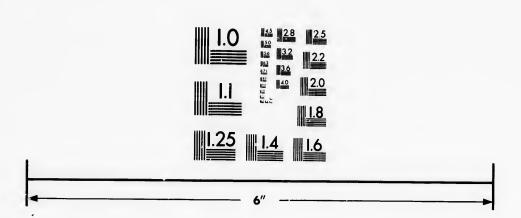


### IMAGE EVALUATION TEST TARGET (MT-3)



Photographic Sciences Corporation

23 WEST MAIN STREET WEBSTER, N.Y. 14580 (716) 872-4503

STATE OF THE PARTY OF THE PARTY

CIHM/ICMH Microfiche Series. CIHM/ICMH Collection de microfiches.



Canadian Institute for Historical Microreproductions / Institut canadien de microreproductions historiques



(C) 1986

#### Technical and Bibliographic Notes/Notes techniques et bibliographiques

The Institute has attempted to obtain the best L'Institut a microfilmé le meilleur exemplaire original copy available for filming. Features of this qu'il lul a été possible de se procurer. Les détails copy which may be bibliographically unique, de set exemplaire qui sont paut-être uniques du which may alter any of the images in the point de vue bibliographique, qui peuvent modifier reproduction, or which may significantly change une image reproduite, ou qui peuvent exiger une the usual method of filming, are checked below. modification dans la méthode normale de filmage sont indiqués ci-dessous. Coloured covers/ Coloured pages/ Couverture de couleur Pages de couleur Covers damaged/ Pages damaged/ Couverture endommagée Pages endommagées Covers restored and/o: laminated/ Pages restored and/or laminated/ Couverture restaurée et/ou pelliculée Pages restaurées et/ou pelliculées Cover title missing/ Pages discoloured, stained or foxed/ Le titre de couverture manque Pages décolorées, tachetées ou piquées Coloured maps/ Pages dotached/ Cartes géographiques en couleur Pages détachées Coloured ink (i.e. other than blue or black)/ Showthrough/ Encre de couleur (i.e. autre que bleue ou noire) Transparence Coloured plates and/or illustrations/ Quality of print varies/ Planches et/ou illustrations en couleur Qualité inégale de l'impression Bound with other material/ Includes supplementary material/ Relié avec d'autres documents Comprend du matériel supplémentaire Tight binding may cause shadows or distortion Only edition available/ along interior margin/ Seule édition disponible La re liure serrée peut causer de l'ombre ou de la distortion le long de la marge intérieure Pages wholly or partially obscured by errata slips, tissues, etc., have been refilmed to Blank leaves added during restoration may ensure the best possible image/ appear within the text. Whenever possible, these Les pages totalement ou partiellement have been omitted from filming/ obscurcies par un feuillet d'errata, une pelure, Il se peut que certaines pages blanches ajoutées etc., ont été filmées à nouveau de façon à lors d'une restauration apparaissent dans le texte. obte-ir la meilleure image possible. mais, lorsque cela était possible, ces pages n'ont pas été filmées. Additional comments:/ Commentaires supplémentaires: This item is filmed at the reduction ratio checked below/ Ce document est filmé au taux de réduction indiqué ci-dessous. 10X 18X 22X 26X 30X

12X

16X

The copy filmed here has been reproduced thanks to the generosity of:

Medical Library McGill University Montreal

ire détails

es

errata to

pelure, on à

es du

er une

filmage

modifier

The images appearing here are the best quality possible considering the condition and legibility of the original copy and in keeping with the filming contract specifications.

Original copies in printed paper covers are filmed beginning with the front cover and ending on the last page with a printed or illustrated impression, or the back cover when appropriate. All other original copies are filmed beginning on the first page with a printed or illustrated impression, and anding on the last page with a printed or illustrated impression.

The last recorded frame on each microfiche shall contain the symbol → (meaning "CONTINUED"), or the symbol ▼ (meening "END"), whichever applies.

Map2, plates, charts, etc., may be filmed at different reduction ratios. Those too large to be entirely included in one exposure are filmed beginning in the upper left hand corner, left to right and top to bottom, as many frames as required. The following diagrams illustrate the method:

L'exemplaire flimé fut reproduit grâce à la généroalté de:

Medical Library McGill University Montreal

Les images suivantes ont été reproduites avec le plus grand soin, compte tenu de la condition et de la netteté de l'exemplaire filmé, at en conformité avec les conditions du contrat de filmage.

