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In placing this subject before you, I have found it necessary to prepare three tables, as follows:

1. True Porro's operations;

2. Utero-ovarian amputations performed during pregnancy, but before the fœtus was viable;
3. Operations for removal of fœtus from abdominal cavity by

laparotomy, followed by amputation of ruptured uterus, with ovaries. (For the tables, see pages 8-20.)

My object in making this arrangement has been to classify the several operations under their respective headings, and not to mix them all together under one title, as has been done, causing much confusion, and great variation in the tables which have been prepared by different authors. So much was this felt by Dr. Robert Harris of Philadelphia, whose name is well and honourably known in connection with Porro's operation, from his writings thereon, that he felt it necessary to write a special article, entitled "Does the Removal of a Fœtus by Abdominal Section after a Rup-ture of the Uterus constitute a Cæsarean Operation; and is it proper to classify this Form of Delivery with Gastro-hysterotomy, which has a different Degree of Mortality, both as regards the Mother and Fœtus?" It is at once evident that these inquiries must be replied to in the negative. I would supplement this with another question, applying to Table II: Does the removal of a large abdominal tumour, together with the uterus containing a fœtus which has not reached a viable period, constitute a "Cæsarean operation?" and is it proper to classify this with an operation which is performed for the delivery of a viable fœtus which could not be extracted living, or even be extracted in a state of mutilation, without the greatest possible risk to the life of the mother?

I do not hesitate to say that these are operations widely differing; and that they should not, therefore, be classified together.

What, then, is a true Porro's operation? It may be thus described: Casarean section, followed by removal of the uterus, together with its appendages, including the ovaries, leaving only the cervical portion of the uterus.

This operation has received a variety of names. Professor Porro himself thus designates it: "Utero-ovarian amputation as a mode of completing the Cæsarcan section." Other titles are, "Cæsarcan ovaro-hysterectomy," "Cæsarean hystero-ovariotomy," and "Cæsarean

hystero-oöphorectomy.

History .- The first to arrive at the conclusion that recovery might be expected to follow the removal of the gravid uterus, with its contents, was Dr. Joseph Cavallini, who in 1768 published in Florence a paper entitled "Medico-chirurgical Experiments on the successful Excision of the Uterus in certain Animals," etc. He describes several experiments on dogs and sheep; amongst them, one on a dog in which he removed the uterus containing nine puppies. He ends by saying: "All which things having been duly weighed, I do not doubt that the uterus is not at all necessary to life; but, whether it may be plucked out with impunity from the human body we cannot be certain without a further series of experiments of this kind, which perhaps a more fortunate generation will obtain.

Dr. G. P. Michaelis of Marburg incidentally suggested the question of amputation in the year 1809. In a foot-note to an account of a case of Cæsarean section published by him in Siebold's Lucina in that year. he defends the use of large doses of opium in his treatment, on the ground that the violent reaction is the great danger. He points out that when, in ignorance, the uterus has been cut away, this reaction has been much less; and adds: "It is, indeed, a question whether the Cæsarean section would not be made less dangerous if with it were combined the extirpation of the uterus, an organ which is, after all, under such circumstances (as those, namely, which demand the Cæsarean section), nothing but harmful."

Dr. James Blundell, in his lectures at Guy's Hospital in 1828, says: "In speculative moments, I have sometimes felt inclined to persuade myself that the dangers of the Cæsarean operation might be considerably diminished by the total removal of the uterus. Perhaps this method of operating may prove an eminent and valuable improvement." (*Lancet*, vol. ii, p. 167, London, 1828.) Out of four rabbits on which Dr. Blundell operated, three recovered, whilst the fourth died from the slipping of the ligatures.

Feser, in 1862, after uterine amputation, saved two bitches out of four. These experiments on animals were followed by those of Fogliata of Pisa, Porro of Pavia, and Rein of St. Petersburg. But in 1869 the gravid uterus was for the first time amputated in a living woman; Dr. Horatio Storer of Boston, U.S.A., being forced into the operation as the only means of arresting the severe hæmorrhage occurring, during Casarean section, from an uterus with a fibrocystic tumour. The patient had been three days in labour with a putrid fœtus in utero. She died sixty-eight hours after the opera-tion. (Journal of the Gynæcological Society of Boston, vol. i, No. 4.)

The first premeditated utero-ovarian amputation, in connection with Casarean section, was performed by Professor Porro, then of Pavia, now of Milan, on May 21st, 1876. The lives of both mother and child were saved, thus establishing a claim for the serious consideration of this operation as a substitute for the ordinary Cæsarean section. In 1876, Professor Porro published his memoir, Della Amputazione Utero-Ovarica come Complemento di Taglio Cesareo; and the operation has from this time been commonly known as "Porro's operation." The proposal was received generally with disfavour; shortly afterwards, however, the operation was undertaken by Inzani of Parma, Hegar of Freiburg, and Previtali of Bergamo. As in each of these cases the patient was, at the time of operation, in an almost hopeless condition, in none of them was the result successful. Nothing daunted by these failures, Professor Spath of Vienna, and his colleagues Professors Carl Braun and Gustav Braun, recognising the value of the procedure, and knowing well the fatality of the old Cæsarean operation in their country, as elsewhere, determined to adopt it. The first opportunity occurred in June 1877, when Professor Spath undertook the operation (June 22nd) in the case of a woman, aged 40, the subject of malacosteon. She had been twenty-four days under preparation in the hospital, and made an excellent recovery. From this time, rarely has more than a month or two elapsed without the operation having been performed in some locality; so that I am enabled now to bring before you a table containing 138 true Porro's operations. A considerable number of these have never been published. I have spared no time or pains to make the table complete. I have sought information from almost every operator, and certainly from every school in which there was a likelihood of the operation having been undertaken. I have derived much assistance from Dr. Peruzzi of Lugo, who very readily undertook to obtain for me all that I needed in respect to the Italian cases; and from Dr. Harris of Philadelphia, who had, at the cost of much labour, published in the American Journal of Medical Sciences, 1880, a table of the first thirty-six cases, the arrangement of which I have followed in my tables, simply adding one or two further details which have appeared to me of much importance. Dr. Harris has also by his subsequent publications, and by direct information to me, given me the clue to a large number of the more recent operations. It would be impossible to mention all those who have afforded me information; the references in the tables will, however, point to the majority of these. I now proceed to give the history of my own case.

