremely mild disturbance of the Constitution which is ordinarly so trivial as not to excite any alarme in the very youngest

youngest subjects. It rems proba He at preunt that it is not an in fallible recurity against the small pox, although the number of fail wes is very small, when the allowance has been mude for the mistakes of the ignorant, the mis representations of the designing. A Small inflamed Spot distingthe ath & about the third day, shows that the & moculation has succeeded. This & increus in lize, becomes hard drips above the level of the Ikin. asmall quantity of fluid can be discerned In the centre on the 6! day, & the pustule Emcreases until the 10th day. This fluid I will communicate the desease by ino cutation. On the 8th day when the pury hele is fully formed, the Constitutional Effects begin to appear, & manifest memselves by slight pain in the part & axilla, head ack thucring, top of appilited These Inbjide spontaneous ly in one or how days. During the giner sal indisposition the pushele busines & Surround with abroad circular in Humed margin, called the arrola af howards the flind drosup, to make

The Patient is Notice hept cool un 116 les a convulnue fit allenels-& then the west preschie is inmen sing the Chiler into warm water Theillseisles may be communi cated by innoculation by applying asson to the body of a person leabour ing under the desease & inhounting Il into apuncture in another whom the intend to innoculate -Where a person is bit liga mad dog the part oright tobe immediately autoute but even after how or three weeks this may be done theta head saused from the descerte be course the disease com I does not appear unties after the 7 or 8" weeks or for alonger time - where this connot be done - The Part is tobe des broyed my comstre Lecture \_ 108 Chungical Freatment of the beth-In landy infancy- there are In teeth

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in all - these Completely file the jaws Mere are six on each side of either sow- they begin to annear alabout The 6th a 7th month after buth works me added hywhich Meyere reused press whom the gum-which is absorbed dhe work appears - in come greene of the shetching dornlation from this - more or less pain is modued. Jum- Sticks are improher pomsher increasing the inflam" pomtheir hard hefo- therefore the finger is only admis oible - indelicate thilderen - hom Mus imitation - Sichnefo- womiting Ourging-lever- longh- have bollowd beven-convulsions terminating in death- in very delicate bhilder en- Topical Blood letting by a Leech a how thewarm Bath Lax Thies may be green but almost mevery case the most effectival remedy to dividing the shelched gum - avoiding young loofar in

inwards here we not only let Hovd from the pail but meetwide newes which are whon the shedh I even altho. The opening bemade me maturely- the symptoms are guar ded against newes don't often adhere - besides the acatrix country separates again - In one case thorea Sanch bili arose from the shetching of the gum uponthe tooth - Swelling of the amygetalo bane heen caused by the culture of the dentes sationlis The gum is divided by a Scaryli calor or concealed flam. There the first set donor reachly quit the jene - othe root of it enclanger of injuring the permanent work or form abon of matter - but as the first que the Lecond the proper direc hon, they ought not to be removed as officere their abstraction might

he drawn without using much force by the finger and thumb. laries does not necessanly bollow abrewson of The commel - In cloterly People where the both is becoming love little can he done in fixing it - astringent In chines - of Back - a Myrrh may be presented - but where the tooth is elevarea from the sochet in conse quence of the went of the resistance hom the want of a worth on the ch posite side - an artificial with well have the effort of preventing this -

Savar- whon the Looth formed from
the Sahva- unless it is separated
from time to line- it lockges about
the color of the looth- purhes between
the grim & socket & meny deprine this
fits nowishment from the aefsels
arising from the grim. the fartar
meny teen recent the world the leeth
t make it motivese ordestrop it
Therefore it must be separated
on

occusionally or scaled of from time totime by inshu ments used for the purpose - sup porting the worth at the seime lime by the forefunger of the left handnext the been are affected by sarch arine maller including wotherh offum The density of the with head gloted is more directly applied to the nerue of the Leeth - The Leeth are affected in Buchilis - In Juny - Lies benerces - Mercuny affects the gums doches much wasting them- somel after repealed courses of Mercury the leath Jug! drop out. Wheumatism affects The Leeth Plethora - hence intomin with bhild - Pour in the seeth is often complemed of the Pain in Look ach arisco from the confinement of The enlarged influenced pulp within he look - The Culp may suppurate or even become gangrenoris. Since the we the matter confined wice des troy the work - By diesease the ena

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enamel is wasted - this is frequently The index of internal des huchon of the looth - Iseletom proceeds from we Moul but when Mis is suspected fel ling of the blech or bown shot her been had recourse to by Dentisto-Mis is an unproper practice-hecause me allow the auch of air to the tooth by Which is much sooner wasted In no case are the west love levelled by thefile - for new obvious reasons. In Noothache - Inchuse of opium ored lened ofmen putinto the bollow have alloyed the pain - ardent spirits with resmons substances as myrrh-Electri Cal Shock - Terror hom anhrowthing a red hot iron to the loke of the can & burning it - Evacuations - Topical Bloodlessing - the save the worth - the Pulp by he destroyed by abot won or by inno energ mothe onfue a small bit of Coursic & after me puch is ares hoyed - the fairly of the work to heled by tin- leaf houng asmed instrument

for this purpose In one case the stuf fing remained were holeon for 3Byeens Where these methods fail. it is necefy To relevue me portent to eschaet the work - (Instruments) If we cherate on the uncer four-les the parient he seedled on a low chair before the Surgeon Orthan the tooth is below the hand but when aboth on the when your is whe pulled let the Parient he laid along the floor his head between The Surgeons knies- who stands he hurd the Catient- first the gum is to be separated from the work to mevent its keing torn-perhaps the sochet ought also love deparatedbavord heroluming the faw which of len happens as the order order the socket is the thinnest the ins frument and the tooth of auch from within outsvards ought to be fixed on the outside but The backmost kell are drawn from without inwards - The Claw of the Turnhey is applied to the Me colland

the looth - the rest is made whom the serving on the ophosite eide - The lurning the forced out: If any vice every tollow the Extraction of the both the bothers shifted with shouge or apene of a The antrum maxillare pomits vici mily whe teeth of often affected some ames it is in a concerous etale - The bones are soft - the Parts swelled The Patient sallow wasted nocheration is here tobe thought At but where ought tobe unever the country one of the motares, extracted unever the con vily- the merler suns out where it does not abole is dueled into the lay a perfora los one seine operation may he needy to remove an insect silve aled there Ihrvancing great custiefs-The Dirus may be filled with to henry mo it orlinery he myested & L'alarrach hythis is understood an spa

opacity of the crystalline less or its metatrane - at Birth the leno is mud dy-dromewhat opaque ou some instern Ces this has afterwards continued The Enplaileme lens hers been rendered spagne by ablow - in old quadrupeds the leng grows dem & arquires ayeller linge In the lens then there are cerculating and absorbent vefselo- inducing such changes - Of late meheme ween week That the spacety has been removed by the external application of the steams of other whe vale of the eye - when the desense exists in one eye only no ohere tion is to be performed. Thevision of one eye suffices to the perfermance of all the ordinary and necessing functions oflige - The durgical oberations performed in this complements - consults un distod ging or removing the lens - Before either operation. It is necessary that the eye he fixed - the tingers are mont Resent for that purpose - & instruments marned Specular are need- These at

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these at the same time make presoure upon the ball of the eye- W. Millers arenlar speculum-improved lyrem oving apart from the side of the cir the recommenced to allow of its removal in conching white the instrument remains in the Extraction of the Lens-The Back of the cyl hinfe need to divide the corner ought love sharp alittle way only spiss for enough to allow thee sexe of the instru ment to enter- it ought tobe made per feetly comeal to retain the agreeous hu mor asu enters - it is entered althe outer part of the eye at the distance of aline only from the Sclerolic was ins the house is carried acras passed out at the shhosite side; ther carried downwards The flat is homed upwards abbunt porte flatened at the point is introduced thro the Pupil- & the capsule of Meleno punc hered byil alis anterior smittle part then my gentle deantrons prefune the kens is forced out through the public the capsule sorvener remains. Ino By oxaming the contractility of the Putal

pupil upon the comption of higher me de 126 34 termine whether the inis atheres whe lens in amourosis- there is no opacity- dishe Ceded by head ach - & perhaho paralysis of other parto- the eight is improved by assiving light on the contrary in later real the reverse is the case the parient sees west at wilight been incurry corse the capsule is left - otherefore al Though it afteres whe in anoperation maybe enceppel even where the cansule shelf is opaque- by surrounding the love partoful hythe needle it may be to hen out whilst the posterior part which meny he bansparent is left- this culease gues the pat a chance of right alanyoute meleane him no worse than we found him - that is if we take care nor to myme theeye to any depth - its me examine more objects below them above the eye old retern aportion of the agreens humor I may be necessary to cut the flat from the upper part of the corner himing the sharts edge of the instrument who was Liste Parient beseated on alow stook

Do that the eye is or alevel with the hand of the operator who seals lumsely before the patient allowing the light to face over the shoulder - he resto his night cloon upon alavle of proper height- the ring Hillefinger of the band are resteur pon the cheech of the patient - abler the flat of the cornea is made by an incision it is to be supported by a spoon-first removing the spe culum- then a needle is introduced to puncture the capsule the Palient is himsed round with his back Nothe tight - to mevent a contractioned theiris- then hyslight mefine thelens is prefeed out the eye has are closedlooking applications - applied over the eye - Sol. Oal. Phimbi - heeping the cloths constantly moist- both eyes are reacherthe Parient lives some Wood which many he repealed Anecepany - is hept one working thet-donfined to a dark room-bea Depression of the Lens for mis purhore needles are used - there are phinged into the body of the leno- prefers a round needle howing a lancer points the needle is enteries at a tenth of an inch beith.

backwards from the edge of the cornea it is then pushed behind the irio into the less which is deprefred by eleva ling the handle of the instrument the lews III MANNAMANTE & after a live the motive ment is removed - in this operation the retina is unavoidably punctured and lacerated. The celliary morepes are ingreat danger of being injured but further before the instrument reaches the lens the capsule of the vilreous humor is herbira traction preferred to coughing - Where the vituous kumor collects in too great quantity so as to enclarger amplimed the coals of the eye- Ederange med sun ahon of the parts a portion of it may be let out my purchue-da emular operation may be needs? when is agreeous huminis welleded Lechure - 110 (in loo great quantity) After extraction mecapsule of the lens remaining sometimes teccomes utlamed the condend I momos Inealise on the Eye page 99

