

7604. In English, on paper (watermarked 1814): written in 1816 by Edward Osler: 6.× 3½ in., 10 leaves.

'Surgery by Astley Cooper delivered at the Theatre St. Thomas' Hospital in the Course commencing October 8th, 1816. No. 1. 4 lectures, 1816, on Surgery in General, Irritation & Inflammation.' Signed 'E. Osler' on fol. 1. Notes of three lectures only. Foll. 9-10 are blank.

Bound with no. 7605, at foll. i-ii of which are notes by W. O., including a pr. extract from Guy's Hosp. Gaz., 1911, vol. 25, p. 277, 'Sir Astley Cooper's case of ligature of the abdominal aorta', signed William Osler, and quoting the letter men-

tioned in the last note to no. 7603.

See also no. 7532.

- Photoin 7534 at hel 30 NN.4.24.3. NA.2

7605 A B

FROM

THE LIBRARY

OF

SIR WILLIAM OSLER, BART.

Edward OSLER (1798-1885)

Indenture, 1811, apprenticing sir Wm.'s uncle to a surgeon at Falmouth.

Also his notes on the lectures of Cooper and of his eye-witness report of the ligation of Travers at St. Thomas's, 1816-17; and photo the abdominal aorta.

UY'S

DOMESTE harles

mem. ·u fo obur ab.u fo

Esq M D containing lecture 10th continued, 11th & 12th on wounds of arteries, wounds of veins, wounds of nerves, wounds of absorbents.' Foll. i-ii: see no. 7604.

7604. In English, on paper (watermarked 1814): written in 1816 by Edward Osler: 6.x

the Course I. Irrit Osle only Bo notes Hosp Coopsigne tione Se

Photos 753

1605

SIR WILLIAM OSLER, BART.
OXFORD

The original touth about 15. VIII. 17

JULY 8, 191

278

GUY'S F

The following have now satisfied the Examiners in all three sections: Depree, H. T. Sandison, A. Webster, V. T. P. Examined and approved. Ghapple, H. Crook, A. H. Crook, A. H. Examined and approved.	to sour constant of the column
SURGIOAL DEGREES. EASTER TERM, 1911. PART I.—PHARMACOLOGY AND GENERAL PATHOLOGY. Examined and approved. Garrett, G. W. B. Heaton, R. Jarvie, J. M. PART II.—SURGERY, MIDWITERY AND MEDICINE.	Lee. -Colley

7605. In English, on paper (watermarked 1814): written in 1817 by Edward Osler: $6\frac{3}{8} \times 3\frac{7}{8}$ in., iii +16 leaves: no. 7604 is bound at the end.

'1817. E. Osler. Surgery by B. Travers Esq M D containing lecture 10th continued, 11th & 12th on wounds of arteries, wounds of veins, wounds of nerves, wounds of absorbents.' Foll. i-ii: see no. 7604.

7604. In English, on paper (watermarked 1814): written in 1816 by Edward Osler: 6×

the Coursell I. Irrit Osle only Bc notes Hosi Coopsigne tione Se

Photo

1605

SIR WILLIAM OSLER, BART.
OXFORD

pa

but par beg

situe

the

that

Sir Astl Cooper's Case of Light the Abdominal Aorta.

JULY 8, 1911.

In look ver some letters of my uncle, Edward Osler, a student at the United Hospitals in 1816-18, I came across the following first-hand account of Sir Astley Cooper's famous case of ligature of the aorta, which is, I think, worth printing:-

"London, July 5th, 1817. —, aged about 40, has a very large tumor on the upper and outer part of the left thigh. It projects considerably from immediately below the crural arch; it is very hard, immoveable, without any pulsation and rather of a more livid colour than healthy parts. It is not circumscribed, but gradually blended with the surrounding parts, and has an unequal knobby feel. It began about twelve months ago and has been gradually increasing. From the size, the situation, and from no pulsation being felt at the femoral artery, no doubt was entertained that it was an aneurysm of the external iliac artery very high up. Cooper thought of tying the common iliac, but I believe was afraid. I mentioned that I could indistinctly feel the descending branch of the external circumflex, and it is probable I was correct, as one of the branches probably formed a large anastomosis with one of the vessels of the pelvis. Towards the end of May every part was very hard except one spot, which was soft and fluctuating ke an abscess. About the middle of June a ine of ulceration began to appear, which extended, and at last formed an eschar as large as a crown piece. On the 24th of June (Tuesday) Cooper saw him. After he had looked at him he sat by his bedside for a few minutes buried in thought, without speaking to anyone. At last he started up with a smile (you know his look!), 'I'll do it, but I'll wait for hæmorrhage.' He had not long to wait. On Wednesday afternoon the patient lost eighteen ounces of blood, and Cooper was sent for. He had taken a subject in the dead-house and operated on it through the abdomen and from the side (for the iliac). The

first he found easy, the other utterly impracticable. The patient was brought to the theat and Cooper made an incision immediate above Poupart's ligament, just large enoug to introduce his finger that it might plug the wound. His object was to find the mouth of the artery and thus command the hæmorrhage, and then cut down on it and secure it. He found, however, that the artery was ulcerated higher than he could reach, and that the common iliac itself was affected. He therefore had a plug to fit the wound, which he introduced on withdrawing his finger. He now determined to put a ligature on the aorta. He made a longitudinal incision, about 2½ inches long, on the left side of the umbilicus, about an inch from the linea alba, cutting through the rectus. introduced his finger, and pushing the intestines away felt for the aorta, tore through the mesocolon with his finger, separated the artery, and, looking round, said, 'Gentlemen, I have the pleasure of informing you that the aorta is now hooked up on my finger.' An aneurismal needle was now carried down under the vessel, and it was tied with facility. The operation indeed was by no means difficult or tedious. The ligature was left hanging out at the wound, which was united by the quilled suture. A dose of tinct. opii. was administered and he had a good night. On Thursday he was very cheerful and sanguine in his hopes of recovery. Both limbs were nearly of the natural temperature; he had no affection of the head or pain in the abdomen. Even Mr. Cooper and Mr. Travers had very great hopes of him, as the circulation was evidently affected in the inferior extremities. His pulse was above 110, of natural strength, and there was no throbbing of the carotids. When I went to see him on Friday morning, after writing you, a great change had taken place. His pulse was above 120 and weak, not at all thready, but above the natural fulness and very soft and feeble, as if the artery were not half full of blood. His face was pale and contracted, his eyes dull and heavy, and he seldom opened them; his left leg was cold, as were his extremities. He had passed a restless night and had slept very little. At one o'clock he died."