The subject of my operation, Clara J. S., was 24 years of age. In general formation she is dwarf, her hands and feet not being larger than those of a child eight or nine years of age. She appears to inherit her diminutiveness from her parents. Her mother, though well-formed, has almost equally small hands, and is only 4 feet 84 inches in height. Her father is also spoken of as a very small man, and one sister as being very short. Clara S. was born on November 9th, 1858. When four years of age she was run over in the streets by a dray, the wheels of which passed over her body. She was immediately conveyed to Guy's Hospital, and was admitted under the care of Mr. Arthur Durham, to whom I am indebted for the following information.

"Clara S., aged 4, admitted to Dorcas Ward March 20th, 1863, run over in the street. The pelvis was found to be smashed, and the child was apparently in the most hopeless condition. However, she

¹ Contribuzione allo Studio della Amputazione dell' Utero negli Animali Domestici: Osservazioni Cliniche e Sperimenti fatti nella Scuola Zoojatrica della R. Univerzita di Pisa.

rallied; suppuration took place; and I removed the pubic bone of one side, with other fragments, and the tuber ischii and other portions of bone of the other side. She was not expected to live for some days before the operation; but, after it, she recovered without any bad symptom whatever. The exact amount of bone removed I cannot specify, but there was what I have stated, and several fragments. The child was discharged on August 2nd; the wounds were then all healed."

The mother of the patient stated that her child remained in Guy's Hospital nearly a year, where sixteen pieces of bone were removed from the privates at three or four operations. She began to walk, when about twelve years old, on crutcher, previously having been wheeled about in a perambulator. She now walked without assistance. There was no trace of any rachitic deformity. The spine presented the natural curves, except in the lumbar region, where the anterior curve naturally found in this situation was considerably increased. The sacrum appeared to be displaced backwards at its junction with the last lumbar vertebra, and thus the gluteal region was thrown into a very unnatural prominence. The coccyx was articulated at about a right angle with the sacrum. The gluteal region on the right side was much more prominent than that on the left. On the latter, no tuber ischii could be felt. The left hip-joint was ankylosed, the femur being placed at a little more than a right angle with the trunk. On account of this deformity, the patient could only walk by leaning forwards and resting on the tips of the toes of the left foot, the pelvis being at the time rotated downwards towards the same side. The muscles of the left lower extremity were much less developed than those of the right, but the bones appeared to be of equal length. The lumbar and sacral regions were covered with old scars, some adherent to the subjacent bone, and said to be the result of bed-sores which followed the accident. There was also a large scar over the upper part of the left femur, and a smaller one over the great trochanter on the opposite side, in which situation an opening was said to have discharged until she was nine years of age, when menstruation began. Ever since the accident, there had been a thick yellow discharge from the vagina. The height of the patient was 4 feet 4 inches; her weight (not during pregnancy), 5 stone 4 lbs. The pelvic measurements were as follows:

 Between iliac spines
 53 inches.

 Between iliac crests
 64 ,

 External conjugate (D.B.)
 43 ,

 From lower border of symphysis to tip of coccyx
 34 ,

 Bisischiatic
 about 1 ,

 Conjugata vera
 11 ,

The chart will show the pulse, temperature, and respirations from that date. The urine was of specific gravity 1015, acid, containing mucus but no albumen. The chest-sounds were natural, except puerile breathing, with intensified expiratory sounds on both sides. The bowels were kept well relieved with castor-oil; and on the morning of the 27th, the day for which the operation had been fixed, an enema of soap and water was administered. No food, except half-an-ounce of beef-essence at 8 a.m., was given. The patient was placed on the operating-table at 2.30 p.m. There were

present as spectators Drs. Matthews Duncan, Greenhalgh, and Burchell; Messrs. Alfred Cooper, Walter Griffith, Gripper, Vogan, and Dagg. Nitrous oxide gas and ether were administered by Mr. Mills. Dagg. Nitrous oxide gas and ether were administered by Mr. Mills. Mr. Knowsley Thornton kindly undertook to assist me. Mr. Mason took charge of the instruments, and was prepared to receive the child. The abdomen was first sponged with carbolic acid solution (1 in 40), the carbolic spray turned on, and after passing a catheter, to be sure that the bladder was empty, and to note its exact position in the abdomen, I commenced my incision. It extended from just below the umbilicus to about two inches above the symphysis pubis. A few parietal vessels were secured by Spen-cer Wells's pressure-forceps. The uterus being exposed, its anterior surface was noticed to be very livid in appearance, suggesting that the placenta was attached to the anterior wall; and therefore I made, as low down as possible—that is, at about the junction of the lower with the middle third-a small incision just large enough to admit the finger; a gush of venous blood occurred, and the membranes were seen. I immediately inserted the tips of each forc-finger, and tore the womb open transversely. There was no resistance. The mem-branes were not suptured by this manipulation; therefore, knowing the exact position of the fœtus, I thrust my hand through them into the right iliac region, and, seizing the neck, without difficulty extracted the child. As it did not at once show signs of vitality, I dashed some of the carbolised water, in which the instruments were, over its face and chest, and it almost immediately cried lustily. I then tied the umbilical cord in two places, divided it, and handed the child over to Mr. Mason.