Inbstances ovulating theeye) The rays of light from facting upon the Relina - the bapsule may be in some plegree reparalect by introducing a Coughing needle althe when part of Theeye thro' the cornea sothat we I can examine the cheration through the penful - Where any orulating substance has got into the eye or Junder the Palpebro- this is removed My separating the eye had lifting it wh My ablunt book - & then the irritating Substance istaken out by aforeche forwashed out by injection where shark & smetallu spiculo havegot into the eye They are removed by enterging alittle the opening another it entered andex I treeding the hand body by aslender france of porcess or a country needle maybe I will for Mis purpose - Where the ad Shala is enlarged sprounces we may sentout the portion by acommon seal pel-laying hold of the fold of the ad I hala by passing aligature moughit

apply course but this seldom is ne necessary - and Searfreation accession will in general answer the Purpose-Luphore there are vefrelo and spechs upon the cornea- such nefelo are a new tomation deone from the suni ca adnala-they can be traced fromitbelowl proceed from an error locior the admission of red particles into reef cels naturally conveying serum only such refrelo arleist secrete an opeous maker In such instences Meler game Emelies- fantimomore wine - he seldom used merening - posevious to his operation he fixed the eye with a shearlum, then Scaryfied the lornea culling themembra nous horizontally. & perpendicularly after this he applied aplayfler of deathy lon over the comea. The ener of which were applied whe wehend scheek of whole occurred by a compress of andage he performed this operation with sinces Mr. Pollier agenn used a corronve ontment Muster de during here the effect of lefren

befrening unuead of increasing me inflam! His ourbrient consisted one part of Merc. Milal. Price loken or Inclue parts of anienne mece in worsorated logether - In humors sealed in theeye liels - it may sometimes be necessary to ohen them especially when the selection matter is col lected in great quentity - in cases of ulcesation of them the unquentum ahimm is the most effectival ap phication - assorting of the the desired Where the eye or a portron of it is of lected with cancer the whole of it ought tobe removed as also the eye hels if they are thulkened of much inchualed even where the Lachrymal gland es cancerous d'enlarged. Las the dame time the eye is hubid & affected the whole ought certainly to be sufsected out their is if the cencer has not per lome ulerand The Eye is levelop herall- a common sharght eraspel

to prefred through the ducto- theintlem medion increases. The Leans heifs over the checito-the parts are writerled binflammed - Allan about the duch Ascu suppuration lakes place and andoor the neighbouring bones become Cerrious cape cially of the person hersam Lyphylitu or Canceron teint annels Probe- Injections of Cooling desculart be of quetsilver- are of nouse- where the Jumor threatens to burst toprevent ascar it is necessary to punetime the part by the point of a land and les out the matter - It is popule loutroduce aluke into the dud un der the or spongroum inferino-but this will we of little service - abler emplying the var - we may drok ablind into the eye which is absorbed by the puncia & - a. which attent peles

the meratisalis. Then by wrefine weth the (AMM) finger I we may allempt to force the vac-bear of other meshous face

we make an artificial ohening thro

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through the or unquis hyasmall to car-aleaden proue is into duced to heep the chening hom closing-Inflant is avaled hylommon apple Carrons - hybollynie - Sol. Line. Vrenol vel. Phimb aceted. The fac is to be empleed thee or four times - perhate The inflam may be effectually lefreneder removed by preventing the reas from entering the duct-hynning hrefring-Operation- the sac is evident from is déstention- ail may he des cours by inserting atristle into the puncte il is merely possible losaue the lendon of the orbiculario - the ent is made ! through the show begin under this undon in the sweep of the museular livres of the ortrenlaris palpetranum No harm auses hom du colling dolen don- there is no deformity from the retra chon of muschlen files - subhere The fail in entering aprobe through the sac into the nove- next are one totrails

a common deel probe through a can mula with this we perforate the or unguis and make an arhjuralo penisis into the nove between the ofser Spongiora and leastly to preserve this opening a leaden wire is introduced I howest - where it restrupon the order parte- or a small bollow have is inho duced into the opening the parts bealed over them - & monro preferoy habe of Pellier - more instance it was worn for how years speried ace the purposes of the natural duel - Mehile is introduced along the clast probemlo the chret- is a sneareastron neigh Inonro says that the Erocan abler punching the sac word de norsaland may be forced by hafring the prote or trocar in the direction of the na tural opening - into the now Lecture\_ III Accidente affecting the cramim or leve brum requiring surgecul obserations - Pp. avery large clot of blood effusedin u

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mo the latered ventucles comsing a ploplesey and death-2. Ilydatido-3. a kino of Schurous mone of the hemis Where of the Brein - 4 Suppuration of the Brain emeading from accessare within the Ear - Frachuse ingen eral extends further in the inner than whe once late - after a porhon of The evanium was taken out by the Le pour-malwing animal- the shacewas first-filled up a membrane who which refrees shoot allast it of offier - the oforfreation beginning from The central part - in onde a konsidera ble portion of the water part of the Send was found awanting in an adult entyect. Inaline seemed to sup My hedefect by an ofoiscation ing dura male at the void space - in one case of Frachuse behind the Ear the practure travorsed the dambdord but clops at the Tag Mal Juline\_ Thereing that the Sulmes do not cer lainly interrupt the course of trachure In one scuel the Bone her weensepa

separated but has grown to again very firmly-ABlow upon the head suddenly courses meensibility as lightenmy does- pommo side come recover omers - are hilled by the accident without any padine - Les wen we Moul any effusion upon-ormails ofengung done to the Brain - ani mals hieled by Electricity there is no seeming injury done to the Brain The Death in such instance to soud to proceed from concupsion-alerm by no means improper\_ Thunder aBlow or fall from wheight may rice a person without fractime - but on this cause there frequently is a mit hue of refrels deffusion of wood within Months and this may happen altho the injury has not been recent upon the Head \_ in canculation the cherahon of hepan must hyadmilling air & injumnishe paul Increase the dan be ause instancersty Compression

Consussion in hime is very often for low cet by the formation of matter on the Europe of the Brown throe may require the Operation where matter is lostged upon the Brain from the lan by guring mongh the Plate upon the meaties and lowns intermine aperforation above the Mashord Process may some the Dahent by giving bent to the matter.

Operation - Ino! Scalpel Jena arbition - artery forceps - Praspalory might not to be und - apt to cause in Johashions - a birenlar conseas shaight of the cylinder conseas ton-the sides of the Cylinder ought to be perfectly smooth a prohiboth to examine the depth towhich the aw has penetrated with a Brush to dean the leeth of the Saw from particles of Bone - to the saw a centre pew is a dapted around which it is hone d is taken out or freet integ a trug- or it shotes up by a spring

The centre pin is first fixed by making a perportation in the middle of the portion of bone tobe removed - the ine used for this purpose is termed after Porator = the least of the some ought to dand out perpendicularly The he pan works hvice as greekly allead than the Trephine dues - thinks it aprejerente Instrument\_ Elevator rigo Lentier las avery intproper instrument when such an instrument is necessary a simple ins. with a glat place of the extremity-lo remove reigged Portions of Bone may be employed.

The Pahent is pleased acrop a bed his head brought over the edge of it I supported on a clool-upon a pillow an afist is pleased on couch orde to fe one the head - two others secure the bando- the lungeens seats him self before the Parients head - hele gins his incipion with acommon scalpel - no part of the leguments one lo he removed - he makes a strongel

or crucial incision asis necessary Pollowing the fracture - the Tegument are detached leaving the interior membranes & penosteum- so as toleaned an opening for the fewhenow makes a print with it on the bone where the centre pin is to be entered with the perforator à bole is to be made bull must nor he made too large nor too dech-The centre pin ought tone of a round or cylynducal shape- with the scal pel the periosteum is removed so as not to impede the motion of the Saw- after fixing the arenten saw the centre fin is to be taken out When we have perforated the bone near by through - it is a material improve ment to hear the bone to avoid plun ging in upon the Brain or injuring The ohira mater - an clevator is used the Med finger scrows as the pulenum sev! perferations men he necess y lo remove along portion of Bone. The piece taken out must be from the sound bone adjoining Reprutino.

Lublicaction of fliviols from the bodythe colour lefo- are drawn off by House Sonned by Bhistering and Kepl open by if application of an in waling outment ung This hast mit. welfort - Ho absorphon has Caused Granging- anouthneul made by 311 the common caustic to an oz of Auseunge has been used - Aleice torder her found their an amtment Composed of one part of Jarlar ged an timony-to two of auxunge answers this purpo one - or 2 an shering to made through the shin and aforeys vordaling substance as a peer- is in trochiced - Inphorted by an adhesive playster in sumorous patients theo pening is so made by comolic - an adhesive Plays les with a bole in il is applied. ( ) the caushe is pulm the modele a asmaller pleifuer Cent over it bee by an incision the Pea

The Shin is reneed double tyanafus tent - then me pass an absceptencel Mrough lulow & chivide it inprivated two or three pear one into duced-Telons The ancients used Brotles Leto for keeping up the discharge we form a hind offines where the cut is made lengiloidinally that themal be may readily escape - The Cartal Which the lances is to be unroduced to come out at is mented with ink- The flat sides of the and himed nhwonds & downwards - the lancel is followed by aprobe armed w a quantity of lorson or silk thread I shread with some Basilicon on ung! inpus. banthasid: The Hahe of the nects. Interiorial epaces under the 12" sit Westernellet burn - behind the great to chance Where the joint of the thigh is descared above the home southe uner side meticable to one nelow oroid the ontride - under the dellord murle are the places generally thesen for such drains

the Serum exceed by a westerlong has a consierence pronontion of wage lympth - Iromale these yours the matter discharged is the same- In lo laceles. The neaver the part they are as poheel the herrer - so that in deseases made over the londent may beked when made is taken up by the A horhedor creates great descreter in the System - nausea Chivering - been It Menro has even observed Pun lent maller pafreel by stool-parti culenty in one case where on absceps was sealed under the glucoi muscles. The onsehange of kno by swol was regularly preceded by sold. Ohn eningo - In such cases the force ar ling as a gland may selewe the lyalem from this and oboos - thus loo perhaps morbyce maner as their of Cancer may heifs out of the lynems how ever this is, an fue certainly coun teracto pleshora - the marier cus chen

of a month forphores achocharge from the body equal to how pounds of blood substracted at separate times With a view of meventing cencer of snew mery be extremely useful. In white swelling- and in Scrophulows as where the vertebrae are affected of enes are often useful. My lotte expectations from their useful. My lotte expectations from their use in such ceixes loo senguine—

Blood may be subtracted from the small external wefsels by begins with a lancel withing the part - As cary fyeator herring a minter of rounded lancets con colleated within it they by oblique by preferre upon aspring there are himed round. It forsequently when this has been done the fewer of the box being applied to the show a number of enfices are made bla hing off the preferre of the externed and by a cultury glass the bleeding to promoted

a great hand of the blood arown by sterry Tuing or by deeches is arterial-VenoSection aligature is applied Cetween the part we mean to shen and the Sleart - Lancet bent alan angle of 3B degrees - it ought not to be too spear pointed - Hearn an improper instrument It might be used with ad vantage in shening the external sign If want to hing on the lon vein ligium it may be adviseable to bleed the pat in asi erect posture, make a large orifice - and fuddenly until the liga the - In other cases the patient is laid horizontally with his head low- The west ligature is a common genter- where the shiw is win held it may prefeed up Imade tense - the ligature is applied an inch above the part of the wein tobe opened, at the bend of the arm - it is hied by a running knot on the outfield examining the state of the arterythe lancel is held between the linger of thumb. leaving vare about here's an inch of the excremity- the lung converts him

seats himself before the patient - The Commends the preserving the median Basilie- because over it the cuten cons nerves are smelless otheshin is thinner- we only avoid thatball of it under which the arrens is fell to run- the rain then is secured by the thumb of the left hand - then let the Jungeon push his honces gradually forbards. not alkning in its points making as week- aber alarge enough crifice has ween merete. The lancet is to be with I remon, the less thumb lifted able blood allowed toflow - Let the high here he laken off evory-except where me want to menue frintness-after the operation a proper compress oban dage is applied - The arm beneved whom the Lahens Breat In ohening the Jugulan- the Lurgion at Phys his Mumb below the part to he o soned. I an afsistent makes arini les prefame on the other-donor with draw the band. it you mis the ween toater a me guild Intich bound the arm sound me arm accoor in the figure of Eitht.