Les exemplaires originaux dont la couverture en papier est imprimée sont filmés an commençant par le premier plat et en terminant soit per la dernière page qui comporte une empreinte d'impression ou d'illustration, soit par le second plat, selon le cas. Tous les autres axemplaires origineux sont filmés en commençent per la première page qui comporte une empreinte d'impression ou d'illustration et en terminant par la darnière page qui comporte une telle empreinte.

Un des symboles sulvants apparaîtra sur la dernière Image de cheque microfiche, seion le cas: le symbole → signifle "A SUIVRE", le symbole ♥ signifle "FIN".

Les cartes, planches, tableaux, etc., peuvent être filmés à des taux de réduction différents.
Lorsque le document est trop grand pour être reproduit en un seul cilché, il est filmé à partir de l'angle supérieur geuche, de gauche à droite, et de haut en bas, en prenant le nombre d'images nécessaire. Les diagrammes suivanta illustrent la méthode.

1	2	3

1	
2	
3	

1	2	3
4	5	6



### A YEAR'S WORK

IN

## ABDOMINAL SURGERY.

BY

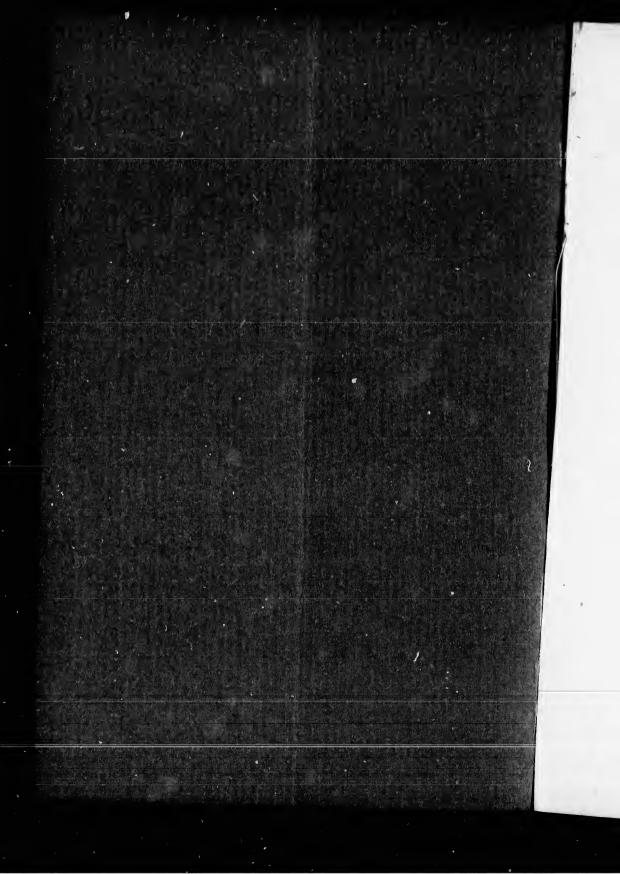
#### WILLIAM GARDNER, M.D.,

PROFESSOR OF GYNECOLOGY, McGILL UNIVERSITY; GYNECOLOGIST TO THE MONTREAL GENERAL HOSPITAL; ONE OF THE VICE-PRESIDENTS OF THE BRITISH GYNECOLOGICAL SOCIETY.

Reprinted from the Canada Medical & Surgical Journal, October, 1887.

MONTREAL:
GAZETTE PRINTING COMPANY,

1887



## A YEAR'S WORK

IN

## ABDOMINAL SURGERY.

BY

## WILLIAM GARDNER, M.D.,

PROFESSOR OF GYNÆCOLOGY, McGILL UNIVERSITY; GYNÆCOLOGIST TO THE MONTREAL GENERAL HOSPITAL; ONE OF THE VICE-PRESIDENTS OF THE BRITISH GYN. ECOLOGICAL SOCIETY,

Reprinted from the Canada Medical & Surgical Journal, October, 1887.

MONTREAL: GAZETTE PRINTING COMPANY. 1887.



### A YEAR'S WORK IN ABDOMINAL SURGERY.\*

BY WILLIAM GARDNER, M.D.,

Professor of Gynæcology, McGill University; Gynæcologist to the Montreal Goneral Hospital; one of the Vice-Presidents of the British Gynæcological Society.