Erichsen's comment may be quoted:—"It is impossible not to comtemplate with admiration the man whose mind was the first to conceive, and whose hand was the first to carry out, the determination to apply a ligature to the abdominal aorta." WILLIAM OSLER.

Oxford, June 24th, 1911.

7604. In English, on paper (watermarked 1814): written in 1816 by Edward Osler: 6.x

the Coursell I. Irrit Osle only Bo notes Hoss Coorsigne tione Se

Phothe 753 at de

1605

SIR WILLIAM OSLER, BART.
OXFORD

Tou 8

Sir

Is loo Edwar pitals first-h

40, h
outer
sider
arch
parsa
than
but g

began gradual situation the fem

parts,

that it artery the c

mer 2

JULY 8, 191

278

GUY'S F

Appointments.

Medical School **Appointments**

The following appointments and reappointmen been made by the Treasurer upon the recommen of a Staff Meeting :-

MEDICAL SCHOOL.

Medical Registrars.-Messrs, Rippmann and Hunt.

Surgical Registrar.—Mr. Bromley.

Obstetric Assistant.—Mr. Chapple.

Demonstrator of Operative Surgery .- Mr. Layto Demonstrators of Anatomy. - Messrs. R. Davies and J. G. Saner.

Demonstrators of Physiology.-Messrs. Kennaw Ryffel.

Demonstrators of Chemistry.-Messrs. Ball and man.

Demonstrator of Biology. - Mr. Reed.

Clinical Analyst to the Wards.—Mr. Ryffel.

Ophthalmic Assistants.—Messrs. Anderson and Anæsthetists.-Messrs. Shipway, Page, Davies and Townrow.

Anæsthetist to Bright Ward .- Mr. Layton.

Junior Assistant Bacteriologist.-Mr. Browning Resident Medical Officer in Bright Ward .- 1 Dunderdale.

DENTAL SCHOOL.

Demonstrators of Practical Dentistry with Cha Revision Classes. Messrs. Malleson and Doubled: Demonstrators of Practical Dentistry with Cha

Probationary Classes.—Messrs. Edgar and Hodgsd Demonstrator of Operative Dentistry. - Mr. Chap Demonstrators of Prosthetic Dentistry.—Messrs. (and Tomes.

Demonstrators of Dental Microscopy.—Messrs. D and Kennaway

Curator of Dental Museum .- Mr. E. B. Dowset

Military.

The undermentioned Captain, R.A.M. Corps, Major, dated 4th June, 1911:—Chas. R. Evans.

Captain H. C. Keats, I.M.S., has been appointe Surgeon at Jullundur, Punjab.

Civil.

C. F. Routh, M.D., B.S. Lond., D.P.H. Cam been appointed Physician to the Portsmouth Ey Ear Hospital.

ROYAL COLLEGE OF SURGEONS OF ENGLAND R. Lawford Knaggs, M.D., F.R.C.S., has been e on the Court of Examiners in one of the vacancies by the retirement of Mr. C. T. Dent and Sir F. Ev

Sir Ast Light R.O.F.

In look ... Edward Osle pitals in 1816 first-hand ac famous case

agge,

I think, worth "London, 40, has a ver outer part of siderably fro arch; it is ve pulsation an than healthy but graduall parts, and l began about gradually in situation, an the femoral that it was artery very l the common mentioned descending and it is pr branches pr with one of the end o except one ike an abs ine of ul extended, a

as a crow (Tuesday) looked at I minutes bu anyone.

(you know wait for h wait. On lost eight

was sent dead-hous

abdomen

7604. In English, on paper (watermarked 1814): written in 1816 by Edward Osler: 6.x

the Countries only
Bounder Hosp Coopsigne tione

Photo 753 at do

Se

1605

SIR WILLIAM OSLER, BART.
OXFORD

· parep.

.VOII

England.

E OF M.C.

lls ni eronii

1

,Y50.

'1817. E. Osler. Surgery by B. Travers Esq M D containing lecture 10th continued, 11th & 12th on wounds of arteries, wounds of veins, wounds of nerves, wounds of absorbents.' Foll. i-ii: see no. 7604.

7605. In English, on paper (watermarked 1814): written in 1817 by Edward Osler: 63 × 37 in., iii + 16 leaves: no. 7604 is bound

THE PROPERTY OF MOTORINANT WILLIAM

SURGICAL DECREES.

EASTER TERM, 1911.

Examined and approved. РАВТ І. — РИАВМАСОГОСУ АИВ СЕМЕВАГ РАТНОГОСУ.

Heaton, R. Garrett, G. W. B.

three sections:-

Jarvie, J. M.

Examined and approved. PART II. - SURGERY, MIDWIFERY AND MEDICINE.

The following have now satisfied the Examiners in all

A , nosibnad

Webster, V. T. P. Depree, H. T.

EXAMINATION FOR THE DECREE OF M.C.

Examined and approved. EASTER TERM, 1911.

Chapple, H. Crook, A. H.

M.D.-Palmer, A. S. M. M.B., B.C.-Bromley, L. DEGREES CONFERRED,

Royal College of Surgeons of England.

FINAL FELLOWSHIP EXAMINATION.

Janmahomed, H. I.-M.D.

Royal College of Surgeons of Edinburgh.

Admitted to the Fellowship: E. B. Hinde.

Society of Apothecaries of London.

Medicine, Section I.: Edmeades, L. K.

and Townrow. Anæsthetists. - Messrs. Shipway, Page, Davies-Colley Ophthalmic Assistants.—Messrs. Anderson and Lee. Clinical Analyst to the Wards. - Mr. Hyflel. Demonstrator of Biology. -Mr. Reed.

Resident Medical Officer in Bright Ward. - Mr. G. Junior Assistant Bacteriologist.—Mr. Browning. Anæsthetist to Bright Ward. - Mr. Layton.

DENTAL SCHOOL.

Probationary Classes.—Messrs. Edgar and Hodgson. Demonstrators of Practical Dentistry with Charge of Revision Classes. - Messrs. Malleson and Doubleday. Demonstrators of Practical Dentistry with Charge of

Demonstrators of Prosthetic Dentistry. -Messrs. Charles Demonstrator of Operative Dentistry.—Mr. Chapman.