Dad sympsomo anzing after weno seehen proceed either from apune two of the culcineous nerves or the admission of eir into therefree Luch accidents were treated of in aformer part of this lourse arteriotomy- Eriffifteetus knew of this cheration: itwas familien to galen - owas also practifed by belens- who rays. Trans puram in arterias dangunem febrem fieri- the artery usually is the Temporal its situation is feet by the finger - asmale spear pointed lancet is preferable to alonge broad shouldered one - and perham it would be an improvement both in this I'm venosection to have the shoulders of thelances that tilk near ils point - the incusion required may the be perpass nearly heily an inch when the artery pour out its blood levelily- prefrue of the finger above the coffice makes it bleed more feely - If the compress &B andage do not stop the veeding - I Butters Four riquel maybe used - tothere this suce to be. mellectrial the arren is cut acro fo vum veachellus altigit fegu

Enlocal affects the application of the Searificator may have equally good offects - Where agrees on encidently drops down apoplectic the Temporal thiley may be observed but I'monro thinks it ought not to become ageneral oper ation - No princent practitioner will think of opening the Carotid artery -

Treatment opwounded arteries He discover that the blood comes pomy artery try Jenowing that when it is open wondered. The Wood when the arm is alrest flows out per sollin - it is of more flo and red them the venous blood dwhen Inefine is made velow the orifice the theding from the artery is increased where as if the ven only is wounded this effectually stohethe flow-where the wound in the refrel that this the integriments are not directly ophored wone another - the effused blood ne cepanly forms ahumor- which wery prequently is circum served - the point of the lancet in benosecher pertung The apaneurosis & punctures the cutery The blood is confined by this aponeurous

Aponeurosis the suncture heing emaile son the anterior part of the artery the blovd forms actroums culed himson In one case operated upon by the Late Whereform whe kospilar here the punchue bad been mede in the buck, parte the arreny - aneurismal ba rix first deserved by William Sun ter. The puncture milis Rose papes through the vein into the artery-offe bem choring on the fore part - acommun Wation between these repels is left the verns are consequently much disten ded - a Thrombus is formed nom y opening in the reguments and that in the vein donot correspond - owhere the vein is cheifly opened withe back part- The Ligatine ought instantly love removed - & blood drawn fre Cefrany from avein in the other arm 1. It has been prohowed sinsome for ins lances put in execution their the wound in thearreng be closed by prefune using an instrument that makes hrefune on a particular sport 2. that the wound be brought into onew Du perce of again applied to Mewound

applied whewound some are a compress & Bandage . M Lambert of hewealle employed the Livistee Su ture, he passed one pin thro the side, of the wound & a thread housed round it- Terriers in fact use a similar me thodd to stop the bleeding as the jugar larreen in Horses- this meshod is make phravle where the array is small sil would obliterale almost its courty-Theusual mode of heatment is My applying aligature above danother below the tumor - in the aneurs made varie the cresease soon becomes that onary othere is no need of an operation aterner times it meines rapid pro gress proves the course ofvery great uneasines so their the Pariene him Relphas solverled the sheature I has, heen proposed that as the artery & ween where althe place of Communi Cation the Mood may be intercepted my hachue, or the vein meny he ned above delow the communica how instead of the arreny - beforeamy

The hild-orpresence to the particular spot-

It Ture arreniem is eace to happen when the Coals of the artery are equa bly dilected - when the delatation is unequal dis termed Mix anen nom-3h Jalse aneurism is where the energ is wounded the see contain ing the Hovel is not formed lighte evals of the array - and 4 - thevan core aneurom hephens when the beens of the limb are delated incon sequence of a communication he hoven the artery and ver - Except whe last case the method of heat ment is much the same - that is the part is intercepted by higaline. Before the unentron of the towns guet, above a century ago, the artery wers brought into news, hydifier tion, balgature tred above delors the himor, enflering it to remainflut line the mounton of the Journaguet Lusgeons grown bolever open the Luc remove the cloated blood-slawhen the winiquel & he who the refret from which the blood Shrings - In Poblice load anewism in the Shines hers histored

proposed the lying theartery at the uner side of the high-amethod ma honed by Paulus longago- Where bowever the himor is small notlen gerthem ahens egg anum her of an level branches meny hexauca lyby ing the asfall above dushere this preu heavle welow the humor - but where Mis large we imitale M. John Him ress method - where the Bones are renetered Carrows, instead of thinking of heatmes, we can face the Por hereto life by ambutation only how thirds of the subjects of such perestions recover - where the anen nam is high wh in the limb. the Operation for answerm may Lake the Patient - the aventation being car ned on by the anas tomorny refrels Oherahon aneursmal the hend The arm eg- Just the Tourni guel is applied, the cushion very put whon the humeral artery at

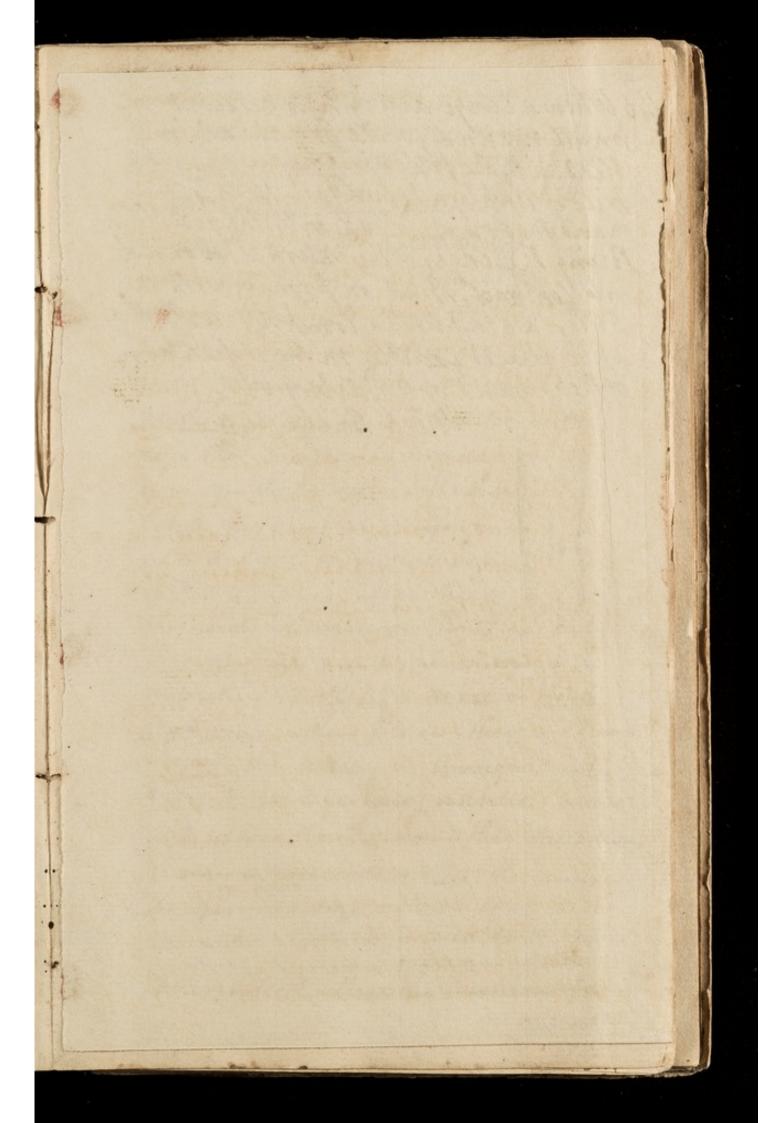
The inside of the arm sons toston

then wish a common Leagsel we

entirely the pulsation althe wrist,

make a free incession over the hi mor. avording as much as popule the veins- some of them are necessarily orivided - first the shin & cellular sit Plance are diviced other the aponen vous of the Breeks muscle appears under it the deep realed being are found veno arterio humeralis commites Les Tallites generally hos in number when the sac, then, is trought into ver a punchue is made into it with a common lancel. The saw is completely chareced from wh to bottom - the Cleated blood is rem oved- the Lourniquet lovened the blood makes through the super wrongue of the order y. the Rugeon fixes his eye upon the shot- the fourniquel is again himsed. Then The lurgeon innocuces a blunde probe crooked as the end the lemos thearm to relax the array into the orifice to raise the arrang - therwith a Common round blind needle der of an inch above & as much

for below the infersor or fire - theshe Tournquet is again slewhence to besine their the ligarines are July applied and first the superior ligh here is simply level by asingle knot including the arrent - iftelood Hows from the inferior orifice we are morelly certain our operation with succeed the interior ligarine ought to be hed in the same way the fourniquel is elewhened but allowed to remain in its place the wound made is whe accurate by closed - two aword marking ho much preform whom the veins -Poplitual aneurism. The cushion Whe surrigued is applied to the hollow in the inner orde of the High the artery harpes within the Sarter us muscles hims round when Porales the adeluctor maximus. 6 mehes ma modèle swed personabove the joint - loseme the lateral . beinehes the operation is done alittle ion-perhaps of three inches is made



111 ah 146 When a large artery hus received small wound, as the Grachial in Cess Heeding, the following plan may be ne Trud. Topply a lount quet 10 as to com-Au mand the flow of blood into the vefel. ofs Bring the edges of the celernal wound 12. into Contract. Bind on fromly with a the toller a grad waho compreh with the ler aper placed exactly in the thaton 12. of the wound of the artery & w nich Sneye. Ingery Zi a, lu ne on 82 in de he 116 Cer Mu n 11 of au

made knough the skin withe clive hon of the artery - the situation of is we examine by the feel-the artery is land bene to the dis lance of an inch and en rounded by one ligature whom it asingle know is to be drawn and the wound aftern ares accur enely closed - In the dam the open ation is just aprice of simpole cufree hon the incision is made hemeen the conceyles of the thigh bone- making an encepron in a dubyect of micrelle size of 3 or 4 mehes - after the le guments & linelinous livres are cut through we are to be canhous in avorching the Scredie nerve & Popli look vein in this place - there are drawn aside - the arreny is brought into view- Me ligertimes applied above and below the pumor - this operation is only applicable where the humon is ofsmall size where it is not disco Coursed - the limb not wasted-above ofelow agree the bones ence perhorn caries Sourniquel - first the custion of a moderale

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hardness is applied over the array formerly a commet of ceather was puton above this a perce of tape currounds all & hymnocuring aperce of such under this shouling a compression is made - This Tour mquel was imbroked by thoughto tite - a screw schareces two places of Books - the agame is highlened us thou the necessity of the Continued hvisting of an apistant Planer Constructed asimilar instrument of wood-forheatness sahe-Usedin armied - The Instrument altresent in use - perhaps the invention of the brane - Il works horceas quick-A lakes up the tape dowle

Secture - 1/4

Amputation - the arrever of the limb

mp hered by accident or como

ded by wheers - this myrry may os

render ampulation necessary - Lor

merly in lompo. Fractures - ampula

hon was sug performed - Mhooch

has shewn that the projecting portions

of the bones may be sul of of them redu

ad Inve lately Mol has shewn the

147 ampulation of the Migh, the sound teg Thould be hed to the Table . - - - The limb The be cut off as near the knu as possible. The femoral artery should be drawn only by means of a pair of forceps & hed upon with ; other large artives should also be Setweet without including any of the Joffs party. maller branches mult be taken We with the senaculum. Thewound should be thoroughly cleaned from all coagulated blood, by means of a doft spronge of water 4 one ind of each ligature removed. Or In ampulating heleg, thebones should be I awn through about four inches below the patella. The loungest is applied in helower part of the thigh be In amfullahighe fish or forearm weith preserve as great a length of the limb as the case will allow ampulation of the shoulder joint. an in arion should be carried through the think dellies muscle down whe bone pom the pont of the joint, a little below the clavide. obliquely downwards of outwards. The Del. his hould then be humis wh to as hex hose the head of the some, which must be honght intuly into view by dividing The inticular ligament all lound. Ins

cut of an ampulating knife will then I separate the Climb. The axellary This repet must be firm by com med intely this. Infect of the of the cla brille I whing the whole of the of Eraha. nicholson's Encyclopeora. L. Langers)