Mr. President and Gentlemen-During the last working year I have opened the peritoneal cavity 38 times. Of these 35 were abdominal sections, the others were total vaginal extirpations of the uterus, and I have included them in the list because the important element of peritoneal section obtains equally in them with the abdominal cases proper. submit includes an unusual variety of cases and conditions, and I venture to think that its recital may be of some interest and furnish material for a useful discussion. Every operation was done in a private hospital, with the most scrupulous attention to cleanliness of the hands of operator, assistants and nurses; and of instruments, sponges and ligatures, but without the use of any antiseptic whatever except to the field of operation-abdominal wall or cavity of the vagina,-where a 1-1000 sublimate solution was always freely used after thorough scrubbing of the part with soap and water. The after-treatment was entirely under my own watching and control, a circumstance to which I attribute great importance in determining the results obtained. The following is a brief classification of the cases with results:

		j	Recoveries	B. Deaths.
Ovariotomies	16		16	_
Hysterectomies	<b>2</b>		$^2$	_
Removals of Uterine Appendages	11		10	1
Abdominal section for opening Pelvic Abscess	2		2	_
Puerperal Peritonitis Abdominal section for	2			2
Retro-Peritoneal Cyst	1		1	_
Exploratory Operations	3		2	1
Total Vaginal Extirpation of Uterus	3		3	
				· 4 T.

Of the ovariotomies several were of exceptional interest. In

<sup>\*</sup> Read in abstract before the annual meeting of the Canadian Medical Association, at Hamilton, Sept. 1st. 1887.

two there was twisting of the pedicle, giving rise in both to violent pain, and in one of them to severe peritonitis. In the latter case, a patient of my friend Dr. Molson, the pedicle was twisted three times; the walls of the cyst, a dermoid, were almost black; adhesions were universal; the second ovary being enlarged and cystic, was also removed; the cavity was washed out and a drainage-tube employed for five days. The uterus was found to be somewhat enlarged, soft and vascular. A suspicion of possible pregnancy flashed across my mind, but the idea was not seriously entertained at the time of the operation. The patient recovered without a bad symptom. Three months afterwards I had an opportunity of examining her, and found her undoubtedly pregnant to about five months, gestation persisting in spite of the rotation of the tumor, with strangulation and consequent severe peritonitis, a double ovariotomy with washing out and drainage, the glass drainage-tube lying behind the uterus and in contact with its posterior wall for five days. This is my second ovariotomy during pregnancy; the first also recovered without a symptom worthy of note. The patient was delivered at full term just six months after the operation. Both mother and child are alive and well to-day.\*

The other twisted pedicle case was sent to me by Dr. Vaux of Brockville, and was that of an unmarried woman of 25. She had for several weeks suffered severe pain, unrelieved by morphia in full doses. The twisted pedicle was enormously thickened from ædema the result of obstructed circulation, and the cyst wall much discolored; there were papillomatous growths from its interior, and hemorrhage into its cavity. Recovery was rapid and complete.

In both cases the tumors were small, as is usual in axial rotation, and they are good examples of the many untoward accidents to which all ovarian tumors are liable, and furnish strong arguments in favor of the plea for early ovariotomy.

Another of the series was in a hale old lady of 68, whose recovery from the conditions incidental to the operation was absolutely without any event worthy of note, except slight cys-

<sup>\*</sup> See Canada Lancet, February, 1887.

titis, but who on the second day developed pleurisy, which soon became double, with most alarming symptoms. The pulse rose to 180, and was irregular and unequal. She ultimately made

a perfect recovery.

In two of the cases the tumors were sarcoma, one being sarcomatous degeneration of a dermoid cyst. In both there were adhesions to intestine and every other structure within reach. In both, washing out and drainage were resorted to. They were desperately severe operations, but both recovered. In one the curious symptom of polyuria developed in the third week, and for several days six to seven pints of urine were secreted. There was great thirst and enormous appetite. These symptoms had completly disappeared before the patient was discharged.

In one case—an enormous tumor—the patient had a successful pregnancy and uneventful delivery at full term, after the tumor had attained considerable size, and she had been tapped four times, once at the interval of a fortnight before her con-

finement.