Demonstrators of Dental Microscopy. - Messrs. Dowsett and Tomes.

Curator of Dental Museum. - Mr. E. B. Dowsett. and Kennaway.

Military.

Captain H. C. Keats, I.M.S., has been appointed Civil Major, dated 4th June, 1911 :- Chas. R. Evans. The undermentioned Captain, R.A.M. Corps, to be

Surgeon at Jullundur, Punjab.

Dunderdale.

Ear Hospital. been appointed Physician to the Portsmouth Hye and C. F. Routh, M.D., B.S. Lond., D.P.H. Camb., has

by the retirement of Mr. C. T. Dent and Sir F. Eve. on the Court of Examiners in one of the vacancies caused R. Lawford Knaggs, M.D., F.R.C.S., has been elected ROYAL COLLEGE OF SURGEOUS OF ENGLAND.





by B. Travels Esq no 6 containing action 10th continues, 11 wounds of arteries wounds of beins Wounds of Mound Wounds of absorbents



betwee with continued Wounds of actives continued Sortling at the quickness with which a ligature set up adhesive suflam - mation & considering it used for no other view, Mr Travers true the removal of it after it had simply performed the task he thought its intention i.e. before suppura-- tion insued. This was done with the note that the wound in the surrounding parts might heal by arherion as well as the wount in the artery. He made many aspeciments with a view to show that there is good hope that this is purclicable. The experiments clary show that the ligature may be amoved at a very early recied & if the offel be

hen opened it will be found imperious. Tinding that this succeeded on the carotid or femeral arteries of a horse he thought it might be done with safety on the humany subjects & the opera-- tweed he had their performed have bun alunded with sucus iqual to his most variouse hopes. the expects to see the way when it will be considered an improvement in Jurgery to amove the ligature before the almative process is set up. He is ratisfied it may be done with safety & the point to be ascertained is at what time It may safely be removed. There is an interval between the acheswe I alcountive process & in this inter-- val it must be amoved. Then the wound nead like a ningle

incision there being no extraneous body to cause who suppuration. the found is hours sufficient in the caroled of a house & in an artery after amoustation. all the ligature has to do is to excite Inflammation in the lining of the artery I when it has excited this beflammation it has done all we require of it. It is time it severes the purpose of staying the blood but after a pew hours it no longer sewed that purpose for lymph is Thrown out in a short time which efectually accomplished this object. It has been already explained how the agature produces Inflammation on The two principles of wound and prepure : wound alone will do it but not so actainly as to make it applicable to practice. If we

continue prepure for a time more or less on the wound I remove the ligature long before the suppurative process is set up we may not apune that the canal of the arting will be as effectually obliticated as it would be if the ligature were suffered to umain till amoved by alaration. Mr Travers applied a ligature to the curoted of a house for six hours be in twenty four awided the artery above it I no blood escaped. The applied a ligature for twilve hours & immoristely divided the artery with the same result. He made puparations the asult of these experiments. He divided an arter to see if it would be applicable to amputation, applied a agature to the out end & removed it in toulor hours. The effect was just the same. He tried of asknown would equally take place where the blood was fluid & applied a water

on the formula artist immediately below the coopenas . He found it made no difference the fluidity of the blood not preventing achievion. The coagulum powents hamontage if ashiston has not taken place but is not mapay to adhescon. The practice of compressing artiries has been followed much in France l' other parts of the continent. The compagn is nothing now than a pair of forceful calculated to embrace the offel I by meant of a screen to compays it. Mr travers has applied this for 30 hours but not a particle of lymph was effected nor any thing approaching to obliteration. In another experiment he applied the instrument for 24 hours I allowed the animal to we no . The artery was obstituted but not satisfactories for the lymph

was mingled with the coapelium & the sloughing proofs had begun on the. could of the office where the comprehen had been applied. M. J. then true a parallel aperiment. He put a conted water on the carotid of a horse & a compreper on that of another In six hours he removed both & allowed the assimules to live yo hows. The result was the ligature has satisfactorily produced all that it wer produces having the piper Va coagulum some craches long. The compressor has produced a little flathe of lymph I connected with it a Small flath of cognitated blood not intransiting the process of circulation. It is but fair to say that the compagor applied for 12 hours de The animal suffered to los too it will obliterate the artist though wen then unsatisfactories. If the compression is not a good instrument it is a

very objectionable one on account of its quater bulk, the injury done to sissioninding frants, I the danger of ulcuation from the suppouration which inevitably follows its use. In the fact experiments om Travers made with the ligature he was in the habit of pollowing or forces plan of laying a slip of twine under the circular lijature & removing it by a see saw motion but the list way of tying it is with a look by which it may be easily removed only west hoting the direction of the look. m. I applied it in this way to the machial acting of a man to took it off in 50 hours . He might have done it in 12 but he wished to asartain the officacy of the practice to procure asherion but in practice he would move think of keeping on a ligature on a continuous artery larger than 12 hours & should not

be deterred by finding the pulle sustoned in the vellet because he is catisfied that the inflummation excited by the lightest with produces adherin. The reason for removing the ligature early is to avoid the inconvenience of suppuration . This resorted probably be avoided in the boury but contounly in 12. with regards to the efficiency of the peratice med. has not the shadow of a doubt. the has for a long time applied this ligature to all the stumps at It thomas' I has amoved it at the first or second duping in every case. as to shutting up the ligature in the wound it is a fractice not to be endured for absorpts will inevitably be preduced. The non-disturbance of the regul in lying it is of much importance. The best aneurismal needle is a small

bent probe a after opening the shealth we should not detach it from the active to a quater extent than is necessary for the propage of the parte. Mere has been a question about dividing the acting when the ligature is applied to one that is continuous. Mr. I never saw any good rwell from it or rather he never som any wil usult from the opposite has - tice. He believes one ligature as good as a hundred in securing an artily I that the attackion of the divided while is not in any way more factor -able to the result of healing. Have can be no whaction if we apply had one ligation because long before the ligature comes away, the april though cut by it is survely fartened by advisive Inflammation. If we apply two ligatures we must either have two wounds under the outsel or amount of its sheath to a considerable

extent, we must have a larger external covered & have the wisk I inconsissince of two ligations in the place of one. The divised repel will retract so much that a space is left for suppuration between the retracted ends I if supporation should cousine from the residence of two ligatures The of are inch asunder Here is danger of the pus getting under the angles of the wound & horrowing there so as not to be easily exacusted for when there are we ligature they have out at the angles of the wound; when only one is employed we have it opposite the antie of the