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very great advantage that may bede moved by the released orheneredpor med the limb - Where the Soint = is deseased & corrocled ampulation was orlways performed especially wh the large winto mere thus affected of lake Their heen proposed sevenpul in practice to remove thedeseased Sound achogether - the Knee jointwers cut out with success in this way hyeter · with stocked - but in Another anse the Cornent sunt under the great cuschange - & mono thinks this opera honless adviseable in the desensed knee youl them in others - where morty cation has come on , means never to operateonuntie this how should When little remains but merely di vieling the bone - In Sun shot wounds shallering the larger joints ampulation is necessary - we can only sente otherwise anseles dois loved limb. Imust love In the attempt anumber of lives which might otherwise have been served Nio an advantage in the upher extre miles to sauce as much of the humerus as nee can - Swhen the hand is deseased

the meta carpal or carpal bones where the Jungers are descared they maybe taken of at the corpus, which will enjoy shee the rotatory motion-There the foot is descared-the lungeon may ampulate al balf way between the joint of the lines toole - or below the knee the headh of the Patients hand. in the former care the metron of three is preserved of the strong breaghe put unto I filled with an artificial footin the other the motion as the form is destroyed til hecomes slift the slump the knu risling on the artificial legiter open is hencled backwards - The latter open other is preserve when theperson does not much show appearances projulion sie livelyhoud hylabour by along abed - Iwo principalapis · lands are recess? one to pull up the Hesh when the bone is Yoke award, The other holds the limb from askind manages the Tournquel- The Sur geon when the leg is toke ampules Hed that he may apply the sear to the word of bula as the same time places homself between the patients frist

149 The fingers & local should be re moved at their joints. Make a circular incision through the skin, about one third of an unch below the arlien tahon. draw the integuments up, & cut through one lateral liga ment of the joint, which you can then distocate. The remaining Con rections are easily divised. Bring the skin to gether over the end of the first joint make two cuts one at the back of the other to wards the front; these must meet when the bone is removed It is sometimes necessary to he thearteries. nicholson Encyclopedra art: Turgery.

u & viter on de Sport ly la Ke Mu ge nec Me ple

but when the high is love ampula Hed he plenes himself on the order side of the hahigh he should always standon the outside when any part of the arm Induments - the Journiquel allo cushion to be applied upon the principal ar leng of the limb - In the arm it is but upon me arreny as me unde of the breeks Heror bubili - When the thigh is to be am pulated - it is pleased what hollowhe Tween the Santorius & adductores Mus cles- and when the operation is to be done below the knee the cushion is put between the conetyles of the Jenus We are endebted to bheselden for his improvement by the dowle incifoion-If the lurgeon were to cutationee to the Bone the skin retracting would leave the slimp py ramedal & the bone ed- The Shin is therefore to be cut below the part were themselsion is To be made in the muscles ben such a manner that the shin may cover The face of the shimp eg when the member measured one foot round

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drameter is four inches. Therefore we onepMe leave the skin hounches over The stremp - the first incision is made by a large straight ampulating knife- perpendicularly-Mrough The regiments. The incioron through the musiles ought tobe perfecuelan & direct- notoligging outhe mus iles as M alanson directs-The scra ping of the periosteum improper because it causes afterexpolliations Metalline Pretractors are employed to pull back the muscles when the bone is dividing by the Sow- the in ventien of & meno- de mesero de Sharps Saw- In ampulation below. the Enee. The Souringnel is applied between the barn swings - the afris land pull up the Integumento- with the eye The lungeon directo his incipion he incifo won to preserve some of the Hear behind ought to pass down Jake who he cellular ento Stance along worth the church is oblique incision slanding upward; land

backwards tenphorted then with one and of the amountaring house the muscles are divided. ma slanding direction to the Bone - the merof econo ligament is divided by the Certaline. The Surgeon standing between the legs of the Parient by the Saw both tibia and fibrila are di vided the same une Bo low the knee the eranger incurred is less- especially in women where The parts are micher-ble some the flescor muscles which then become musices of the High - the Patienthas a nione secure rest amere is les chance ofulceration - Mere is Cefs chance Awarding of the himb - therefore the sperahon below the knee is prejerfalle. - after the incifs con through the mus cles. I is ofreal advantage to separate the muscles from the Bone by the Occapiel - then the Retractors are ap phear. Inow the saw is used - That the matter mery he treely discharged the Thin is to be trought together perpendien larly me may mus more casely get

get at the blood vefsels in case of ac actent - Tenaculum is passed thro the sides of the arrent of noone of The ligarine passed over it I hear by a single knot, sometimes it is necess who he wein- due exclude the acrive-In taking out the bone from the Ach or shoulder joint - in the first care The bourniques is tobe posse applied to the arreing over the or Purisher is tothe lied withe first place-When the Humerus is tothe taken out way an aprislant The artery is to be compressedupon the first sib above the clawicle and a lourniquel may hensed puthis pur pose- The hist incipions are made lo include a considerable portrond the Dellord muscled. first by cutting perpendicularly on the forepart down a similar from behind beginning from the acromion process- the Dellard muscle is dissected upivardo- Metah melar ligament would noto & the bone separated or curolo carted - Lifthe bead

the bone only is deseased me may sawed off Isauce the limb or where we are wremove the limbentie by- let the befree he divided in Melast place - they are then to he Taken up by the tenaculum- after wards the muscles free up the Bollow Hesh wheres reachly to the Cartilage - Mewound is tobe accu rately closed - In the Flat ohera hon when the thigh a double edged Knife is pushed through the thigh allhe side of the thigh Bone on each ade laterally. W. Beec her pro bored abeller method of making the flap from before & behindthe can take of an Exosteres firsthed it may not come in the way of then Cut out the bone alone from which of grows others sauce the limb - this operation is prequently necessary in the hand or foot where the metas carpal or metalersol bones have become deseased - after the bone is cut out the partiace brought as Closely logether as hofswife to conceae the

## Lecture 115

On Banelages and Defrings-In simple wounds Pledges are applied locachiele Mecalemene air afterine lipsof Meround bene her accuracely broght logether where there is no particular as mmonyof the fluids adiscence the sys tum asimple outment of war dorl spread then upon their hie is usacely of Pheer to sores but when the flueds are descraced as in the Lepia Grownin-The mig! bilin. has good effect mother cases some office metals are used with advantage - a Poullice is sewed up in alag one side is made offlannel The other dinner siete of fine muslin organie - Lendo ofvanous hiners are used to promore actischarge from any abscels - or fishelvers sore where this is thought orecesoary- sponge tent - A. Plafeter composed of hum ammoniae with vinegar of Squille. I mono has found useful marscriping the ewelling in the case of dronay in the true foint Adresine Strans are used to aring together the lips of asimple incided roomed

wounds- these Playsters maybe as phedairofo oroneither sieregihe wound & heartogether by heartines a Simple Bandage is when the himen a Hannel is rolled up in one price - alompound Bandege When how or more peices are united orheur melal orwood intheir lem position - - asingle beaded not les is the most simple-omostease by applied - dought love bound ap highty sequatry - in applying it the sead is kept lowerers theoutside from the arm- it maybe applied ma circular or serpentine form when we wish tomake prefune we make ahim or wish- keeping such ahnot of the principal us ods of alimb-in laking of the Ban dage - he bead of the voller is hepl Now well the limb - dis Mus laken more early when For the olevel-The Principal Berndage is the Course chef

chef it is onerely a folded nappin applied over the foreheard - itis hought over the chin- after is left out which is folded back over he forehead it is gamered logether spinned liehund or anandercheif jolded alils comers is applied - theeness are brought over the forehead openned -Galeno six louled Bandage - The middle of it is applied to the brown of the nead - the two tails wehind Shefore Spinned over ceuch other & then the lateral ones are trought over The chin. This makes a secure & lighter Bandage Man the fermer - The commen men each worn by thoman serves were the purposes of returning drepunger pon the heard - as after the operation of hepan de lat s Bandage con sistepa donote beaded weller- ils hose applied round the nead over the one brows - one of the Jails reversed stronghe over the midelle of mehead ween the secured by the other going some anulardy & the former maybe reflected screento

to make prefune upon apart cular part 150 Where we mean tomake prefune on the temporal artery after arteriotomy first a compres is applice once the artery then weathly the middle of a double becieved roller to the nape of the neck- it is trought up one the ears. The one end is hirned within the other to as to form a kind of had lythis Bandage we may make mefance on any part of the face or of men beconverted into the facies Modora of Heisler - The unding Bon dage is formed by making ashi in the middle of adouble beadled roller - paping the head of the one end of the Bandage Mough theether ophosite the wound to bringers edges logemer- such Bandage is not to helmsted to unlases of olene Lip-The Monoculus- is a Bandage applied in asperal form over the eye haping behind the deales such Bandages are were wheapphed & ahund Kenhey folded capplica to the eye

1. 150 threel behind one me head is better. In exercitions upon the longue aboug fixedlo a wire-beneled & fixedover The thin meny serve to fix it - & at the same hime defended from the Salva Whandage made broad in the middle Theway holes and there for theeyes hore and mouth - to this three lands proceed from cent side the middle one is punned behind thehead or Melowest to hederer the church topse washe when part of the seed any soft ontment maybe thus employed Tosoper hepristles opievent pelling on the Confluent smelle Pox-Where the Enjerier Low Bone istractured The Boundage termed asking & Monn has found tobe the less application Inhor cases he first disuled hor poures of costs towered with linner No he put within the seeth on each sich of the faw- leaving aspece in me Jundole for a spoon- welled passebord was applied over the free his - I greethe Hairis of the gow

Sow the middle of the soller has a 168 email perforation which is filled to the chin- then the levels are car need over the heard & down wards again whom the paid - mooth cares the heard was Complete-Othe party union smooth seven -

For the SountsaBandage may be applied once the shoulder turned under the arm pil- and curried tothe chrosile side. sous to form the figure of 8 on the Buest, Back, or top of the Shoulder as the newture of the case requires, this done with edgings is Vermed Spica - Prefame may be made whom the top of the choulder by using a double seadle & roller baying it mind the ched - then him ing one of the rollers over the shoulder The con-fix the other- shiring it gound we can repeat the prepure or increase it - such a Dandage may be employed in the fractured clevice -

To the abdomen me same bandages apply-abount 161 Tourniquel maybe employed to me vent bemorrhage roin an aneny Springen in the Permoun-- A Scapneary Bandage Consesto of a sorvace piece of cloth covering the Breast Junier Wehind-this is supported by straps pulouer the shoulders - & fixed at born encis to Metormer - Mis Banetage is used in Cases where the mennina hero been excluspated . but we ought to he Canhous in making prefine-flought to be moderate - abroad flannel Bandaage meryluned lomake moderale prepure in cases office hued vibs- swhere the mis preper muardo distending the stomach hy food or drink- only prefuse upon the abotomen by abandage - may some some effect in preping Northwards but in gent little accention loban deigning in cases of this kind is needed The I Bandage is used to apply drefrings to the parts about the anns as a sus pensory B-for the derohim