In nine of the sixteen cases the condition of the second ovary was such as in my opinion to demand its removal. ditions were marked enlargement and cystic disease. question of the necessity of removing the second ovary under these circumstances has given me some anxiety in young subjects, as it seems to me it must to every conscientious surgeon. So far as I know there is no known method by which to diagnose on the operating-table a condition comparatively harmless, and which may not prevent successful ovulation and conception from one which is the commencement of a disease that must ultimately demand operation. It is quite certain that all slightly enlarged and cystic ovaries are not commencing ovarian tumors. In a woman who has already attained or is nearing the menopause, the second ovary when in such a condition, or, according to some surgeons, even when apparently perfectly healthy, must always be removed, knowing as we do its proneness to the disease which has required operation for the first. But it is far otherwise in the young woman, married or not, from whom by a double ovariotomy, it may be, needless, all possibility of realization of the much cherished hope of maternity is for ever removed. I confess that for myself the question is as yet unsolved. All recently published experience is quite in accord with my own that the double operation does not in the least add to the dangers. It may be remembered that Sir Spencer Wells' standard to the dangers.

tistics seemed to indicate an opposite conclusion.

The operation of removal of the appendages is one, now-a-days, of even more interest than ovariotomy, because more recent and inasmuch as it involves certain questions not yet quite solved to the satisfaction of everybody. I can honestly say that some of my cases have given me more satisfaction than anything else in my work during this last, as in former years of my work. list comprises examples of almost all the conditions for which the operation is ever necessary. Such were pyosalpinx, hæmatosalpinx, pelvic hæmatocele, enlarged and cystic ovaries, and cirrhotic very small ovaries, with and without adhesions from previous pelvic peritonitis. Some have been restored in a few weeks from a life of more or less complete invalidism to health, activity and usefulness. Others have been slow in recovering from the operation, because of secondary inflammation about the pedicle. In others still, nothing could have been more favorable than the after course quoad the operation, but the morbid condition of nerve centres which is in some the result of long-continued suffering and habits of invalidism continued for several months to manifest itself in the persistence of pain in the regions whence the diseased appendages were removed, or in some distant reflex symptom, most commonly headache. The single death of the series was from hemorrhage, and it is the only death in the list of which I have any reason to be ashamed, as it might have been prevented if I had been called to the patient in time. As it was, I reached her bedside nine hours after the operation, when she was moribund. The peritoneum was found full of blood, but the ligatures held fast. The exact source of the blood flow was not found, but it was doubtless either a rent of some part of the broad ligaments or one of the suture needle punctures. The operation was a perfectly simple one for cystic ovaries without any adhesions whatever. Some of the operations were the most difficult I have ever had to encounter, by far more difficult than any but the most difficult ovariotomies, and I think that without washing out and the drainage-tube some of them had scarcely a chance of recovery. It is in such cases, perhaps, more than in any other in the whole range of abdominal surgery that the value of experience becomes apparent in the separation of adhesions and recognition by touch of the educated finger of the parts which must be removed. This all important part of the operation must be done solely by the sense of touch, and in some of my cases the whole operation was done through an inch-and-a-half incision.

Of the miscellaneous cases, the following one of exploratory incision is of exceptional interest: A tumor-like mass of doubtful nature remained after the symptoms of a severe attack of peritonitis in a delicate girl of 30, had subsided. The patient continued to vomit and suffer from great pain and difficulty in defecation She was much emaciated. On opening the abdomen the peritoneum was found studded in numerous places with tubercle. This was verified by microscopic examination of a The mass described was found to consist of portion removed. the small intestine densely matted together in its own coils and adherent to everything around. The mass was somewhat separated from its surroundings, returned, and the abdominal opening closed, with a drainage-tube in the pelvis. She recovered easily and rapidly from the operation, and for a time was much relieved of her symptoms. For a few weeks she was able to dispense with morphia, which she had taken daily up to the time of operation, and the bowels acted spontaneously and She survived the operation six weeks, dying of without pain. This is my second case of tubercular peritonitis exhaustion. simulating ovarian tumor. The other case will be found recorded in the Canada Medical and Surgical Journal for June 1885.

In the two puerperal cases the patients were almost in extremis and the operations were done as a last resort, but without avail in influencing the symptoms. In both the abdominal cavity was opened, washed out, and a drainage-tube inserted. The conditions found were those of intense general peritonitis, with copious exudations of lymph and pus, and infiltration of ovaries,

tubes and cellular tissue with inflammatory exudation. neither was there any encysted collection of the products or inflammatory action or evidence of disease in or about the appendages from which the general peritonitis might have started. In one of the cases there had been persistent right iliac pain during the pregnancy, and the symptoms of the fatal illness began by an aggravation or onis' pain. These facts justified Dr. George Ross and myself in opening the peritoneum in the hope that some condition within the power of surgery to relieve might be found. Puerperal fever was, however, prevailing, and the result of the exploration confirmed the idea that these cases were of septic character. Both patients died within twelve hours of the time of operation, but in neither was death in the least hastened by the ion, so far as an opinion could be formed from the sympta sent when the operation was undertaken, and in one the agouizing pain was at once relieved, an effect which morphia had failed to produce.