Hounds of Meins It appears that more danger altends wounds of vient than has been com-- money apprehended. It is long since practitioners knew that after bleating the um was sometimes attacked with Influmnation attended with very nous constitutional symptoms; Murtis was the first who investigated the subject & set it in its the light It was formerly attributed to lackered or had habit of the patient, to the wound of an attendant news, or of the fascion of the arm. However it is pully plain it could not be the new nor the aponeurusis of the Becepit. as to las habit of body we find the same person blick agreen & again in other cains yet not followed by any thing like Inflammation. your it was found that the out, which was followed by Inflammation of a vein might be made with

impunity in any or all the parts of the body. Such a cut enflicted with a much less clean instrument than a lanat rauly inflamed comparatively with the vain after bleeding. Then on examination it was found that the vein was inflamed The consequences of the Inflammation varied according to its sugar I extent. Thus of the conunc in the Hen fortened it often happined that a little supportation both place but this was superficial of unconnected with the win I won removed. If however the eight of the view had not unoted or being united , were gain separated by the suctions of the patient de it was found that abself would take place in the vein & that its onner court suppurated a fuculiarity of venous tipue I this is the way in which the accident syens. If any asherson takes place going the length of union between the side of the sein it is obliteration I if suspensation take

place at the same time it is confined; if atherion take place at a distance from the wound supparation gods on as far as the adhesin i then steps but it may have adhesion & absuff alternately the whole course of the vain. It is mapay that there be asherion if there is absente I should then be no arkesion the pers flows with the dood to the heart & makes the tour of the inculation. In some cases there is a thing of absorpts all the way up the vein . If therefore there is an abself it is bounded by achision & where there is no adherion it is not about but surfuration of the mour tune of the voin. Hunter says that he has seldon or ever examined large wind of Inflamed limbs when suffuration has taken place in the anuari substance but he has found Inflammation fenducing lymph or sufficiation in the vein as after compound pactions, amountations &

molipications & his observations are confirmed by me Wilson stictures on anatomy of winderall thut. Whether this be the consequence or the cause of the mischief is not known. the jugular view of house for inflame. I lad consequences plen follow. This is owing to the have lip sulive farmers employ a which often deps into the vin though it never should do so. beins of the layer size sometimes are obliterated by Inflammation. In the musical & chimyical transactions I Baillie whates a case of obliterative tina boun found in the dispecting loom. another Suyon has witheped two semilar instances in one of which 3in of pus were found with one achesem below the typatic, the other above the Iliac buind this patient duce of reflammation of the unused weeks after delivery. Li E. Home Jamesty has vine for Named I the Junstice

was polowed by tropes . and of 4 is 5 cases 2 or 3 were fatal, were symptoms followed & the partials who died were found to have highmomation of the Saphena extending along the femoral bun to the bence mons of the most acute Kinol. Lately a lijature was put on the fernoral win of a man in guy's I the potent duid in a pew days in an athaerdinary manner. On examination The vein was found inflama The symptoms were rigors followed by heat a swating with slight blieding from the wound in the win which though inflamed was not united. he ligation was applied by himhing if a small postion of the cuts & upplying a ligature round tum. on softweeter. The inner surface of the win was covered by lymph a the Inflammation extended as sigh as the defuncation of the Cara Opporte the wound the view was obliterated of above the obliteration was an opening

in the own by which the besting look place. a short time some the Summard bein was included in the ligature after an amputation at St. homas no danger being anticipated The man died in four days & the with rapped lymph extending as high as the Smulgent beins . This man symptoms were lighton the was very will for two or three days when his pulle became quick of he was bled. a few hours afterwards he was attacked with delivere of 14 hours after deli cornalose. To show that the practice of tying owns was not farmerly dualed it is advised by alter a Bell. Bake says it is superficien a case of a wounded jugular. mand what could have be done for a patient would bleen to death as won from the internal jupular as from the instil acting. however it should never be used for bacif . Me haves has

with some of the worst cases of theres he wer saw by compression but wen this is altended with a high dyren of Constitutional Initation & severe local prin. This way of were takes some time I it is wident the vein inflamed becoming afterwards a men strunken cowe. Munter Nafter him absently acommend the plan of procuring adhesion in suppossion of vains. Munter mentions a case in which he arrested the propup of Inflammation by applying a company & coller between the wound I the heart presenting the property of matter into the circulation. Mrs Travers does not know what having the passage of matter would do in the circulation but this we Know that vens are more susceptible of Inflammation them actives & Mal Inflammation is of the worst fund. They throw out lignight of as horry comb shape it suppurate at the

same time. This is a mark of weak action to is what we see in the head. There are differences of testive in the inner coats of wins I artist the never see species matter supposited in the composed of william substance. The composed of willular substance. The wind system is a large area of every view communicates with the whole. Inharps it is the abmission of air into the wounded own which recasions the mischief.

Lecture 13th Mounds of Moved

There are but you ascertained examples of wounds of surves but from what we particularly know on the subject they are not attended with any considerable consequences local or constitutional.