While I was thus engaged, Mr. Thornton had slipped his left hand into the pelvis so as to grasp the neck of the uterus and control hæmorrhage, and then, while holding the uterus with the left hand, applied the wire of Kæberlé's serre-næud with the right, so as to include both ovaries and tubes, as well as the uterus at about the level of the internal os. The wire was then tightened, and the uterus, with the contained placenta, cut away with scissors. There was almost no bleeding; a sponge among the intestines came out unstained, as also another passed into Douglas's pouch. Solid perchloride of iron was then applied to the raw surface of the stump, two guarded pins were passed through it above the wire of the serre-næud, and a strong silk ligature was placed beneath them for greater security. The edges of the lower part of the abdominal wound were drawn tightly round the pedicle, and brought together by a single China-silk suture below it, while eight or nine similar sutures were employed to bring together the peritoneum and abdominal parietes above. Carbolic gauze dressing was applied, and a flannel bandage put on over it. The patient was then placed in bed.

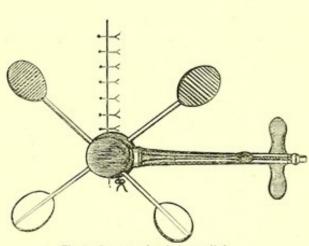


Fig. 1.—Serre-nœud and pins applied.

The child, a female, was unusually large, weighing eight pounds and a half, and measuring twenty inches in length. She was vigorous and well nourished. The time taken in the several steps of the operation was as follows:

CIMETON WHO HO LOND !		
Abdominal incision commenced	2.48	P.M.
Child removed and cord tied	2.56	
Serre-næud applied	2.58	
Stitching of abdominal wound begun	3.8	**
,, ,, ended	3.30	**
Patient placed in bed	3.45	,,

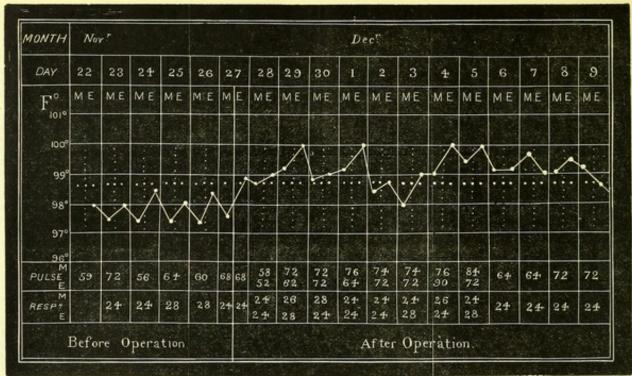


Fig. 2.-Daily record of temperature, pulse, and respiration.

In giving a brief outline of my patient's progress, I may say at starting that her temperature at no time exceeded 100° Fahr., nor her pulse 94, as the accompanying chart shows.

Immediately after the operation, 20 minims of tincture of opium were administered by rectum, and this was repeated at 6 P.M. There was no sickness, except a little frothy mucus, while she was recovering from the anæsthetic. She had no pain or discomfort of any kind. The skin was very moist. At 8.30 P.M., a catheter was passed, and six ounces of urine were drawn off.

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November 28th, 1.30 A.M. Three ounces of urine were drawn off.

2 A.M. Twenty minims of laudanum were given by the rectum.
9 A.M. She had had a good deal of sleep during the night, and felt comfortable. The draw-sheets and binder were removed, being saturated with urine. She had taken nothing but iced water since the operation, except occasionally a very little iced milk.

2 P.M. The draw-sheets were again found saturated, and were changed. Twenty minims of laudanum were given per rectum;

after which she slept for three hours.

5 P.M. The wound was dressed under spray. No dressing was changed except that immediately surrounding the pedicle. The wire of the serre-næud was tightened. A small sinus was noticed in the fold between the left labium majus and the thigh, discharging urine. The catheter passed into the bladder only drew off an ounce and a half of urine, the rest having evidently escaped through the fistula. The patient stated that her urine had escaped through this opening more or less during the last four months. It was decided to keep a catheter in the bladder continuously; I therefore inserted one made of celluloid, with an India-rubber tube attached, which communicated with a vessel placed beneath the bed. I ordered the tube of a Higginson's syringe to be passed into the rectum, and to be left there for ten minutes, three or four times a day, to allow flatus to escape.

9 P.M. The patient was placed on a water-bed, as I feared bed-

sores from dribbling of urine.

11 P.M. An ounce of essence of beef and 15 minims of tincture of

opium were administered per rectum.

November 29th, 7.30 A.M. The patient suddenly complained that she could not see, and immediately afterwards fell into a state of eclampsia, bit her tongue, and was convulsed in all her limbs.

eclampsia, bit her tongue, and was convulsed in all her limbs.

8.10 A.M. Mr. Mason arrived, and found the abdomen distended: the tube was therefore passed into the rectum. A considerable quantity of flatus escaped. Immediately afterwards, she again complained of loss of vision, and was again convulsed. She bit her tongue so that it bled. She became very livid. The fit lasted about a minute, and was followed by stertorous breathing. The muscles of the abdomen

participated in the spasm, and some more flatus was expelled. The rectal tube was removed before she recovered consciousness.