The results of exploratory abdominal section for peritonitis, a very recent development, have already proved beyond doubt that many lives may be saved by an operation which in competent hands does not in the least lessen the patient's chances. That peritonitis in the lying-in woman not rarely is of a character and has such an origin that we can occasionally thus save a life has already been amply demonstrated by the experience of Lawson Tait and John W. Taylor of Birmingham, and others. One of Mr. Tait's successful cases I had the good fortune to see and assist at during my stay with him last summer. The kind of case in which we have the best reasons to anticipate success are those of previously existing, perhaps latent disease of ovaries or tubes, such as abscess of the ovary or pyosalpingitis, roused to activity by the process of parturition, and leading, it may be, to general peritonitis. That such conditions not rarely exist was shown by Dr. Grigg, of the Queen Charlotte Lying-in Hospital, in a paper read before the British Gynæcological Society, based on the conditions found in certain autopsies. Other conditions in which the operation is indicated are encysted collections of the products of inflammation in the peritoneum or pelvic cellular tissue. I

believe the time has come when it may with perfect justice be said that in a suitable case of puerperal, pelvic or peritoneal inflammation in which life is threatened, the practitioner is bound to do the operation or have it done for him, and so will save the valuable life of many a wife and mother.

The two hysterectomies recovered, both without any bad symptom. In both I adopted, as in all my previous hysterectomies, the extra peritoneal method of dealing with the pedicie, clamping it with Koeberle's serre-nœud. It is possible, and much to be desired, that "a more excellent way" (as Keith has it) may yet be devised, but that it has not yet been attained is amply proved by a comparison of the experience of Keith, Bantock and Tait by the extra-peritoneal method, with the published results of Schroeder and Martin in Germany by the intraperitoneal method. If ever induced to try the latter method, I shall certainly combine it with drainage of the Douglas' pouch through the vagina after Martin's method.

In 19 of the 35 abdominal sections the drainage-tube was used. It was employed in all cases where adhesions were extensive and oozing surfaces remained, and when washing out was resorted to. In the latter case much sponging to remove the water used was thereby saved, as it was sucked out through the drainage-tube. Of all improvements in the technique of abdominal surgery next to the intra-peritoneal ligature, none has so much conduced to success as the use of the drainage-tube. By its employment operations may often be much shortened and the peritoneum saved much labor in the absorption of effused blood, and the patient's chances of recovery correspondingly increased.

Experience in the use of the drainage-tube is an important factor in the amount of good to be gained by it. In the experience of other surgeons I had learnt much as to the kind of case in which to use a drainage-tube, but not much as to the length of time it must be allowed to remain in the wound. I had never seen any definite rules on this point laid down till I read the remarks of my friend Dr. Bantock in his paper on "A Hundred Cases of Abdominal Section" published in the London Lancet a few months ago. It is possible to remove the drainage-tube much too soon, and I am sure I have seen ill results in my own

practice from this. Since reading Dr. Bantock's paper I have followed his instructions on this point, and with, I believe, signal advantage. These are, in the main, to the effect that the drainage-tube ought not to be removed till the whole amount of secretion that can be removed from it in twenty-four hours does not exceed one drachm of amber-colored serum.

Next to improvements in the technique of abdominal surgery the after-treatment of cases is of prime importance as affecting the patient's prospects. When in Europe last year I found that Mr. Lawson Tait and Dr. Bantock held very strong opinions on certain questions connected with the management of such cases after operation. One of the principal points on which they agreed is the advantage of the avoidance of opium entirely. During the last twelve months I have uniformly followed this example with the exception of one or two instances, and a comparison with my previous experience has thoroughly convinced me that they are right. As a rule, the pain after an abdominal section is mainly at the needle punctures of the abdominal wall, and almost invariably ceases in twelve hours. A dose of opium or morphia will, it is true, relieve the pain, but it dries the secretions, makes the patient clamorous for drink which it is so important that she should avoid for thirty-six hours, it quiets the bowels and so favors accumulation of flatus, and distension, whereas it is all-important that the peristaltic action of the intestines should be kept up, not only to carry off flatus, but to prevent adhesion of coils of intestine to the pedicle, to raw surfaces whence adhesions have been separated, or to the inner aspect of the abdominal wound, which may lead to obstruction. It is more than probable that most of the deaths after abdominal section attributed to peritonitis in recent years have been due to obstruction.