I say particularly because these is much theory affort on the subject I professional men are undicided whether the particular sensual im-- preprious following injuries are not referable to Inflammation of the injured nerved. The Polish General Marcinsko has his Sciatic news divided which was only followed by permanent laminess & we have instances of the durision of newes in various parts of the body & no putter consequence has ensue than paralysis of the parts those never supplied. In many instances too the functions of these parts were only suspended as some think from the remise of the newous substance or according to others by minciples umilar to anastimois in the newest . Timerly the inflamed

arm from bleeving was assuited by many to a puncture of the cutamous news of the aim & mand this was the generally received opinion Monro Sent, Post of others thought their I the division of the new was pro-- posted as a remore . The peculiar effect which follow princtured or lacurated wounds of aponeurotic & tensiones Muchund have been explained by a wound or injury done to the news of the part & though this is not easy of most, it is not easy of confustation. I doubt if Harms could be produced by an injury of a part ood of orthon I sensature. The wound giving win to this formidable disease is generally softet, often dup but generally wary small & it commented goes on well for several days. It is probably a work or ten ways before the system is affected with musular

initability. It is umarkable that in those cases there is no scotling of the wound of the limb, the given the absorbents or their glands . When the Constitutional synthems appear unpreceded by other symptoms they are those of new newous affection The pist ill omen is the las appearance of the wound & a samous discharge from it which may lead to this opinion . But it may be said the news cannot be discound to be inflamed. Now we cannot discover this from their testere Mousen some Rundegists have affirmed that they have seen Inflammation in the neurilimma or avering of the sawes. Then it might be supposed that the never supplying the estumity of the linger or distributed on the aponunous of the hand or just would be so minute that it is impossible the unitation of such a plant should oursers such districts; but his is

not a solid objection for the injury must take place in a find susperficially scattle & deficient of organized power I a fill of a sure being injured may be supposed to set up a hain of newous actions as well as a cord made up of many pibras N' all Me plusionena with which the theroods dutin is alled to Electricity lead w to expect it. I have seen a fatal can of totances result from including a branch of the anterior laural never in a ligatione & a man disk of the same disease in It hornes after you The Spermatic look which was by some alluduolet to including the news by they to the trad Defection. The recommend can handly be considered Inflammation & therefore the analogy is mapplicable for this is a disease of paragrams, has often no certain intervals of quiescence never goes into personament spasm &

supplied by the affected name . It is thought a monthol irritability of the new rather than Inflammation; route diatica much more marly winbles Inflammation but as this is a disease that never tells, we have no opportunities of inspiction. Intulion of a new writes a delessive sense of mying to the part beyond it. Thus the characteristic symptom of the hip disease is pain in the lines & after the division of the surves in amputation the patient is tweeblad with a sinsa. tion of lingling in his foot. after mitation of the cutumous news hain has been journed to affect the four park of the arm I a common instance is the sensation produced by prefere on the ulnar a scientio news in the jungers & foot. There are cases mentioned by Oth, mound be said to have superworld in injuries some days after their infliction allended with west pain I set down for case of sylamis

New. Absenthy i of the same opinion. It accommends dividing the seems when those some symptoms plion blessing to such some has been fall of this disease such show has been a transvisse incision that he advises a transvisse incision above to the bone to be certain of dividing the seems which we know a dividing the seems above the fascia. If we could satisfactorily make out that a year could satisfactorily make out that a sound or injury of a serve the lest a sound or injury of a serve the lest a sound or injury of a serve the lest a sound or injury of a serve the lest a sound or injury of a serve the lest a sound or injury of a serve the lest a sound or injury of a serve the lest a sound a sound or injury of a serve the lest a sound a sound or injury of a serve the lest a sound are sound that muse I divide it at a short dividence above the injured said.

There is much obscribed in the last subject best with agard to this & subject best with agard to this & the Mr. Influence from initaling the Mr. Influence from produced from initaling the absorbents, there is prechaps an aircumstance more produced for almost all parms of myong lines to produce it. Wounds asketter incided, contained successful or princetized, but stongs of insects,

way thing of this association will 14 give list to inflamed absolute & were waitation of the sound outicle will produce it . There a light show which does not ever about the cutes will in an issitable puson often produce a tenderup in the grain for the gland is always affected before the absorbent is inflamed. I can on the foot or a close not again on the finger will do the same. a broken shin will often occasion a sympathetic bubo; boils a cauncles which are presulty very painful in initable habits often inflame the neighboring absorbers to the injuries happening to the fungers I tous in the form of wounds are often followed by the same effects. The absorberts are unitimes inflamed without pain while the glanges are enlarged. This shows that it is not entirely agreable to unitability of constitution but the initability of the partient will discover it in my case women there another. However this

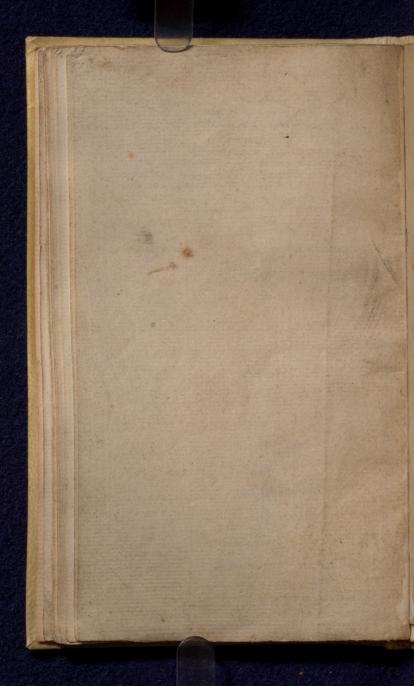
princtind wounds are more frequently pollower by Inflamed absolute than any others. woweness which have been called poisoned certainly have the that of rapidly producing inflammation of the absorbents & their glands & are followed by a fewer of the typhosa type which is prequently a rapidly fatal. It is include a mixed fever being Munic at the commencement but soon becomes typhoist with respect to the appearance of the Inglames absorbents themselves any one who has once sun it can num again be mishlen The red lines are surrounded with inflame a sudden allular membrane & have a valorities or Knothed appearance. Propure is intolerable of even the slightest touch is equisitely painful. It is amarkable that those wounds which produce Estanic offictions very landy inflame the absorbents. When a there about produces influence absorbents opening it will cause the inflammation to subsede. Much pas been and Respecting wounds of the absorbents preducing

it effects from the extraoration of lymph preventing realing & injuring the system by its loss but there is no substantial reason for believing that the system does suffer or that the healing process is interrupted. In poison wounds the absorbents became inflamed like paid werds as is sun in benesial cases it in carrier of the testicle or heart, they are sun faming have code unning to the nightoring glandes. The absorbents about the force I paws are similarly affected in malynant diseases of the face to pros. From the idea that poison was the cause of these injuries practitioners thought it right some yours up to acommend a stimulant teatment to obsiste the ill efects of "artilitating matter inter-- auced into the system is the five being of the typhrid lind give counter-- nance to this opinion but these effects have been found to follows wounder made by clean instruments & other modes of initation which are