It is used with actuantage in fis 162 the ba ani - after the operation of Lithstomy- whished of the penn oum-after Cerchahon - or Hyoro ale- It maybe applied to keep on drefrings on Buboes no the From A suspensory Bandage is week losupport the Scrotum - where the Lestiles are affected - apure made of Hennel is used wouthout the humor in Scrotal Ferrica It is ter meet all ag - Info -After beno section - the lips of the wound are brought accurately logether he Patient benets his arm - a small Compres of tolded annen is put above the orifice - the asimple bun dage is app hed forming the figure of 8. Upuned instead of forming a knot a common gaver answers heel For confining the Bowclo in Hernies en Prolepsus Meri a circulen pefrang answers heat - where the anno mo hudes the instrument described by We booch answers completely to pur

purpose - a circular skel bell con crestroith lecition is applied over the ossa Elei- from behina aben ded shring-piece of the same pro jecto having aparel fixed whe end of it which is applied to the anno after the Rechin is reduced - Oben dages of assimilar nature butch land form are used to heep up hebowels in ceres of ingrunal herica The cushion is best merele of cosh her hers of those or wood covered by leather - lirenlar plaister beging with a small one of increasing the

ow Luxations-

In the complete livation of the larger bone, the capsular hearments like others want ting elevations are almost always torn the bone cannot be completely disloeged from its sochet without such lecero i him in the kip joint actore the kead

evze of mem - ampling them warm

so as to ferm a cone- with a large

plenster over all-hus answered

The purpose of beening in the bow

cho we cases of umbilical sterman

The bone loger enrothe foremen theyr ordown without a laceration of the round ligement - Meproje elniged he bone hers been forced out see do etriction withe replacing of the lone besides the muscles acting contrary to Thewell of Mepatient prove obstacles 10 the reduction- dwhere the bone hew keen long diologica the muches are shortend The lavely in some meeisure files up so that the replacing it in most cases becomes impossible - The Sur ahen of the kumenio happens most pegs from the great degree of mohim allowed at that joint - from the va ruly of a cridents - falls beeto which it is exposed aperson naturally moved out the arm toprotect himself when hefalls - spom he length oflever the apm afforers it is reachly luxaled at The shoulder joint-The are first to encleavour lo gamer information about the pourson of the arm when the accident bubbened from this we learn The part the Consular lyamentro sup

supprised at which opening we alterful to replace the head of the bone- The Hone forming the courty of the joint the Scapula is much the fixed point and the las is love applied to the bone displaced - whis case the humerusand at the wriet because by this other joints are unnecessarily with injured previous to allemphing the reduction The muscles are to be relaxed - Wheir upon he nech upon hebone. In Be cent cases - The Carrent is plened on a shool fixed whe growing one assist Jexed the scaper low with his hands. & keeps himself sleady by applying nis foot against the stool- another of cistant extends the humerus- & pushes against the shool on the opposite fide The Surgeons observes theeffect of the traction - allemplo first to dis enage The seed of the bone & lower who its natural silvation - 4 the head of the bone is loged under the person al musile we are to saise the bone to anghi line som he body - so that the

Sochel after heing bixaled for Six weeks the Pahent is leviel on the sound side on abed up on the flow z- the lac the cophied & as trongrope gived to their gathers of then we thrown over a pully fixed into bearn in the roof ahnor made upon the Rope - pulling it olown the pahent is a little reused of the Patient after sweet shocks of this hind had the bone reduced. When the deed of the bone reduced. When the deed of the bone is pleased in the axilla. The patient is pleased in the axilla. The patient is laid more on his beach.

In the luxation at the wrist we drewe a want of motion a prominent band ewcling at the one side witha Corresponding bollow of the other

The thigh bone is most prequently luxuled forwards or hund or high abheers lengthened the acetawilum feels emply - & the head of the bone is felt lodged withe domanen Thyroi down when its choplacest backwards the Many is choplaced backwards the Many when is choplaced backwards the Many extension is love been ded to arrest line with the body

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Intro cases of hixation of the legal the friend. The cine was complete-the legivers kept heneled dreduced in thy way - Theone case was healed higher Meaneter trood-the other by I ander con of Leith-

on Fractures - 117

tractures are dureted into simple. compound .. and complicated . in the former the bone is merely broke whe second the covering oflare also lacerated - when such an accelent happens the limb as the plene injurced is swelled oftends toreled - one party the bone yelless upon pressure by the bence the la hent feels great pain-offe bones are fell to grate on each other the origin to put the vones into their natural signation witheful please when metrechere is recent when when the accessed her been I some standing. "The parts are much swollen- The parient is tobe thooled freely- leaches are often madmissible

168 madnif ide-owhen the interior & hemilies are who purgatives are emproper - wommen time orighted tobe lost in such practices expecially myoung subjects where the parts are gruply ghied together sother reduce hon becomes impracheavle-when The accident has happened aleids lame pour some he is totalvelged whe neavest borne - bysul in theil Mation mother hers to remain W. Por hers very great meritude reduce the allention of surgeons to the shelying of the paroper posture of the houb. ingeneral the muscles are to be relaxed - their action upon the parts must be carefully assenced to- there is no necessity for untyring the Bandages often to examine the dale of the limb-others is away hom what objection who use of the roller Disculient applications - Pleusters & Compresses prove unnecessary thus Pul embarrapments- Splints made whengline enters into the commontion

Composition of the Pasteboard is renewered agreed deal thinner- whale bone covered with leather - others are merete of thin wood holeweer out or of lin - Those of Pasteboard are pre ferred Il when moistened sankled whe limb lakes on its Shake exactly I when the the water is waporated it becomes sufficiently firm - The Iphnil employed is advised by W. P.M. not only to take in the freutired part buthe whole of the bone she joint above sall - now this the old me thod of applying very emade splints covering only the packned part are in opposite extremes - The confine ment of the limb weenes she Pallent heavenful motion to obtain relent I desorders the situation of the bones when a bone is broken let the splint be made lower the whole ofil la lung the measure from the sound limb - The sunho formerly used are of 10 whilly and therefore are selavido Dandages - in such course one west

are best made of Hannel- The Eight leen leuled Beindoige was formerly much employed - It is formed by applying loone another three ely Perent etraps hewing six leulo each three on each side - the limb is ah pliced upon the middle ofil and the wels are feleled over each other alternately beginning homewore a helow - she Bandeige not long ago mentioned by a writer as an amprove ment made in an bospital in the meropoles offis Island was pain ber by Scribteties ahundred offy years ago- The splinds covered with linner are applied next the limb- Soverthis the Compound Bandage &12 Leils may be sufficient-

There or humeri is broken. The Patient ought to he sealed leaning alule to the fracture of the he weight of the limb marele some extention further one assistant lays hold of the bone a bone the practure - another afrest seal coon a low stool takes hold of the infu wor part & makes extens ion. The Suir

the lungion encleavours to replace The bones sapply the freuturedesc hemilies loone another hefixes then in this situation with one hand Iwim he other he fixes on the splints moistened with water or binegar in doing this heis loavord placing them on any sharp redge of bone - or so as to compress the principal weins in theo case how aplints are sufficient in the arm one is applied before & a nother behind - after this I monso advises the application of a Hunnel roller which he thinks preferable to the compound Bandage - when it is necessary to remove the roller on and Jus growing after wo high or two lax meonseg of the ewelling a detu mything office arm - the spints are to he supported by an ap is land pulling Repatient in theformer situation unde anew holler we put on - the arm Should be kept beneted - da common Servielle fixed by two of its ands over the opnowle shouldedby tolding up the end below whe tom

Common manner doas lotonn en ching t makes avery convenient but I boil for the arm - when the bone, Me forearm are broken - the arms whe held in thebended posume himing the hand lowards the breast The panent the lingers are to be henced morecally this born the they or d'extensor muscles are relaxeet as much as is hofs whe- theraumsa ulna are in this situation madelo crop one another - the patient finds more releif from this posture where one of The bones is broken after the applica how of the splints the socion arrives a roller but when from one broken The Twelve Touled Bandage unsed The Splints should extend so far as to take in the whole of the vones of the forearm covering the wristbut not covering entirely the fingers moving them can do no harm-ou relieves the Patient- headvises the use of the care inventes by M. Park Thwespool-made jo as to extend some

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Fracture of the Temur-The High ought fine whe wended then the wargh ought whe levier upon the ontoicle as advised by M. Poll- bythis means the bone is help from seenling from the cituation in which it is set we apply two large splints each long enough to cover the whole thigh the outerm ost obsetching from the great to chanter to the knee using the 18t. Band. Fracture in the Bones of the deg-Iwo aplints are used long enough at least to cover both bones spassing the Inee joint, above the once below-boles are cut in the splints for the malle oti of monro advises anomer to he made to admit the head of the fr bula which projects considerably Compound Facture dangerous on account of the admission of the cir. Hue fore this is tobe kept in verw- where is Bones projecto - les us first relay the muscles arenth the reduction- pro vaily it may be necessary to all onen af art of the Ohin - when there fail a borhon

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The projecting energible Bones must be sawn off. Ion account oblight of this necessary wheen the limber leneted by mechanical means to heep the leg of the natural length & allow the intermediate space to fier up- but instead of extension and combersarion we must in most cases that to the effect of posture.

Lecture-118

En one menanemon Mejsalecea herer heenenviered intonearly hovegnes pents. The parts united alle conner ling subleme was not ofseens by hgaments. carhlaginous - in chib foot the contention takes place pun asserly assnal part where the os her viculene rolls upon the astragulus and not as the antile joint - Il rarely happens their Factures bones menor united by ofseons maner butwhere they are either nor connec led or are joined hyerblexible mailer we men as celous directed invale againse couch other - preventing then

long

flemonty elue supported whole of Memones les hers progsoned cultury out such connectures meuter near ing the case as one queunt peu hue afternance.