In my work during the year I have given no opium, and invariably, immediately on the appearance of distension, pain or vomiting, I have given enemas and purgatives with the most signal advantage. I am convinced that in my own experience I have thus seen lives saved, besides a vast diminution of the trouble and difficulty in managing the cases afterwards.

I append the following table of the ovariotomies included in the series:—

## OVARIOTOMIES.

NAME, &C.	ORDINARY ATTENDANT.	HISTORY AND SYMPTOMS.	LOCAL CONDITIONS.	OPERATION.	RECOVERED OR DIED.	SCBSEQUENT HISTORY.
E. T., aged 31,	Ğ≸Þ	Menees began at 14; always 'regular. General health good. First noticed enlargement 3 years before operation.	jeneral ahdominal on- lingement; wave fluc- tuation, hulging in flanks, flat in front; howel note not distinct in flanks; girth 80 in, uterus reiroverted. mobile.	Two and a-half inch incision; no addressons; purvarian cyst right side, limpid fluid, favortube spread out over cyst wall; operation complete in 25 minutes.		Recovered. Perfect health.
M. B., aged 69, married.	Dr. Hill, Ottawa.	Mother of several children. Menopause many years ago. General health perfect. No symptoms, hut tumor first noticed 1½ years ago.	Fluctuation in areas: great. enlargement; no tenderness; uterus pushed forward, lying behind pubes.	Multilocular ovarian oys- cloups; few flow weeks; two addresions; tumor is of	Recovered.	Slight cysitiis for a few weeks: two months after operation. a smooth tender swelling in region of pediele slowly disappear d. Otherwise well.
M. C., aged 51, narried.	Referred by Dr. R. P. Howard, Montreal.	Menses hegan at 17; married Fluctuating tumor: 30 years; one child 25 years clear note in flanks; ago; menses essed eight no firm areas; 35 h.; months ago. Pain in left uterus retroverted; lumbar region and first moveahle 3} inches hy signs of tumor one year ago, rapid growth; three months hefore operation measured 42 inches. Was tapped, 25 gallons removed, in Bur- lington, Vt.	Fluctuating tumor: clear note in flanks; no firm areas; 354 in.; uterus retroverted; moveahle 3½ inches hy sound.	Unilocular cyst of left Recovered. Perfectly well. ovary; no adhesions; very hroad pedicle; ligatured in sections; a small dermoid cyst aitached to base of large; tunor.	Recovered.	Perfectly well.

# OVARIOTOMIES—(Continued.)

SUBSEQUENT HISTORY.	Recovered. Recovery from operation rapid and perfect; great relief from pain; no morphia needed for some weeks.  Died three months after from cancer of rectum.	Recovered. Perfect health.	. Perfect health.	Recovered. Perfect health.
RECOVERED OR DIED.	Recovered.	Recovered.	Recovered	Recovered
OPERATION.	No adhesions: favorable pediole; multilocular oyst of left overy, jelly-like contents. In Douglast Jouch the induration felt, evidently malignant disease of the rectum.	Multilocular cystoma of left ovary; omental adhesions, grumous contents; favorable pedicle. Three ligatures to omentum: right ovary size of removed.	Large quantity peritoneal Recovered. Perfect health. fluid; multilooular cystomen left ovary; comen left ovary; comen left ovary; comen left ovary; concable pedicle; right ovary cystic and enlarged, also removed.	Multilocular cystoma left ovary: no adhesions: favorable pediole; right ovary size of pullet's egs and cystio, also removed.
LOCAL CONDITIONS.	Nodulated, firm tumor springing from left safe, extending from pubes to within 2 in of lower rines in parks elastic feel; uterus moveable; marked in cul-ide-sac and rectorul-ide-sac and rectorul-ide	Abdomen enlarged. 324 inches; uneven fluctuating areas; uterus retroverted, prolapsed and moveable.	Abdomen very large, 45½ inches, uneven, areas; cedema of bypogastrium; uterus retroverted, prolapsed, and moveable.	Elastic, uneven condi- tion of abdomen, 35 Uterns retroverbel sensitive, moveable body felt in Douglas' pouch; tapped two months before opera- tion.
HISTORY AND SYMPTOMS.	Menses began at 12; ceased four years ago, Never pregnant. Is much emeniated and sailow; severe abdominal pain, rectait tenesmus and muin. Sir mouths ago first noticed lump in 16th line, region. Steady ingrease of size, with pain. Full doses of morphia for six weeks.	Menses began at 11; always regular, profuse. Married three years, one child 22 months ago. First noticed tumor in left like region 12 months ago, steadily increasing; dysuria last 18 months.	Menses began at 15, Married 14 years: five pregnancies, last Il months ago. Menses now regular. First noticed tumo: Sept. 1834, on left side. Tapped four times, once during last pregnancy two weeks hefore labor.	Menses began at 16; at first scanty, of late profuse and protracted leuorrheat; pain in hips. Never pregnant. In Jan. 85, diagnosed a pelverant unnor. No alloninal enlargement fill Jan. 87, Rapid enlargement in Jan. 87, Rapid enlargement.
ORDINARY ATTENDANT.	Dr. Jsmes Bell, Montreal.	Dr. G. McGannon, Brockville, Ont.	W. G.	Dr. Beckstead, Lisbon Centre, N. Y.
NAME, &C.	C. M., aged 53,	M. B., aged 29, married.	M. I., aged 39, married.	H. S., aged 30, married.