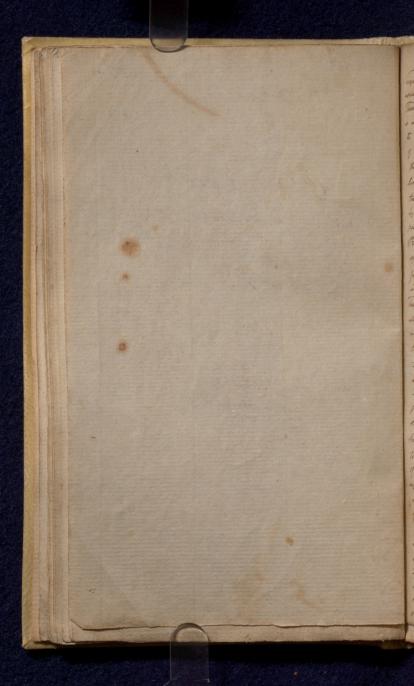
am

surpetly simple & the simulating heatment has in many cases insently aggravated if not weated the danger. It is not get determined if the rounds to which Students are so liable in dissection produce their ill effects from a poison inscalated into the system of morely from the nature of the wound inflicted when a person breakers a had in the system is predisposed as is the case of a person immused in the pursuit of his profusion during his saucation & this mudisposition is supposed to account for all the ill effects but I do not think the case will made get . I have sun the ell effects anticipated again & again by the application of caustic or acids to the wound immediately after its affliction. I do not pretend to say that simple wounds a civitations with clean instruments will not produce symptoms but the more severe cares are produced by wounder (even cut wounds) inflicted by instruments inclosed with

made noxious to the system. This is way sun in the nurses who wash foul lines I in dissecting secolents of in there care ndl The disease is unusually rapid and n swere. I therefore do not attribute it to the form of the wound nor to The part injured but rather think na there is some specific Inflammation to account for it. ning tim e the 9211 carl di Tord 1110



astley Cooper delivered at the Theater It Thomas Wisheld in the Course commencing October the Mb No 1 - 4 hetures . Invitation & Inflammation



Surgery hoten 19 wylry consists in the application of umories to risnous appearing externally & in the performance of operations. There are three sources from Shich a knowledge of surgery is derived just by wells laid down by surgeons for the practice of the profession derive from observations of disease in the living Second from examination of those diseases in the dead & Third from experiments on living animals. By the first we learn the Mistory of the disease, by the second its effects on the body & by the their the steps which nature takes to reston parts affected by disease. Surgery is divided into Principles & Practice. The first comprises a Knowledge of the risease which is necessary first to be known for after the Principles are known their application in practice is easy. Ten date are requisite in Surpy. Thus in the case of wound it is of no consequence where it is necessed, the treatment is the same. The we goes on in the same manner in three stayes Hemorrhage, ashesion & Inflam Granulation. The first thing to be come is to stop the himowhave then to clear the wound & approximate its eggs. The Vane Varous now pour out a flew which places the expes together, lastly granulations short up & the wound is healer. The Suggest should quaid against speculation opinions & speculations but should use lightomate theory: the one masters a talking the other a machial Surgion. The Tracket of durying consists in the application of remedies & aguires meatings & readings for every one can judge of these who cannot form an opinion of the abolised of a suryon. When an operation is newpary most be precipitate in telling your patient so. Seave it rather to him to regult it to be herformed be do not in it were dry him on the operating table There is one exception to this Hornia which requires

promptitude & quick decision for the life of a few hours is there inecorrupte. sever recommend any question which you would not sature to were you

in the same seturtion, never hugs him to undergo any sist which under the same corrumstances you any would not run. In operating think frist of the patients health. If an when is sloughy so well be the stump; if the patient has an affection of the lungs. an operation would only more quickly distroy him Debelity rather assists the haliest than otherwise but it must be distinguisted from disease. An operator requires a strasy hand, a quick eye & greet withoffy The last is generally the usualt of Knowledge. Operate as quickly as possible compatible with safety get near hurry an operation. Juste cheritic was the moth in of Sugary. Lat cito si sal bone should rather be applied. Gentlemps is insistensible to the Justion. The steines medsay are anatomy which enables us to our cuminate as well as to operate. The bones to muster connected with blood apple of the absorment muster commelies with Herrica are mapary to so known more hasticularly. The arteries should be a well Known as the alphabet. The eye is also an important part is are the male organs of pouretion attention to medicine & Thysology is required for all the number on Medicine are so intermitly connected that it is imporphile subuly to suparate them. Elled & & Pag 3' * when Inflammation runs high discharge an arrested . Where Swelles tothicle bollows Supposed gonorhea, is it not that reglect or improper treatment has incurred the Inflammation to such. a seque that while it supportes the discharge it & getends to the ustill & 6. 4.

Irritation Let 2" is an action exceled on the body by the application of any unnatural stimulus. When injuries kappen to the body their influence is extended to parts at a vistance Upendery on the degree of that injury This is overy to the action of the never which communicate with each other & it often happens that the most violent pain is gelt at a place distant from the diseased hart. Thus an enjury of the head will produce suckness in the stomach; a stone in the bladder caused pain at the extremity of the time Marely extensing above an inch into the unthra ; a sixused testile occasions pain in the lours N'a diseased lever in the shoulder: In Diseased hep joint the principal pain is plt in the three. But it is not menty unasings that is always the effect, real dissure is sometimes accasioned by this sympathy. Thus archested Gonorshia will often occasion a smaller terticle. It often too happens that after ampertation of the inference extremily or even after a compound parture the patient is attacked with retention of wine to such a regree as to unce the eather necessary & Initations are wither local or constitutional for the constitution is not always affected by the critation of parts. Thus a carrows tooth will fication without pain, Inflammation & Suppersion of the form de without affecting the contitution penerally This may be turned becal foutation. Constitutional portation is where the whole body is affected by the enging of a part. The it often happins that on withdrawing a bouger the patient is suger with a sudden faintings to even with rights. a flow on the stomach will sometimes occasion realth win in som cases where the blow has been slight probably by a sympathetic effect on the agans of aspiration more particularly the diaphragm. The usual symptimes of Britation (which is in fact a sympathetic Tiver are fort an affection of the newers Nystem showing itely