Where the Clewrile is broken where little care is latien-after the cure abump remains from the ends ofthe bone herbing paper cent other- The rachired Bones are reduced by an afsistent drewing beach the thoulders - after this Three perces of moistenest passe board are apphed above - thenext below I'me there have desertly over the fractured - a ceron lar is passed sound the body un der the arm pil - draps of collerare allashed tothis & centreel over The passeboard splints then fixed he hind- the shoulders are tobe hell backwarels the arm hept in its place by proper Bandages in one case where the acrommon pro cess was broken the anne wers fusick tended - then a splint o morsiened was

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applicatione Inceps about mepachie I hept applied by a roller begun from above - a large splint was applied ouer the whole arm on the forepart Whevent flexion- hearn was him by the side - a line was effected -Frachme of the Patella - the Lomb is extend - a compres covered with Hannel swelled is applied above the upher most- another below the unetermou of the tractured bone to Huch soft commels dejences the ham - these are fixed by a roller-The compeloes meny he brought nearer logether inecessary by ah broathing the cness of two longthe dural simps of cloth which have heen placed wing uncurally under The compresses - these are gixed lypsins O- Leisler - Moramper on Francisco of the palella - Imomo recommends a more compound instrument than Sleisters-with etrans Stuckler-blan Inseation of the Patella - Muliarus worstwhen it is displened outwards the legis brought to aright line with

High one body reuseer wan angle of 45. the Surgeon then places himself between the patients legs- heprepio The bones ontwards to disengue of parella from the outer condyle. Then is brought inwends boto Line how and as it is aft to start out again Mis necessary to fix it - Mis is head done by applying a hinely Compreher made of then iron concerell on the inside with sluffed leasther toothe siele from which the Paleller her heen removed- this mohumentro Kept applied by as trate proceeding from one siete of the compreso- dis applied in a circular direction sound The limb is is perforated hysmace holes. which apply w smeles on the outness of the most this method her succeed very completely where the lenelon of the reches muscle is lace aled- theleg is tobe extended the body raised - the extensor muscles are bought downwards by asper al roller - the pallela

172 178

The hatelea is brought upwarets by thraps coming from a cinte and he where asplinh is annued be hind the lines joint Mis meshod hey also encessed -

Le ceration of the Tenow acchiles. This happens by a endoen effort offhe Musely most pequesilly the laceration is in Complete- The cure Consists in bring the lescerated ends of the teneron logether for Mus purpose the segis bent as in Por advises in fracture to relay The Jastrocnemii. a curular roller is applied to the ham aslipher ohen allhe loes is ful on from the keel of this a strup extends this fixed to a buchle in the where comear- a blace of lin-appheel to the inherp! of the fool - another whe fore pare of the leg- having apere of the same metal. Conneiling them - prevents the Indden motion of the parts from slaving owing seep-Burvalue of the Spino- me enclear our

Publing in of oil - nothing but the head can penetrate so deep as the muscles. Thise means are tryono means so ef fectual as moderate me of the limb provoled a cives not que pain - briction or by the use of machinery the Limb mery he extended gradually energy ay acertain degree.

Aller ampulation - in the High - a armlar hers been put rounce the pelvis - previous whe cheration - esaps hang from this over the thigh - ablethe blooduepels are secured - me begunly applying a Hennel roller from the where part of the Hight with edging I moderate handness- lobinna doron the flesh. its is princed down before me come whe sump- next let the Then omms cles headerfled weachother & the shin in aperhencular manner banging out the heatures behind - ad herice straho was summoment to fix the parto are applied derofred over theend of the wound- over this acommete of low

low is applied over this a covering of Hennel buted with lails there go up whon the Hugh save fixed lighte wenter roller it may comelines be needs any to pun down the limb by the lied - landie sponge again Compresses are never love employed where he nepols cen he taken who hythe tenaculum-or the needle in chicking party the Hesh- when shonge hust be used dought to be removed centy before I be filled by granulations after the sponge is put on a common lournquet is put over it the shahr are fixed by a arailar on the High and now it is place that by luming the handle, me sponge is hiefsel downwards-upon me bleeding

Surgical operation in the ane of the drocephalus Externus

refsels.

If when the desease leegan it was not assended with acute pain, and the other common symptoms; and if from

17.17 182

from overy evreuent Knowahon of the wester, chiefly at the Bregma, it is supposed, that the water is situa led immediately wishen the Dura Maler, between it and the surfaces of the Brain, Cerebellum and Spi nal marrow: me ought to pune here the oura Mater; as this can he done without danger, may give immediate releif, and may have some chance of moducing a ane. The Dura Marenonghi to be punctured cautionsly with a Lancet, at the side of the Breg ma, or as for as possible from the Superior Longsmolinal de mis- Monro on the Brain 68 p.

The host class fernimals compre

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hings are large- the secure clouble manning are found in the bensale the organs of generation in either lex have a resemblance. Metail 182 from avery evident Huchahon of the wester, chiefly at the Bregma, it is supposed, that the water is situa led immediately wishin the Dura Maler, between it and the surfaces of the Brain, Cerebellum and Spi hal marrow: me ought to hune here the sum Master as this can he i in von

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Comparative anatomy-The host class fernimals compre hends man the terrestrial animals lowhul Linnous has added The where like-hetermo this class main maha - The Second class includes Birds - The Third amphibia Which animals however can only remeun arestain time unever wa ter- The Fourth class comprehends the Fishes with the former exclusion Livo classes remain- Mormo- In secto - These clapes are again sub ouvreled in orders genera. Species braneties-Mammalia - an Me Vorhus. The smellest of the whale have the hings are large - the seems downte manno are found in the sensale The organs of generation in either

lex have a resembleme. Metail

lare instead of heing perpendentar is honzontalin the whale theil Il mery seuse uself to the eurfale from the deep wellers In the elejahent the beeth succeed one another in progression anew one pushing out the one which hers ween worn its ontofen serves theplened incifores inlaying hold of leaves - Sheep bane no inciseres on the when jaw- The Merse has Six incisores with culture edgesinthe fero these been are pointed the hisho termed canni are equally remarker ble in the Cal as in the dog tribe - amongs me amphibio the Fortoise - org. Lizzard oferpent are ranked-

In the grad repect the words is awar ting- from the how zontal is or thou of grad repeat there is no necessity sorouch a monitor. Me food counter orth into the throat ostings. In the Rummantanimae the musical ear

Immsender coal of the Osophagus is furnished with advouble lever of ob home fives croping one another they all in opposition.

onohening the avelomen of the dog meomentum is found reculring to Thepelvis - wherears in man it gues notanther man the umbilions - This hrones their men ought love whe cred posture, and that affind disties constantly from the omentum - The Theen of thes animal is dark whom ed oblong much connected to the Comeulum - Islom ach -Opleen of the low anumber of knots are fett the Human Spleen bels uni form - In the dog the line is other dedinto agreal number of Loves. That My may shele casely oneach Mer in is safed motions - the gare thereter is sealed between two of these loves Mebyplin ohepatic duels join there low there are no beparo cystic dute Bones are found in its from ach wident pyloms is very straight brontracted on the inner siete of the Somewh as minutes of nigo develored Conner bender are forend the Stomewh is thinker than memo - Its interlines thuker stronger more red - shorter - them his - In the gradniped the investment of policies the follicles. The long and is furnished with follicles. The food is admitted onto it to undergo come change in them the value of the color is circular and performs its function left exactly then in man-

In the lact. The first stomewh the ingluvies a receptence is large vis substituted into several sens- itis substituted on the left side - a lefter seceptante is found on the night side with celes on its inside resembling aboney comb. a grunn leads from the first stomach along the second into a third the smallest it is substituted into immunerable plyo- from which papilla project the

the manny plys agrun is contin ned from their into the forith down ach which is lenge dresembles much The human Stoment. It has wal vulo conniventes - the pyloms hers Too a greater resemblance tothertof man - The grafs hapes first into the first stomach. Then the and lays uself seemingly lovest but in ie ality to man du cale wheel heis teen laken in thoroughly- after this it is passed into the decord do on- the butter leading through the different Somacho. for the purpose of convey ing hand into any of the Stomachs the last does not ruminate and afterbaving fieled the first Stoment I may through aquantity when him gry into the fourth Stomach - Soliges hon was muchy afermentaline pro les one com ach would suffice -There is no air between the lungs and Pleura A dog does not encear altho me person along

is evidently carrying on in this and how. for can the want of sweeting he connected with the Ravies can hanci- acree humors level to the Restway organo topuer went - The Bladder in Mis animal is covered lomp Celely by the nermoun - h The day the passage this which the leves have assended from the abdo men remeuns open - a perce of Pal weres the chaning outing mepand avalue in granding against herris, - The dog hers no resiculo butthe ba la déferentia are somewhat enlar ged - hegland is long - the penis has a bull in its structure- the te men is conducted along the wether Knough a groove- their copulation is belions the animal is reterned in connected shirm averse explain my thereason of such structure-& further we conclude that from the Comelation being quick where were als are found there seally con Tain demen-

Birets - Slowho - Pico. anveres. hallo-as the heron- Gallini- Pafderes comphicheneling the smal. les birds - Buds are furnished with aleah instead of Lew bones Heeth - Mey do not manducale - they are conceed by feathers - Meholler of the quee contains air - he walking unless when pushed they use only The interior corremelies, butwhen pursued he anderales his mo hon my Herhing the air with his Mings - muscles of great buch & hweligious bella force are allewheel lothe Breast bone which is exten ded for this purpose agreed way down wards - all Bues are ours arous I & the metiment of the Johns grows In the egg without connection with the mother -

me roof of me mouth opening into

the none- and a similar think with muscular sieter leads whe trachen without any epiglottio- no heamens are persented who largery office voice is not formed here- they have an inferior mersullary gland with mer merous mucus onfices- the Oxohha gus is voide deads to as an placed upon the right cicle. This is the recep laile of the food the hop- it maybe Compared to the live stomach of the mammalia - mucus glando with onfices are found on its surpaire dis charge awhite fluid - aguin passes along his pouch- thro which fluid may bafo- aprove maybe passed through his mening behind the Treuben - refords of the heart & behind amen branous chappingm into a second stomach furnished with follicles on the inside from we awhite slime oney be prefied out from this we may perfor watherer Homenh which is very muscular.

which greun is found broken down 9 mixed with freed hard pepiles the order part of the Homent is con end by alongh membrane. Phny Calls this Stomach ventrantes Cal losus Carnos usque. unelle Mis another lovering is found above the musen for Stomach which is very thick and Strong - Presumour calculates that from experiment it is equal lo 437 pounes but recollecting est The same time their it hom make, The hiefune desistance in olalning thebylynder of son therefore wee must downte this calculation. The End Somach notonly servey as areastacle but the joud is changed in it - thearimal seems Whence a power not only of heefing fluctinto the Hurce Stom ach Mis the gullur - but also peobles - where alone the could beg use the grown is here ground by attrition. The stones acting as leeth - were there are don

10

anothered grown is given the animal umdanger of heing starued In The abdomen particularly in Birds of rapid flight the bowels are hed down by membranes in the graniverous foul the alimenty canal is long - The Spleen sends its How lothe Liver it has no chiel-h gue bluetder is former lodged in one of me loves of me Liver - one dud comes from the duer. the other home mech of the gue Blacketer They are not joined and enter se paralely into the dirodenum- when Cur is brown upw ands into the depa he and the gave Blerdown Abyolu chactare dis leneled by Bepalo bys his omeso. - an organ of awhite col our is placed along the mesencery of Mechroclenum - Mis is the pancie as . No and is observed entering medin odenim without difocction Vez Jungino enscorrered mis in Truspey a Century agos " the green unes line so

is short doneight it may be earled rechim - hom the intertinin rec him at its extremity two intestina Breca project barken ares into this the Poces raf back weres by inversed. In monro three years before to lew son arrended Lecrues here de monotrated lacients in helock the chyle in this animal is clear herefold owner admit coloured par treles - two lected duces convey the alment to the Enguler view - The heavis downle as in man- I the ught venincle sends the whole of its troud through the lungs which are firmly fixed down - The air hapes from them into the cavities of the bones - render ing the animal lighter Imore care by suspended in the air - the bones want marrow therefore Mis is nei ther necessary for the munment or longwing longmes whie bones. The France before to entrance into