	,	
Perfect health.	Recovered. Perfect health.	Recovered. Recovery was fairly rapid, interrupted by sentic fewer. In third week poly-urra, 6 to 7 pints urine daily; great thirst; enormous appetite. Returned home 6 weeks after operation; general and local conditions excellent; 2 nonths later signs of recurrance; a month later inneh emediated; sinking fast; recurrance of growth. faceal face is at lower end of abdominal in-cision; is dying.
Recovered	Recovered.	
Multilocular cystoma of Recovered Perfect health. left own; universal an- terior parietal adhesions. Three ligatures to bleed- ing points; drainage- tube.	No adhesions; cyst wall ladar colored; podicle funited and colored funite and adult's head; contents papillomatous growths papillomatous growths which is unifocular, and of Tight own; left oway a mass of cysts and of size of pullet's egg, also perivis, dramage-conte	Desperately severe operation, addressors to inter- tions, addressors to inter- tions, despension and to part of tumor a friable mass, in which neither ovary nor funds of the ttens is distinguishable. After emuclation for tumor, the operation fin- sished by ofamping corvix uteri and bringing it out at lower angle of abdomi- na i incision. The tumor, a sarcoma with dermoid elements. Washing out and drainage.
Uniform enlargement; general functuation; distinct wave. Uterus retrovered, prolagsed. Tumor distinct in pel- vis; girth 404 inches.	Tumor is tense, elastic, insensitive, moveable, entirely below unbilicate out at uterus anteflexed, pressed down in front of tumor.	Irregular, nodular, sensitive tumor extending up right side of abdonen from pelvis to hypochondrium, very slightly moveahle; in phose sensito, semi-fuctuating; floor of pelvis indurated; os uter pushed forwards and to right side; porticy-aginalis obliterated by collar-like induration aread by collar-like induration around it.
Menses hegan at 11; always   Uniform enlargement; regular. Married (way ogar); general fluctuation; never pregnant. Noticed distinct wave. Uterus enlargement four months pertovered, probapsed, after marriage a good Tumor distinct in pelayear. Two et appead during last three months.	; is quite saith till attack ill attack right illac a months; go tumor ight illac eved by inches.	Menses began at 13. One child I year old; suckled ten months. Menses returned at six months; regular till seven weeks helore operation. First noticed a lump in right line region 3 mos. ago; steady growth; much pain, riritation of hadder; constipation, pain and difficulty in defeation; great wasting, weakness; pulse 90-100; in bed for 2 months.
Dr. Ball. Stanstead, P.Q.	Dr. Vaux, Brookville.	Dr. James Bell, Montreal.
J. B., aged 18, married.	M. C., aged 25, unmarried.	M. D., aged 20, married.