9 A.M. I found her, on my arrival, quite sensible, and very anxious about her blindness. She could not discern my finger placed close to her. The urine gave no trace of albumen.

10 A.M. Essence of beef, with 20 grains of chloral-hydrate and 20 grains of bromide of potassium, was administered per rectum. A tablespoonful of milk was ordered to be given every half-hour.

2.30 P.M. Dr. W. H. Collins made an ophthalmoscopic examination, and reported as follows: "Media clear, pupils equal, tension normal. Fundus of each eye very grey and anæmic; outer zone of discs rosy, inner zones abnormally pale. No evidence of embolism whatever; in fact, there is present only the functional condition likely to be found in epileptic amaurosis." It is worthy of note that the patient had never, on any previous occasion, had an epileptic attack.

4.15 P.M. Bread and milk was given, and much enjoyed. Sight was improving. The rectal tube was passed; much flatus escaped.
6 P.M. Beef-essence, with 15 grains each of chloral-hydrate and

bromide of potassium, was administered per rectum.

November 30th, 5 A.M. The enema was repeated; she slept four hours after it.

10 A.M. The wound was dressed under spray, and the wire of the serre-næud tightened. She could now see quite distinctly. I ordered that the chloral and bromide of potassium should be discontinued, and that 2 minims of liquor atropiæ and 10 minims of liquor morphiæ hydrochloratis be given by the mouth in an ounce of water every four hours.

December 1st. She slept very well during the night. She had taken two quarts of milk, with occasionally some bread in it, and a

pint of beef-essence, during the last twenty-four hours.

December 2nd. The mammæ were greatly distended, the left one especially. I ordered belladonna-plasters to be applied to them. During the last twenty-four hours, she had passed sixty-four ounces of urine through the catheter.

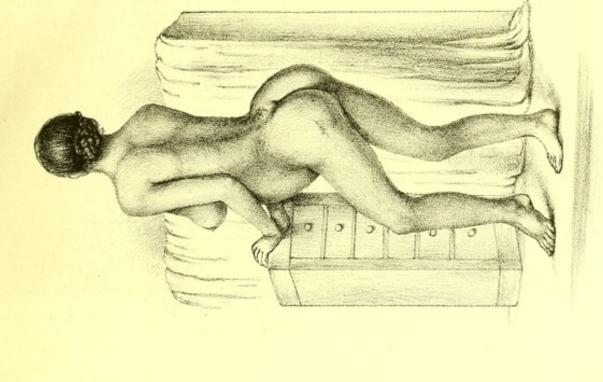
5 P.M. She complained of cutting pain in the bladder. The

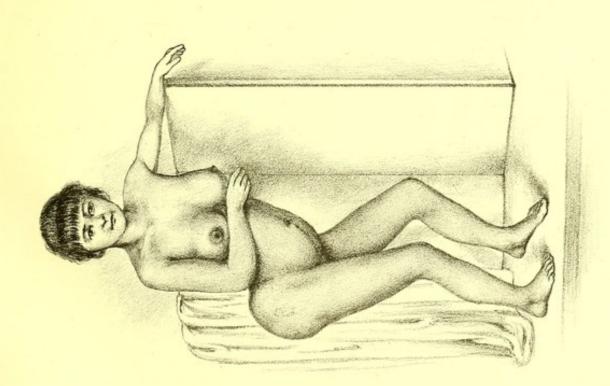
catheter was removed.

December 3rd, 11.30 A.M. The wound was dressed under spray. The whole of the dressings and plaster were removed. The serrenæud was tightened. The abdominal wound was quite healed. There was no redness. The catheter was replaced in the bladder.

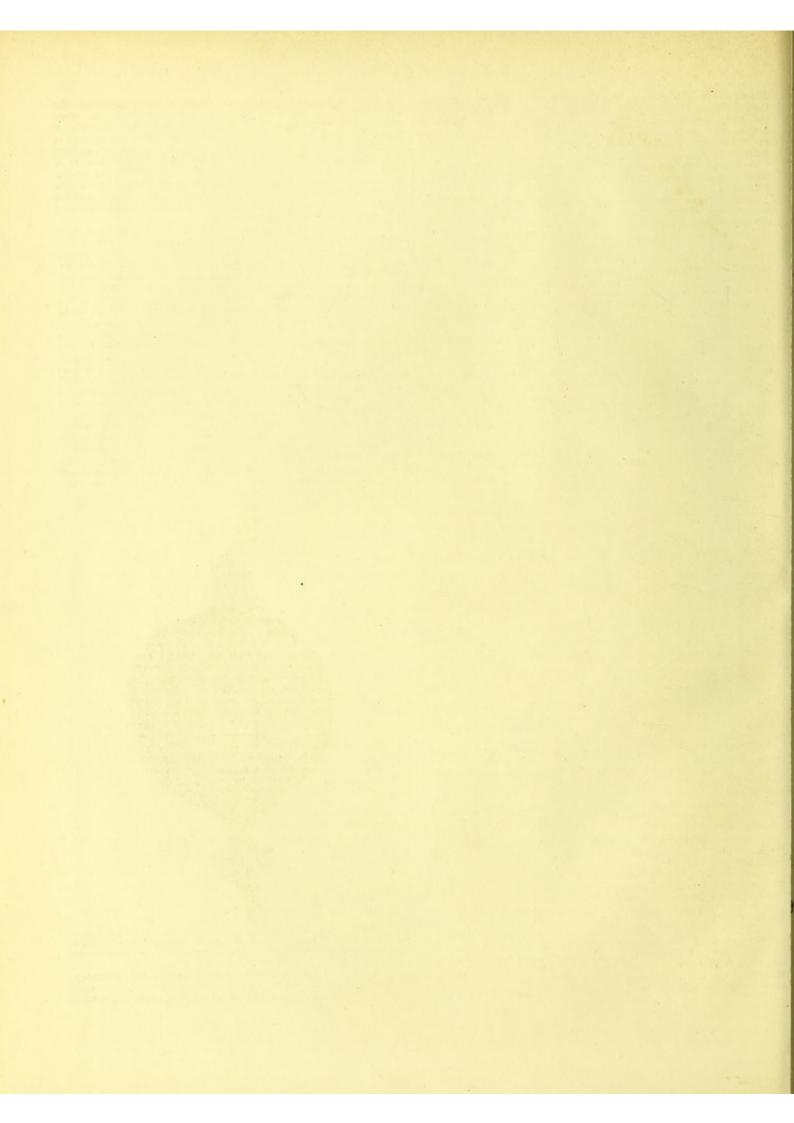
December 4th. An enema of soap and water was given. A large solid motion passed.