12 thelungs wolaned - this is the gloris were there the voice so mo eniced - although the Toucher above has been cut across- Bues Per Thise - the hence a cus change of unne Black whoused codies one ark occup The bout bone are the tholoneys from these the unclers proceed these termi rate in the Common cloaca. the unie is cuscharged then with the boces it is white coagulated also barly concerns mun earthymed les absorbed non me Leashers In the Odrain the Corpus Callorum Pineal gland- nates stesses - are a wanting. the ophe news decuf sale cach other - The membrane hidilans motecting the eye from the strong roup of the sun - the entrance The optic see eners very much to one side that the prome of the object the animal examines may not face upon it - a massupum higher is allewhed to the lens disco vered by the french academicans

nourd lowards an object placed near the nove-

The lestes of the marke are large in his portion to the animal Convalued hues has from agence esquesce an epictyohymis Mis is the las De ferens. Il terminales in hesiculo Siminales into which the temen is lodged. I forminales in the com mon cloude which the animal can investe there is no hostale gland I the lemen is of a white colour-In the pernale alest of yolho or ova no hes above the uterno- in the nterns the lgg hierous to us expul from is to dget - alute conveys the over into the nerus - by surroun ding it with fimbrialed edges for hes going into pores inthe sheer foin the weens od logether - when an 299 is level whom its fide & al lower to rest awhite then the sneed is taken off the ammon is always found whermost- of a white colorerupon small herd bookes compared

o hail stones halladge he yolk lums an air beigis found at the extrem my of the egg- he yoth by much how is converted into a hiner of Plan center it is furnished with refrelowhich have orethed from heam nion - the yolk receives the amni on in nasving Mrough me fallo prentites- the halladgo or poles on which the yolk turns cronot support it canavly- theyoth aim mul the ammon may rise so that. theyoung thick may not be uyined by prefine from the yoth. The sheld is secreted by me aterno the wel sels of the Placenter or yoth proceed Whe air bag - Mey unques honewy draw in air from the atmosphere Theair beig continues enlarging- The air is occided by me nepols of the chick - as thear of the quill sege Creted from the pulpy substance out women me flesh of the animal - a borhon of the yolk suce remeuns to nourish me Bluck36 lafo. amphibias - Sioher - Refo bles. Podati - Serpente - In the Erog- Me stomach intertines oplein huce of ounceers arefound connected as in the other-blufus - the amphi tio are tenaciones of life ma re markable degree - My stand less in deed of food - Girlal air them The other classo- Jome of there am malo exiot longer mæler water Than others. This is the care with the Ceal. whose inferior cava is very Parge. & areceptence is formed where the departe veins come out from the liver to receive The Stood when it commor he hours missed reachly through Mo the lungs of the animal - The dare lear uefoclo are numerous un Jishes & are more so Man me anulating - The lymphatus Oystem terminates - nearly as the human doco - The Fog has armyle heart from the wentrule asingle

a single anday comes off- This shals into hoo each refeel going to avesicle. The lungs of the animal This animal has large jours & fances - by a spericle muscle it can short the nove of then by the action of to jews it delates Melings which in moin are parfonice ofor low the motion of the shoraw the Heart is couble in the Sorlvine the auncles heure no Communicali but between the ventucles Merens abole of Communication - both the aona d'hemonary allery anse from the right wentricle - in the amphibio there is abrain obere bellum in various proportions The top of the spinal marrow has the power inherent in the hu man bain \_ The Jostes in the Male are orthated as thoney tous are- In the female the ulum is large - The buter commerced with it are long drontorted they have no for broaded colgan bit are fraced neur The deathrough which wisnembra

membranous- he ovaric are si by males on each side of the neerlebra of ablack colour- the ove floal about this season lovely in the ca orly of the abdomen . The oreduced is fixed. Where ova can only inter by being directed wit by the contrac hon of the abo. muscles - dishes hove in the water by fine & the water is applied to the gills try the eleva how & depression of the gue flapa slime is poured out on the body of fishes from large ducto- which rannify in bleach lines regularly whom the body to defend the ani mal from The water - There enels have aron' termination where yis a nerve equal in size loom office nowe- his ramply along Medudy Mucomis pelluced in its tranches from this we learn the nearfiely of newes Toglandular organo- The Alimy lanal in poher is short Duck with short ducks encurle medino denum The Concreas of the fish The Oplean is large ored its oword

18 is conveyed tothe Liver which is pale - There is agaill blacker the eyo he & hepatic duels join In the lost fish there are hepatoly received du the dalm ond where My inter the gave Versicier near its nech - lileinge Bag the living Blacketer of prohis is found in the abdomen of bishes. it is thick & lough. Whe leather - in the cod we Then it there is asponyy red or gan- two blind homo lead who wareto Nowarer o the receptante of the chyle dlymph - In the lark The how are blackeder mile trendholes who Me osophogus hom w y bladele may be distended. The Salmond. Hea col. a similar shu hue is found - In the Sugar the Olomanh & air bag directly com municale by always spening furnes his with asphinour- It is pro buty that the air is secreted Jum the Mucho in the code by compres Jing Meair or messing done the am mal out o & v. v. The macurel

Mararel wants the air borg - 19 The intestine on the Irale appears very short & thick but when the on In covering is latur of it may be Extended smuch - The Parleals are largo - den Me inferior low a There are numerous delatations The law over downte in hoher in the abdomen & at their entreme into The beaut values are found when affind is purcheauto the qual lym phase refel of the fish. The scale is exudes from immerewle pores proon the back of the fish - Sall wa he is found in the Brain & Pericar dum - into mis last it enters at extra from alube on couch fide of the anno - on the Ohingson yes is a com? between the pericard um & pelvis of the hidney - The lym phale Golem in the Joshes come Jurns hed with values. My one as calens we as the dangingerone byo tim- They green upon the surbace Shopep a living Contractile power

28 Tishes have in the heart how an notes one ventricle from which The Pulmonary artery comes out Mis terminaly in the gello- Nio alumed by Pulmonary viens. My four oform abrunk which is the aorte The animal his supplies the beart. The giels down parts ofy body - amounterer army freps plus the intestinal track - The beins when the blood to the diver from which bepale very enter the cava & return the blood to the Docart - In Jeshes y artones une inonumerable - peller Gid & certainly perferm secretion. Muse bonnenace in red veins In Me Sich - Mice is no pulsation In the aorta - which profices The Hood by no own proper action & not from airs alego - Whereals of the vena porto in fishes mud he achus because here the blood is in a 36 wile of the ouaphrague 1 membanous

Tishes neme male Scate at its ex Territy- there is ortholed away for modable weafron when its con my is folded beach an inchument mounding the fool of a good her formished with sharp knifes-The Sestes . It vasa deferentia near by us emole more of towlo- There is no prostate gland - The visicula Seminalio discharge The Semen who a Common bloaca-mixed with a greenish fluid from a In the fe connected recorcula mal at the buck bone there is abeed of yotho hed down her by membranes - her find here a liter me have evidently of a muscular Smichned. dis connected to a men branous diajohnagm - from Mus have the news may be delated no holles have ween found inthes Animal fleating love in Me to vely of the abdomen the egg of

Il the scarces of anoblong square form with arma having a while da yolls within as in The over of birds - The manny The yolk is conveyed into the small intestine - There ani mals merepore are overparous of the cranium bears aren purportion tome buch of the bruin- The remaineur is filled up by avalue water little dy leving from that of the besan il es not sowerer allogether felled up by morganie maller but it is crossed by Julies & mem brunes - The Brum is very Omale - is divided into leve brum oberebillum - The noney are large - born the Offerlory a of lie nowes are very large. The Brain hero abollow or ventricle in it - The Spinal marrows large onewwo come one from newsky

marly reservoting there of man The Organo of laste is perhaps till a acute - but that of Smell is more complex in most police menostries are pleased as in Buds Thave of a furtinala - mose Joshes are profresed of an organ if Meaning - Thewhales Ear hay Mixerine general structuredes in man or in the quadruped The streams is very small in The largest greenland whale has a have bony plug in the mealing which all as a value within. The Var we find tochles doenne arcular fanal; in the Sulle There here is no external mealus but I has the englewhean hiles The Temporal bone w Kallened I within & louching it is found aslender lashlage who asurgeon probe the other when they realing non

hon the oval bole In Bucho The Endacheon tuke wearly found the external mealur is brotested by about of feathing The drum of the Sar is longer externally- des suffronted by a larlelage as no The amphibility serving the place of mechany Bones formed in man - The Sweet iommunicate helow the Breun with each oner - Therefore when The Buck humo one one siece of its head low and Mexonarous object. it livlens with born cars In the Scale the cochlea and awarding - The Panalo are near by arenlan Sconlain alag -The scale has asmale mealus! Andelonno externe when il aboncha describing many acus Cle. The meatur leaves to a large has containing affind like med. albumen ovi sconteuning are Julavely formed actaceous mather

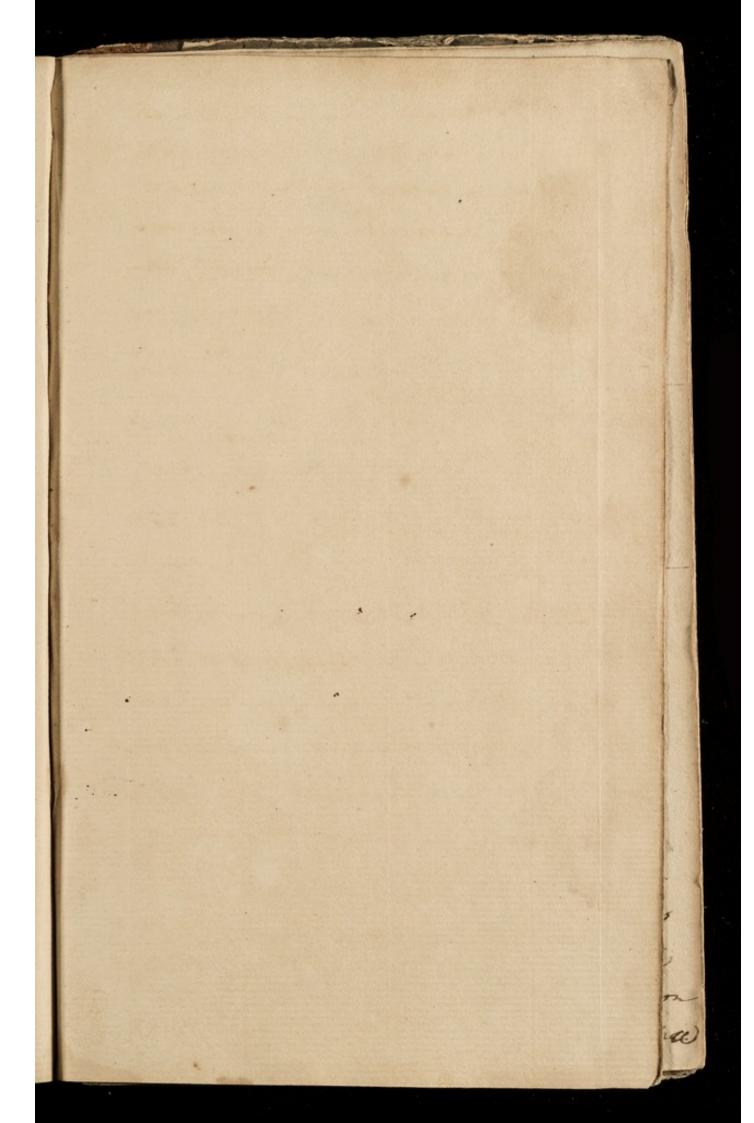
In The cod as me side of the brew asmall hollowed out ohell is plened upon which nowes are ramified in any beautiful manner - so that he herror growing sound affects it throthe meeting of the water swronn dry the Brain. It have no me alus anchiomo externo-The ophi nower placenty croticach Mur - they ence Meballs of the eye soliquely - the Pretime is to mils and parent-although theops he nome is opeque. The vilnous humor is Minner Shyhler. The leno is however more denne & peacy han in man it is more Opherical des composed of two parts adapted together - by mes sure we motoff to order parts Leone as ahara hellucid muche ino but when out by the knife or brus id like a poeire of gum ara