# OVARIOTOMIES—(Continued.)

Subspacent History	Three and a half months later, seen and examined; is undoubtedly preg- nant; 28th Aug- 1887, daily expect- ing confinement at full term.	Recovery was tedi- ous, but seemed to be complete, when (slowly and with severe pain) an abseese developed in right iliac re- gion. Opened by abdominal section. Complete recovery
RECOVERED OR DIED.	Recovered.	Recovered
OPERATION.	Parietal, pelvic and omen- tal adhetions; a dermoid cyst of left owary; long slender pedicle, iwisted three times around its axis; contents areamy, dark-colored, contains dark-colored, contains hair almost black; right hair almost black; right hair almost black; right also removed; wash out, also removed; wash out, drainage; uterus some- what enlarged, soft, and of dark-red color.	Abdominal wall thick, 14 Recovered. Recovery was teditudes fair rigid omentum, adherent to lower turn, adherent to lower attachment, containing attachment, containing clear, amber-colored fluid in right lifas reveil by pered but of read absects developed clear, amber-colored fluid in right lifas reveils produced but of read attachment and read of road attachment and nature of contents:  Complete recovery as teditor, but seemed to be complete, when with the contents and attachment and abdominal section. Opened by a contents:  Complete recovery as teditor, but seemed to be complete, when with the complete recovery and a contents:  Complete recovery as teditor, and with the complete recovery and the contents and t
LOCAL CONDITIONS.	A thin-walled, fluctuating cust size of a child's head, quite tender; uterus fixed, retroverted, quite tender.	Anæmic, fat, weak Aperson; dowing continuously; pains in this, left legand thigh. The voiss of left legand thigh distended, warfose; during last six months moderate enlargement of aboomen; feels solid thro' the thick rigid parietes; uterus fixed.
HISTORY AND SYMPTOMS.	Began to menstruate at 19. A thin-walled, fluctual Married eight years; four ating cyst size of a pregnanties to full term. child's head, quite last 14 months ago, suckled tender; uterus fixed, after weaming; four months der ergion; three weeks ago, after a welk ago, first noticed a lump in left iliae region; three weeks ago, after a walk, andden severe pain, yomiting, fever, retention of urne, constitution; ill doses of morphia up till time of operation.	Married 13 years; before marriage menses irregular, last three years profuse, especially last six months.
OBDINARY ATTENDANT.	Dr. Molson, Montreal.	Dr. Molson, Montreal.
NAME, &C.	Mrs. S., aged 31,	M. G., aged 38, married.

feriect nealth.	Recovered On remov.; of drainage-tube abd drainage-tube abd drainage-tube abd and and fever; pain and fever; for a few months; silk ligatures came away, complete recovery after some months.	Recovered from operation, but recovered was and dealt eleven weeks after operation.	Recovered, Good health.
Recovered, 1	Recovered.	Recovered, Recovered operation, currence an eleven wee operation.	
withlocular cystoms of I's heard of a heaions; adhesion of rechesions; adhesion of rechum to pedicle, pedicle, podicle, proad; ligitared in sections; right ovary enlarged and cystic, relarged and cystic, relarged wash out and drain.	Multilocular cystoma of fet tovery; na adhesious, favorable pediole; right overy cystic, enlarked, size hen's egg. removed; bledding from rent in fight broad ligament; after lighture, oozing; drainage-tube.	Desperately severe opera- finior; tunor solid, very friable, inoke down dur- ing removal; adhesions toparietes, omenium; in- testines and pelvic struc- tures proceding. from right course and involv- right corner of uterns; wash out and drain; showed sarrounations	Uterus extirpated by vagina. After its removal a cyst of the size of an orange also removed; found to be dermoid.
Uniform. fluctuating light enhancement, 384 in.; firm areas and frabecines; utcns retroverted, fixed.	Uneven enlargement of shotomen; fluctua- tion in areas; uterus retroverted, lies on floor of pelvis.	A rounded, firm, tender tumor size of a child's head; uterus not very movesble, retroverted.	Uterus enlarged and retroverted; cervix healthy.
Began to menstruate at 11; Uniform, fluctuating Multilocular cystoma of Recovered Ferfect health.  married 9 years; five pregenent, 39; in; left ovary; anterior administration of mession of resonancies, last 20 months ago: marries and trabel to petide, podicible regular last five months: verted, fixed.  months ago: rapid increase contains a proper cont	Z	Menses ceased 4 years ago, der tumor size of a healthy till 3 years ago, der tumor size of a when healt the years ago as mall not very moveable, repion, Severe pain last few months. Steady increase of size.	Menses coased five years ago. A few months later, a constant thin, pinkish discharge, which has never ceased.
M. V., aged 33, Dr. Geo. Ross, married. Montreal.	N. C., aged 22, Dr. J. Stephenson, unmarried. Iroquois, Ont.	A. S., aged 43, Dr.A.D. Blackader, unmarried.	W.G.
M. V., aged 33, married.	N. C., aged 22, unmarried.	A. S., aged 43, unmarried.	M. A., aged 57, married.