December 5th. The wound was dressed under spray. All the stitches were removed except the one below, and the one imme-





Clara J. S. aged 24. (From Photographs) after Porro's Operation, performed by Dr. Godson, on Nov'r 27th 1882.



diately above, the pedicle. The serre-næud was slightly tightened. One of the pins was removed because it pressed uncomfortably on the lower abdomen, and it was thought that a single pin would answer every purpose. Strips of adhesive plaster were placed across the abdominal wound for support. The patient took some fish for dinner.

December 6th. An enema of soap and water was given, and a copious solid evacuation followed. For dinner, she had some

pheasant.

December 8th. The wound was dressed under spray. The pedicle was almost detached. The sulcus around it was carefully swabbed out with cotton-wool soaked in carbolic lotion.

December 9th. The bowels were well relieved after an enema.

December 10th. The wound was dressed under spray. The serrenœud was found detached, and was removed. The two remaining sutures were taken out.

December 11th. The catheter was removed, no urine having flowed

through the sinus for the last three days.

December 17th. The sulcus had been cleansed daily. Urine had been passed naturally; none through the sinus, which was quite

healed. The patient was lifted on to the couch.

December 28th. The abdominal wound measured four inches to below the sulcus. The depth of this was an inch and a half. All discharge had ceased. The patient could walk without discomfort, and to-day left the lodging. She was ordered to wear a belt.

On August 1st of this year (1883), I had an opportunity of seeing her. She appeared in perfect health, and said she had never felt better in her life. She has lost the vaginal discharge. She has not menstruated. The abdomen shows hardly any scar, and no depression where the pedicle was placed.

REMARKS.—The details of this remarkably successful case strongly impress one with the advantages to be gained by Porro's operation; and yet, looking at the table, and taking from it the results, the first idea will probably be not altogether favourable; for, out of the 138 operations, 77 deaths are recorded against 61 recoveries.

In comparing these results with those of the old Caesarean operation, I would call attention to the following astounding facts. In the Vienna Hospital, for a hundred years, there had not been a recovery after a Cæsarean section; whereas recently, in three cases of Porro's operation performed in one week by Professor Carl Braun, the whole of the patients recovered. In Italy, the old Cæsarean operation was almost always fatal. Professor Chiara, of Milan, writes that, out of 62 cases operated on by Porro, Lazzati, Billi, and himself, only 3 recovered. On the other hand, nearly half (23 out of 53) of the Porro's operations have been successful, notwithstanding that the operation has been performed by as many as thirty-five different surgeons. Again, up to May 20th, 1879, when Professor Tarnier performed his first Porro's operation at the Maternité in Paris, every Cæsarean case had proved fatal there since 1787. The condition of his patient was most unfavourable, nevertheless, she recovered. In our own city, I know that my late colleague, Dr. Greenhalgh, performed Casarean section ten times, with only one recovery; while I have myself seen it performed by four different operators, every case proving fatal. In Prague, Professor Breisky has performed Porro's operation four times; in each case the woman has recovered, and the child has been saved.

The advantages claimed for Porro's operation over the old Cæsarean

section are these.

1. The uterus being removed, and the stump of it being outside, there is no danger of bleeding within the peritoneum, or of exudation of lochia, as before, through the incised uterine wall. At the time of operation, the risk of hæmorrhage is much less; for, as soon as the cervix is constricted, it ceases, and this may be very promptly done.

 Should bleeding occur from the pedicle, being outside it is under control—an advantage which is, however, sacrificed by the

intraperitoneal method.

3. The uterus and ovaries having been removed, the dangers arising from a subsequent pregnancy are avoided.

I now pass to the several steps of the operation.

1. It is well to pass a catheter, to determine the exact position of the bladder.

2. Incision through the Abdominal Parietes.—This, in respect to the length of the incision, brings me to speak of what is known as Müller's modification. At his first operation, February 4th, 1878, Müller conceived the idea of bringing the uterus outside the body, and constricting its base with a provisional elastic tube before opening it, so as to avoid any hæmorrhage from

the cut surface, and to prevent the escape of liquor amnii into the peritoneal cavity. Should the fœtus be putrid, as in his case, there is no doubt that this method offers advantages; but, otherwise, it appears to me to be unnecessary as far as the risk of hæmorrhage is concerned, which, by skilful manipulation, can be quickly controlled when opening the uterus in situ; while, on the other hand, it is certain that the larger the incision, the greater the risk to the patient, and Müller's modification cannot be effected without a long incision extending considerably above the umbilicus. This explains why, as will be seen in the tables, Müller's method was attempted in several cases, but was relinquished.