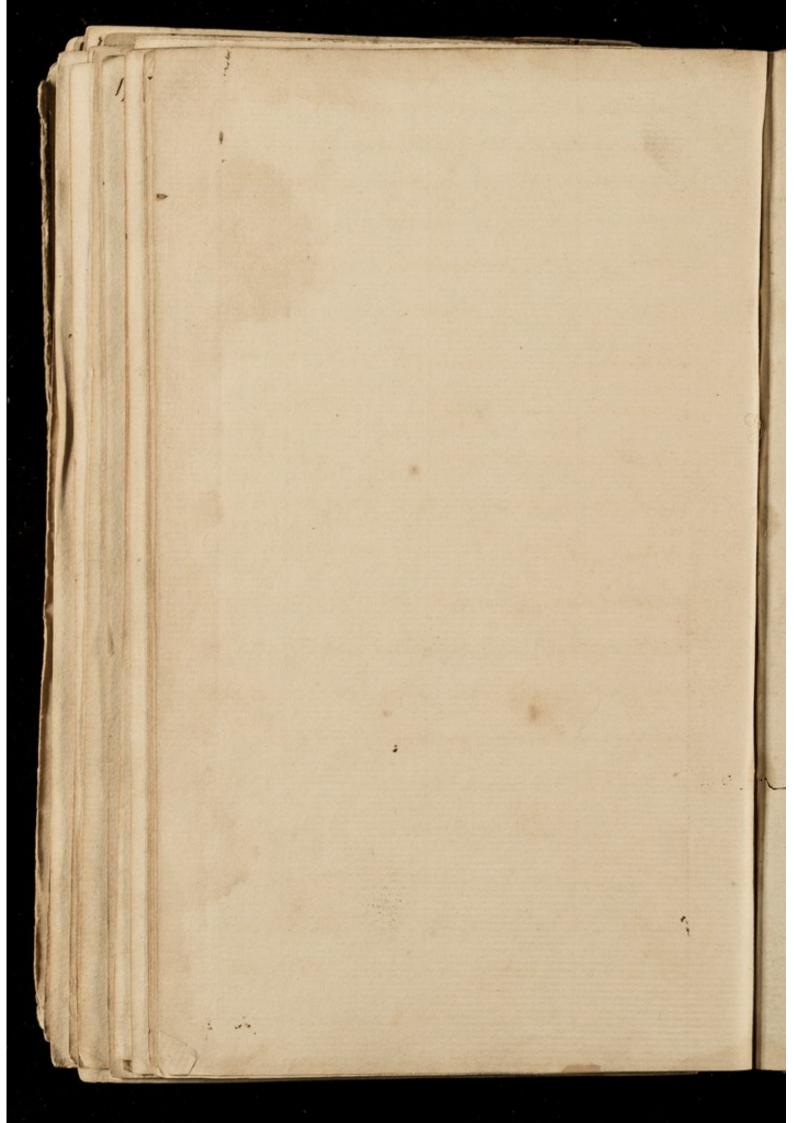
De arabic d'uccornes ofiaque. d ownhow water - like apenes Tooms and Insects - in there. the beart duralion of the blood goes on - Musical is see hicid so in the los ver- in the & chows Exculenters there is no heard but how aerenlating net echo are percencer in the mesen any- Where Eyes are forence he Mucen hem we generally find w brain which when enjured causes Convulsions - in the Sochems Esca lewher there is no Brain- get the Animal popuses agreed degree of newous energy. The proches on its surface are its feel down al Mongh me shell is wohen it moves in each particular part for some time - on the Copia Lolligo : no fewer then three heart are found ----

Monsters- Theparations. a last wim two heads - in the monoter There walk two hearts but the aorta informachy he Bentreles Dingle - In one care two small lobes above Meeyes mapelino westerson stand whe place of brain; but the norwes offinal marrow are of natural Dize - Da Tive metrenations of thes hund othe bones of the read are imperfect - Assumen monoter with two heads - I a single body & beart - another with actorite. body to one Dead - mathered there are the meliments of two bruns with one level ellum - where y one bead thoo boolies were found Mure was but asingle beaut. In alast- There are two distinct beads. The body well fermed I the spinal marrow joured -In a human minsur-both

1 18 bon me Bead brain Sheart were awanting. The yunal newwow begins by a concal points to dungo or africant Chy lo poche vercere une found The Odiatic normes were formed and of the natural - There was no Liver the untrhead ween when it entered the today- com. menced artery Luit us same heations to the several parts to The superior sinferior achience his - The Blood was return nea whe Placente of the Mo The by two untilical arterio much in the usual way-

munici





Lecture -

Munio west nouvelled and invigorated by amistine of annal onegetable fover humale receive their alim who are coplade the Someth Vegetables on the worth my de me it from immunicate external vones opening whom their Tuy are. The Dilution of the food in the mouth & fances - do sotuhom in the I Nomach by The gas mi fines The ashon of the muscle, of respiration - The hear of the body - accompline in mode ang achange whom the food by which it is assimilated

1, I liquor secreted from the Stom acting as a menolimen -Where the cours of the Stomach are Chirono- The food to Subjected to peal & compression I ca byer me jood so not ougested Tours Mac mis fluid was Caparle of stip olving hand pie ies of bonz unexxitodow the The Stomach of dogs \_ Meal is difoolved in the Stomach fanimals although melu Mu Sous trice of Pyricus is found for to be autisceptice. so that in some animals who This loop is the cuto the stomach el heromes leso so Jonnes Justico swallow ones which

, slowershe are incorrecte of receiving the street portion locked in the Stomach the other in the orophogus del is the former only which is formed clifs Nied \_ The Bele coun Luciolo acietity - Chromotio the non herween Mivil on waln of mealiment -DO The for one Bus programs of Bedrody origo & moregoto asserte Generation Jone annals like wege lavles grow by shoots as The Poly hi -Thus have organi of gener ation - commonly The Lesses are in distand individual 110 male invict former who The leaves of the mystile is capa I saparle of usall of generalong de hinde The Budisment of the Johns is contained in Me ovaria of the Ternale - The inthum The male semin reachy A - I wo then coveried to The surve - dis included in an over animalantes in the Simon - but wind for they are bulled by ringer Midemen remound fortile Bom Lesus mon producty contribute by a misture of stements whe grown of the ohis-. Menstruation The Elin is artenous not be nono - about the 15 year il lake, plenem Mrs blimale- Sis me Cecred by headout pours of

The Lower & can the men un mediately after delivery- of the woman les her child - about the 45 or 36 year the commung Lucomes vougular men ceases - Those famous des cases are apri to follow\_as Schorono Cancer bee me can in agreat measure above muo by Celling Bood I monio her observed Med Veno Section performed to julenty at the meno house porrod in lead of meventing The return of the discharge where it has been cheeked is the west way of rectoring Market proposed significants

\_ Lecturo\_ Immune of functions of the nervories systemis The humon of the eye hytheir pelludolity The. Franomi me light; by then form they collect the rays; They serve todejene me louts of the eye partien larly the Meline - From a lummous cen the light is thrown in stronght lines in all direc Section of the section tions-Dignol is reflected from a sul stame moon which it stuckes or the angle of uncreme being nal some angle of res fleesion Light ma passage pom a rare le acienser-thrist per

changes its direction or as ) ophnans speak it is refrae ted hence a straight voil in mersedonehulf unwweller annears tobe crooked and thecrenser the medium the greater the refraction town from The Luns verys are coloured or cent ray is compored Johners Sallerene colours as is seen in the rambow. or is demons herter my The prism - vocer-mengo the green yelfow- orange, red on mis is da oros brackede ly Jurning rapidly round a whelee divided uno seven egned to ando- when mewhote appears while after refrection in passing througha denser medium The rays are collected unto en forms

& a concare glafiscetters The revys of cight - whilse They are collected by one which is comes Mo men ue applier to om The orphine is hared withe fore part of the crystal line leno - The coald The ordreons humor when dromes forwards withe lens-divides motivo po cefocf between which is the alliany and The contraction of the ons is proportioned whe gran tity of high entering the eye The verys of light deen foate one another nearly about the Centre of the Lens

lerys of light from aprichine passing mough ashhere pieces with water collects the verys or figure at the des lame gone haff of the ophere The dris in its contractions aves not alter the Cornea - but serves mere lytouton superfluous very The thought anobbligne mus cles of the eye Commos mesicury me eye oriner The corner more convex The orbienlass Palpera mm when wewish to wills minutely an object are brought nearer lagerher lyan Mort me marke one view he objects brought rear army which he forewere conquied-Theoryell is inverted inou eye- bow come me loseed

Il was nedwal from how me are longhe lymound that merays mue owihe heborom of the eye come from avove Ima There which lave from Theah per part lone from le By instinct the Jeyes more loge ther oven althrough one of Mem un conered. By ompany medisten ces of intervening orgeels wegnele g disterneesof the orgen we look at Lecture Escheriments In me frog the seart is com pored of one auricle done ventricle - the ventricle emp hes so that when convered The purple cotour of the vlove

Hoochs dis annears - me animal luces forupweres of an home after meheart is and out by hearteeshough separated from the body once continue, to contrail though more cregularly- dwhen it hers cresed for some time times he renewed by huching the Beaut by a needle When the Scratic nerve is oh vieled the Limb of their siere # loses are pomer of motion dof Lenoanon but although all but the nerve he stivrered me and Continues lomore & Jeel When the limb is contrely to her away I he who of the Tereshe nerve piriched it is convulred or contracted almough the heave he remove

Ims welone above - The anmere continues lo mones avoil for mee elengs - but meseparemen bemerete below the 3° venevra me motion of the himo legs ceares ruly the spinese meurous he boulated by apon the less are convulred Then an infusion of ohum be injulid in whe cramium of a grog-il is insteadly ere moved of motion shulled by is otherears moves very lenguidly - annued to The heart-masimilen men her its motion becomes very Jeevle me annere oriends is hombo dis in agreat mens me killed. When original mothelowing of the aboronen The sprum exerts its inthrence more slowly - of the Bear has

been previously anow the ohum anewere affects me oscremilies - Injected under the thin of one of the expensies - merlint fine to give of motion when sue hear galwing try Mondemy weres wontrail Home we roused my any The purple nevorow may he ent did normane deprive memefrag of life- Mewound Closes up - but the monon whe injerior extremites is als vroyed - when all In Me Serestie nerves is cut The cauda eguine is planed onapolate of Time appece of golers put under me limb then a bas were merce to with the place of Line ogold

hyils ends me limb is in Menty convulred When alvire is hufred a sof the Scrahe neme and hearinal is immersed in a vefrels of Time contem ngweder it is ino levely con vulred - Lecture-The newes meiety actuale the And Teries which are the proper organs of of growth, mulnihon decretion The herves and Brain exist indexendent Jeach other although the nerve of a member he completely divided yet the part below will con home to live the circulation will he carried on Mough it - the newe sul continues after its connection, with the brain is cut off to generale her bous energy but it does not now V convey sensation or Nollion - Tro perly speaking there is no voluntary ins hon the action of our Muscles is 10 innate - The End

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