by a pain in the loins extending to the back & head . The alimentary canal is the next heat which suffers the tonque is day & purite wither white, yellow, howen or black according to the degree of writation, 1% the stomach is affected with nausea or vomition, the appetite is last, the bould costive, the liver secrete ortic less bele, the wine is small in quartity, hypostores I deposits much sidement, the skin is may & parcher & there is much think. If the Irritation be great, the bushing becomes difficult the pulse (Shich in slighter cases is full a quick f becomes hair, irregular & intermitting: relieum now comes on with Subsulta tendinum & Beath. Such are the Symptoms of Initation of the Constitution from beat Injury which vary in number & violence according to the ryw of lesson It is in fact an effort of nature to repair the. enjoy she has suffered from the accident. The byen by shalling up all the hours & diminishing all the secretions Having their confiner the blood in the heart be artered, the mest step is to desect it to expose the injury. Hence wish all the symptoms the organ of which defined on four accountances; first according to to importance of the part injured. Where the wital parts are wounded as for instance the stomach or lovels, nature sums to shrink from the spice of repairing them & sintle without a struggle. In these cases the public is flow not to be felt at the court turbe reath. Secondly on the difficulty which with in astering injuries of parts not intal. telance to death. Thirdly on age. An Infant will scaraly bear the least injury; a child about two year doe will sustain accident to perations with little comparative cargo ; robust persons between 30 & 46 are the word subjects for other accisents or operation while those between 600 yo of a space habit of boy will bear both perhaps as well as at any aft

tun

provided the general health is good. Touthty it aspects on the defendace of Constitutional Britability in Different persons. It not unfrequently happens that persons du of the critation arising from the simple operation of bleeding while others suffer the most trible accidents without any bas consequences. A man a brever busant came into guys thorital with a compound parties of the elbow. The pager could be introduced at the porterior part of the joint, happer through the articulation or wanes count the artery. The man required to submit to amputation of account about attent from or antalia of any root. Hence it occasionally happine that we lose a patient from a disease or inquery from which we have seen numbers secour. It will in jureal be way to attempt to sheak the contributional postation since it is an effort of nature to action diseased parts but it will sometimes happen that it suns so high at to be dangerous. In this case we are cartiers. by to riminish it. Our objects in this case we to live the secutions in the bowle by purges, in the bladen by delicents & on the skin by antinonials; to Duminish the irritability by opium & Saline medicanes I shere the initability is estreme to blies. There torg AHL operate

Sur

art

to

Inflammation but 3 the symptoms of Inglammation are leaness, trossen or swelling, increases sensibility of increases heat. The adought is occasioned by the les particles being pries into those which which rejenally access only sersus. Thus todas which cannot be injected in a healthy state neine the injection easily when inflamed. The tension arises from the silatation of the repuls a from appearing assistated albumen & Surem into the cellular Membrane. The tam is the result of the great determination of their to the part shirthing the extremities of the herris I giving them increased sensibility. It has been doubted whether there really be increased heart in Inflammation. M. Who Minter having assertained the temperature of the Najina of an ago injecter it with a Solution of Aymunate of mercury of found that the inflammation produced was not attended with increases heat. The same effect was produced on injecting the Riction of a 3of with a similar solution. Our Julings however lead us to believe that there is an increase of temperature & some esperiments which have been made on this subject Differ in the result from Mr I. Hunter's a blister being applied to the thigh raised the temperature of the part inflamed by its action in one case To din another to above the other. Hence it would appear that there is not heat hurner by Inflammation which effects the thermometer. The effects of Inflammation are four ashesion, Supporation, absorption & gangrine. Inflammely is eather healthy or unhealthy. Healthy Inflam. mation is not of itself a disease but a moup. by which hater process restration. without asheron Replamenton way wound must know, matal since we could never arest a himovhope "

or cure a wound. It is by the Suppurating Prough that estraneous bosses are known out of the system. By the alcerative proups parts no boyer useful are separated or thrown of . This is unreally attended with suppuration but not newsarily. gargiene distroys the parts which are afterwards thrown of by alcuration. When the stimulus of the disease ours so high as to distroy any part to infuls lose their vitality, the blood coagulates in thim & nature immediately begins the work of Separation. Hence all these processes are in Themselves useful & are only mischievous in Diseased constitutions. Unhealthy Inflammation is that 'y Shick is generaled spontaneously from Eiseased constitution & here medical Surgery is required for topical applications are seldom of much service in contributional visease. Inflammation is often the next of a specific a peculiar character the usuit of constitutional obsorber or the application of poisons. Thus though Gout hos the symptoms of inflammation i.e. lainings, turnon, pain & heat, its secution is different being pers in healthy Inglammation a thirty of Joda in fout concerting on the joints. Vienges is another specific Inflammation : It allows the orgals to short into it without checking them I it is consequently week shory hours alls felled with seven, it often bless sig it suppersale forms a pew like putric train it is also hable mod to be propagated by the absorbents of to affect house parts at the same time? Cancer Scrophula hyles I & Enjoyeles also refler in many respects from It healthy inflammation . There specific diseases are most difficult of our since they for the most had

n

di

lear

require specific remides & even these are often unsucceptul of invariably fail in cancer. among The specific Inflammations occasioned by particular poisons are Syphilis, small Ox measles & all of which are different from every other disease of require a specific treatment. Inflammation is of two. rands acute o Chronic the just shew it jous on rapidly requiring deptation, the second where the acute is your & the pasts are debelitated in Continue aguing Fimilies. We cannot have a bottle example of this than in Gonorhea which at first agues antiphlogisthus means, & when the occute Inglammato is suticies, timulants as Coparlo & Stimulating Injections. The previous cause of Inflammation is irritability. When a body is irritable it is liable to be inflamed from very slight causes. Thus after thing salisated, an operation of any consequence would probably oustroy the nation that girl had a tumor in her breast. The was put under a course of mercury which failing, her breast was aemoved. The inflammation san so high as to distroy her. When a person has been weathered by fiver, slight stimule well often bring on spacelus. Blisters applied in measles sometimes occasion gary and in the parts to which they are applied. Part which are Distant from the heart are more irritable than throw which are nearer. Thus we prequently see belows on the less but racely on the arms or thighs. In Hydran shere much irritability exists the injection will occasion votent inflammation of suppuration. The cause then of inflammation is whatiou there the body into an unnatural state. Thus Then posen parts are suddenly those they inflame a often sphacelate. Our her purpheration