3. Incision into the Uterus.-It has been recommended that careful auscultation should be practised beforehand, in order to determine, by the uterine bruit, the situation of the placenta. Radford says: "The audibility of the placental southe directs us to investigate the quarter whence the murmurs proceed; and, by attention, we may nearly always assure ourselves in what vicinity of the uterus the placenta is fixed. If this sound be not heard, we have a right to conclude that this organ is not within reach of the knife, if the infant be still alive." Now, I have no hesitation in saying that this is fallacious. On several occasions, not only I, but others, listened in my patient for the uterine souffle; it was inaudible, and yet the placenta was attached entirely to the anterior wall, and to no other part. In other cases, where the souffle has been heard in front, the placenta has been found attached to the posterior wall. The appearance of the exposed uterus is certainly indicative. made my incision as low as possible, because of the purple or livid hue that it presented, and I only just escaped the attachment of the pla-centa. My method of opening the uterus was a novel one, and I see no reason why it should not be always adopted. First, as to its situation and direction; it was just above the internal os and transversely. Here the incision is more likely to gape readily, to be out of the way of the placenta, and to be within immediate access of the neck of the Then the tearing is effected very rapidly, and with less likelihood of bleeding than by cutting.

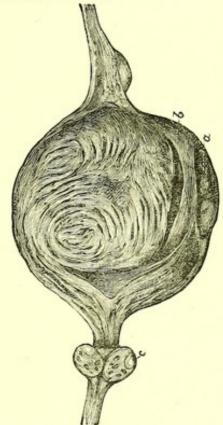


Fig. III.—This drawing shows the placenta (a) still attached to the anterior wall and partly extruded by the contraction of the uterus after delivery; the rent (b) in the anterior uterine wall, through which the foctus was extracted; and the corpus luteum (c) in the right ovary.

 Extraction of the Child by the neck seems to offer advantages over that by the lower extremities, for the uterus has been known to contract round the after-coming head, causing great difficulty in its extraction. This is, however, not a matter of great mo-

5. Management of the Placenta .- In many of the cases tabulated, the placenta was removed before the separation of the uterus. appears to be not only unnecessary, but to offer great disadvantages, by occasioning loss of time, and by favouring the occurrence of hæmorrhage.

Management of the Pedicle.—This is perhaps the most important step of any in the operation. The first division must be between

the extraperitoneal and the intraperitoneal treatment.

We will take the intraperitoneal first, and shortly dismiss it. Professor Isaac Taylor, of New York, adopted it in his operation of April 8th, 1880, believing that hitherto the pedicle had been always kept out. Professor Taylor had not heard of Professor Veit, of Bonn, having, on March 21st (eighteen days previously), dropped the pedicle in, as is shown from his paper in the American Journal of the Medical Sciences, July 1880. Both women, however, died, although, in each case, the prospects were favourable before the operation. And, in respect to this mode of treatment, I shall merely say that it will be seen from the table that, out of thirteen patients on whom it was practised, no fewer than ten died, while one of the remaining three had a protracted convalescence from pleuritic complication, and was seriously ill when last heard of. It is only fair to add that the operator, Dr. Kabierski, jun., attributed this to catching cold, and not to septic causes. However, those who have had large experience in hysterectomy, have found similar unsatisfactory results from dropping in the pedicle. There is no doubt it is the success of this method in regard to ovarian operations, that has incited surgeons to attempt it in uterine amputations. There is a wide difference, however, in the structure and situation of the pedicle, which accounts for the difference in the results.

The methods that have been employed in securing and treating the pedicle outside the abdomen have been very numerous; and undoubtedly the success or failure, recovery or death, has depended, in great measure, upon the plan adopted. It is, therefore, most important to determine, if possible, which is the best. Porro used Cintrat's constrictor, leaving the whole apparatus on under the dressing. This plan has been pretty generally followed in Italy, though some have merely employed the instrument to tighten the wire ligature, removing it directly afterwards. Chiara left it on only in his first operation, and writes to me that it is a very bad plan. Mangiagalli informs me that he shares that opinion. It seems to me that the instrument is unnecessarily large and cumbersome, and that by the little instrument I used-Koeberle's serre-naud-every desired object is effected. It is easy of application; and, as the pedicle shrinks and becomes loose, it can, from time to time, with the greatest facility, be tightened up. It is too small to be of any inconvenience to the

patient.

It will be seen from the table that in Case VIII, notwithstanding that Cintrat's constrictor was left on, the pedicle became torn loose by vomiting. Now, to obviate this, it is well to pass long pins through the pedicle, guarding their ends, as is shown in the engraving illustrating the treatment in my case. (Fig. 1.) Acupressure-pins and others have been used, and it has been suggested that the material used should be ivory; but I think only metal has been employed.

Instead of a wire-loop, in some places, particularly in Vienna, the chain-écraseur is in favour. It is applied by means of a Péan's and Billroth's modification of Chassaignac's écraseur. The instrument is then removed, except the top screw, which is left with the chain to keep it secure. The objection to this instrument seems to me, that sometimes the chain cuts through the pedicle, causing bleeding from it. The table will show more than one instance of this, necessitating the subsequent employment of some kind of clamp.