will often occasion inflammation of some organ which is more issitable than others. Concurring the Presimate cause a vivily of opinions have been given. according to the turnoral Pathology it was a thickenes state of the blood. But the blood is thismer in Inflammation . Cultur soid it was a strason in the extremities of the beful. 40 Other that there is an increased action of the refuls of the inflamed part but the leveres is the case. Their yain attribute it to weatings but this rebelity is not the cause but the effect. Inflammation them is when He Bad particles enter the apple which had only 'y conviged mond & this may be proved by ocular Owners tration. If on the web of a proje foot we rich retires and, inflammation takes place of in see the us particles entering the , repuls where there were none before & the repuls prow under the eye. The same effect is evident hun in Ophthalmia. The delatation is occasioned by The force of the blood upon the rights the action being at a distance. In short Inflammation is a dishoration to dilate in the hast itself wo & an increased action in the hard around its When nature wants to remove any writating body she begins by sender large quantities of blood to the part as an extraneous body is washes from the up by a suffusion of least an estagement takes place in the artisus of the appeles 7 10 the hast. Thus if we grash a junger affected with Mitton The pulsation in the arteres of that finger is for more distinct than those of the others. be may readily prove that the laye artered If an inflamed hart on enlayer by secting

inflammation in the by of a Day, Killing it & injecting the arteres on both sion from the anta. The activity of the inflamed limb will be print enlarged. Let 4th The treatment of Deflammation will be after constitutional a local or in some cases both. One of the most effectual means of lessening deflammation constitutionally is bleeding shirt is necessary shin any of the vital organs are aspected. Bleeding sperates in two ways just in diminishing the momentum of the blood I secondly by Expening the neverus power. When we have recount to bleeding in this visible in should abstract it quilly from a large cupic for the quicker it is drawn the greater is its effect on Inflammation. The only dejection to this practice is that in way has constitutions, large outres in viens are head with difficulty & even the vein itself measionally inflames. This however occurs so ranty that it is night by all Surgions. The quantity of blood to be abstracted depends on the state of the partients constitution for some will bear the loss of a large quantity much bethe than Thus will that of a comparatively small one. He may makes the lift of bod act at once thically & constitution - ally which is particularly advantagious in Influence - less of any important oyan as for instance in hyand of the head, by abstracting blood from the Sugalorbur a Temporal arting we act particularly on the affects organ & generally on the Constitution. When we are to repeat shouldling we judge of its propiety from the state of the pulse & the appearance of the blood. The most unequirecal symptom is hardrigs of the public get this is not an inswiable rule for in Inflammate of any of the aldominal tisura the pulse is pignet & small get buden is required which makes it boarder, increases its strength & diminishes its quely a pulse above 120 generally forbios being as a quick hube in general is the effect of weakings. I say

appearance of the blood also to shick much attention is often paid is not so much the result of Inflamme. tion as of quickness of pulse; but when the blood is outper & the pulse continued hard we may repeat bluding with safety & advantage. a spasmodic just of the pulse is not so much the result of Inflamma tion as of initation. Bluding therefore in this case is useless & opinson has the best effect. When we with to exist fainting as in Shangulated Hermia, fleto quickly in an erect position but if the patient 40 be liable to faint & such an effect be not descried, a recumbered posture is the most proper. the second mode of relieving biplammetion Constitutionly is by acting on the secretions from the bowels, skin an h I Kioneys which are all more or less diminished in inflammation & the restoration of which will raction very much tend to diminish it. He means of day this on the bowls are by purges which not only la on remove from them the load which oppress them & has been thereby a some of writation but also lestone the occution by stimulating the alimentary canal I for this reason initating junges are best. he best purgation for children is balomid especially if given gulos at night with some saline purgature in the morning. effo The second Secretion the restoration of which will generally have great effect in the our of Inflammation ty po is the Pushiration. This is always stopped when the Inflammation was high & it is estumily useful to restore it. This may be effected by the Man hat both when topically a generally, antimornials liquor, ammon. aat., Pulo Specae. f. or by subsent dunk's taken in a warm state the patient being afterwards kept warm. Perspiration acts by execuation I by deriving the blood to the surface of the body. The secretion from the Kenneys is of less importance.

Squills of diluent drinks will be found most efficacions in Restoury it when it shall be pieged neapary. another way of relieving active Enflammation is by existing hause which never fails to lower the pulse : astimonials in this manner act with a very good effect especially in Granche hachester. Chronic Inflammation regimes a difficult treatment. Here we must act more gradually & be satisfied with producing such a state of attention in the system as may ultimately lend to advantage. This Inflammation lasts a long time of the Midiany the most useful here are alteratives i.e. those which act gently on the bowels & skin . Hence the use of Purmers Vill continues for some time which being composed of calonel, antimony & quaixan answers both these intentions. The Polula Hydragyin is also useful for the same leason. In some cases The Devoction of Sansaparella well be found a unipul auxiliary to these by diminishing irritability & tending to the skin. In those affections of the Mesentine glands & win in asales following such an affection the byymerias Hydragger in dord of 16 to 16 of a grain ture a say will often be pound extremely useful. Given in Decoit Circhonde though the mexica is rather unchemical it has flow the best effects. In ophthelmer it will be glen found of extreme whilely. a gad who had sheary lost one eye by chroni phthalmia was admitted into guys Horhstal for a similar apportion of the other. after a variety of remedes had been used without appet she was on the hourt of being desongred invertable then the Aymen by ourygin was the which in a short time effected a complete cure.

The local tradment of acute Inflammation consists first in the application of cold which operates in two ways by the obstraction of head which demindent nervous energy & by occasioning contraction of the while which had been annoturally dilated. The cold should not be too severe. The application of in for instance except in cases of incarcuates huma would increase the irritability of the hart of expression the disease. The best move of abstracting heat is by evaporating lotions. Thirts of wine a water forms an excellent application of this sort. Saturnine Estions also are extremely useful. They should be applied by laying rays wither with them to the inflamed part which should be exposed to the action of the our that waporation may go on fully. The best proportion for the spent wath is Of the bine 3/1 aqua 30 ft lotes .-These are beneficial from their evaporation carrying off a quat quantity of the superabundant calorie from the inflames part I not generally from any specific action or virtues which They may property. The more simple in general these applications are the detter since they all set by diminishing the nervous energy Guy of the hart & by beginning the diameter of The vegets.

her

nyy