It will be seen that, in tightening the wire of Cintrat's constrictor, occasionally it has given way in the loop. Other methods of securing the pedicle are by ligaturing it either with metal or silk, and stitching it to the lower angle of the abdominal wound. Hegar of Freiburg employs an elastic ligature, and is very particular to

or Freiburg employs an elastic ligature, and is very particular to use separate stitches to keep the peritoneum of the pedicle and that of the abdominal wall together.

Besides the serre-næud and the long pins, a strong silk ligature may be applied, to make it doubly secure, as in my case.

7. Drainage.—The table shows that, in many cases, drainage tubes have been passed through Douglas's pouch into the vagina, as well as tubes passed through the abdominal wound. In Italy particular well as tubes passed through the abdominal wound. In Italy particularly, this plan has been adopted; and Dr. Perruzzi lays great stress on the value of this treatment. It appears to me, however, that, at all eyents, with strict Listerian precautions, it is quite unnecessary,

and only adds a complication in the after-treatment. With such a temperature-chart as I show, of what value could drainage-tubes be? It is worth noting, however, that, should septic symptoms arise, the abdomen or Douglas's pouch might be opened subsequently, and drainage-tubes employed, possibly with advantage. (See Cases III and XIX.) The remaining steps in the operation cleansing the peritoneum and closing the abdominal wound-require no comment; they are precisely the same as in ovariotomy; so with the dressing, except that great care must be taken to tho-roughly protect the serre-nœud and pins with carbolic gauze, so as

to leave no track communicating with the exterior.

I hope that the time is not far distant when Porro's operation may become one of selection, displacing, to a great extent, craniotomy. I see no reason why its results, when performed under favourable circumstances, should not compare well with those of ovariotomy, and with those of hysterectomy for the removal of large uterine fibroids; and see what splendid results we have now arrived at with these operations! The induction of premature labour, where it can be performed with a prospect of the birth of a living child, must, of course, always be selected in preference to Porro's operation; but where the deformity is too great for this, and where, also, it has been left too late for this, the full term of pregnancy being almost reached, or, perhaps, labour having already commenced, the condition of the patient being still satisfactory, I hope, ere long, results will show that this operation should be at once selected, instead of sacrificing the life of the child by craniotomy, and submitting the life of the mother to serious risk in its performance. Before this can be generally recognised, the statistics must show better results. In attaining this object, it is my hope that this paper, and the discussion which will follow, will assist, by showing what appears to be the best method of carrying out the operation in its several details, and by pointing out the reasons of the large proportion of its failures.

It may be argued that, my table showing a total mortality of 55.8 per cent., the operation should only be performed as a dernier ressort; my answer is, that herein lies one great reason for such a high mortality. Out of the 138 cases, you will find 74 only in which the patient's condition was "favourable," in which the pedicle was not dropped in, and in which the success of the operation itself was not prejudiced by any avoidable accident. Of these 74 cases, 49 recovered, 25 died, a mortality of about 1 in 3. The question of selection should be based on these figures; not upon a summing up of total results without regard to the circumstances, so far as we can investigate them, which in each case influence the result. It is manifestly unreasonable to include in the same category as cases undertaken under fair conditions, operations performed when the patient was almost moribund from disease, or exhausted from days of labour, during which the soft parts had been bruised, or lacerations had occurred in the attempts to deliver by means of the forceps

or cranioclast.

Table I, showing the number of Cases in each Country, with Results.

			reu.	ne Tresu	1118.		
Country.	No. of Cases.		Result to M Recovered.	Iother. Died.	Result Living.	to Child. Stillborn.	Mortality per cent. of Mothers,
1Italy	54		23	31	46	9	57
1Austria			18	12	29	2	40
Germany			8	16	17	7	66.6
France	12		. 5	7	8	4	58.3
Gt. Britain .	5		1	4	4	1	
America	4		1	3	3	1	75
Belgium	4		2	2	4	0	50
Switzerland	2		2	0	1	1	. 0
Spain	1		0	1	0	1	100
Russia			. 0	1	1	0	100
Holland	1	***	1	0	1	0	. 0
			810	-	100000	0.07	-
	138		61	77	114	26	55.8

1 Italy and Austria have each a case of twins, born living.

Table II, showing number of Operations in each Year, with Result to Mother.

Total. Recovered. Died. per cer of Moth	ers.
1876 1 0 0	
1877 7 1 6 85.7	
1878 15 7 8 53.3	
1879 17 10 7 41.2	
1880 31 20 64.5	
1881	
1882 25 11 14 56	
1883 21 12 9 42.8	
	-
138 61 77 55.8	

Table III, showing Indication for Operation.

Rickets	***	89	Fibroid of uterus	***	5
Malacosteon	***	27	Cancer of cervix	411	- 3
Dwarf pelvis	***	4	Atresia vaginæ	***	2
Roberts's pelvis	***	1	Partial rupture of uterus	***	1
Pelvis deformed from acci-	dent	1	In extremis	100	3
Arthritis deformans	***	1			Mileson, Marie
Osteo-sarcoma of pelvis		1	Total	***	138

Table IV, showing Causes of Death.

				,			
Septic peritonitis				Strangulation of inter		****	1
Septicæmia	***		9	Embolism (following	phleg	gmasia	
Peritonitis	***		14	dolens)			1
Shock	***	***	16	Loss of blood and carb	olic ac	id poi-	
Tetanus			3	soning			1
Secondary hæmor	Thage		2	Retraction of pedicle			1
Pneumonia and	bronchitis	(pre-		Anæmia			1
existing)	***		2	Cerebral anæmia	***	****	1
Hæmorrhage fro	m pedicle	(pri-					_
mary)		***	1	Total	***	***	77

Table V, showing number of Cases in which Pedicle was dropped in, and of those in which it was kept out, with Result to Mother.

Intraperitoneal Extraperitoneal	No. of Cases. 13 125	 Recovered.	 Died. 10 67
	name of		-
	138	61	77

Dr. HEYWOOD SMITH (London) gave the following particulars regarding a case of Porro's operation performed by him (Case 117 in Dr. Godson's table). The patient was E. C., aged 20, single, of strumous cachexia, and very rickety. Labour began on the morning of January 6th, 1883. The "show" began on the morning of the 7th, and the midwife felt the cord presenting. On the 8th, the membranes ruptured at 7 A.M. The medical officer of 8t. Giles's workhouse, where she was admitted at 9.30 A.M., found the funis cold and perforated. Dr. Heywood Smith arrived at 1.45 P.M., and attempted to deliver with the cephalotribe, and also with crani-otomy-forceps, but, finding it impossible, he decided on performing Porro's operation. The operation was commenced at 4.15, and occupied about an hour. The uterus was drawn out of the wound before it was opened; the stump of the cervix was secured with a serre-The operation was performed under carbolic spray. patient did fairly well, the temperature not rising much till the third day (102.2°), but she succumbed to a low form of peritonitis on the fourth day.

Mr. LAWSON TAIT (Birmingham) congratulated Dr. Godson on being, so far, the only successful performer of the operation in Great Britain. Of course he could not agree with Dr. Godson in his estimate of Listerism. He was in the habit of doing four or five abdominal sections every week, and he had a mortality which was not approached by any user of the Listerian method.

Dr. GRIGG (London) congratulated Dr. Godson on the success which had attended his case. He thought that the difference between Porro's operation and Dr. Godson's was so great, that the latter might almost be called a new operation. Dr. Grigg's experience of Cæsarean section had been so unfavourable, that any operation which gave a fair chance of success should be hailed with gratitude. He had performed Porro's operation once, and a modification of it The latter cases were most unfavourable, and the surroundings of the first were equally bad. Still, from the experience gained in these cases, he felt sure that, with the modifications proposed by Dr. Godson, success might be fairly reckoned on. The mode adopted by Dr. Godson, of tearing the uterus across, he strongly approved, and especially the non-removal of the placenta and the keeping the pedicle externally. Wire was apt to cut through.

He regarded Mr. Lawson Tait's modification of Koberle's serre-Wire was apt to cut through. naud as an improvement, and would certainly use it if called on again to perform the operation. The chief danger in Porro's operation was division of the ureters. In his own cases, he had been fortunate enough to avoid this accident. In Dr. Godson's mode of operating, this danger was much reduced, if not entirely removed.

Dr. LLOYD ROBERTS (Manchester) said that all must feel grateful

to Dr. Godson for the able manner in which he had brought this subject before the Association. He had almost made this operation his own in this country, his case being the only successful one here to mother and child. Dr. Roberts's experience in cases suitable for this operation had been acquired from cases in which the Cæsarean section had been performed. Very often, the Cæsarean section had been done under the most unfavourable circumstances; still the statistics showed as good results as in Porro's operation. Hitherto, Porro's operation had been mostly performed in large cities with every appliance at hand, and by the best operators; still

the patients died of shock, of hæmorrhage, and of septicæmia. No doubt, with a larger experience, the mortality would be reduced. He thought Dr. Godson's suggestion of making the uterine incision in a transverse direction a good one, as by this means there was less danger of wounding the uterine artery. The further suggestion of leaving the placenta attached to the uterus was an important one, as it reduced the risk of blood entering the peritoneal cavity. Dr. Godson seemed to hope much from strict Listerism in these cases; but Dr. Roberts did not attach much importance to this.

Dr. WARD COUSINS (Southsea) referred to the critical moment of the operation—the opening of the uterus—when the danger of hæmorrhage was extreme. Dr. Godson had the skilled assistance of Mr. Knowsley Thornton, who grasped the neck of the uterus during the laceration of the body of the organ, and removal of the child. As all operations could not command the enormous advantage of skilled assistance, he suggested the application of the clamp, at least with partial closure, at this stage of the operation. Its application of course could be greatly helped by lifting up the uterus out of the pelvis. The instrument described by Mr. Lawson Tait appeared admirably adapted for that purpose. There was no fear of this wire cutting through the tissues, and causing hæmorrhage; but Dr. Cousins thought that, even with the smallest wires, hæmorrhage might be avoided by very slowly closing the écraseur. He had often taken half an hour during serious operations in tightening the wire.

Dr. Walter (Manchester) drew attention to the importance of deciding between Porro's operation and Casarean section, plus removal of the uterine appendages; for he believed that simple Casarean section ought not to be performed without recollecting the chance of the occurrence of future pregnancy; and, therefore, in those cases where the deformity for which the operation was undertaken was so great as to prevent a child from being delivered through the natural passages by the induction of premature labour, he thought it the duty of the operator to prevent future pregnancy. Hence it was very essential to decide between the mortality of Porro's operation, and that attending removal of appendages along with Cæsarean section. Dr. Walter alluded to a case of Cæsarean section performed at the North Staffordshire Infirmary by Mr. Alcock, about two years ago. In this case, the woman recovered rapidly, but he heard that she had since died in America, having again undergone Cæsarean section. Had Porro's operation been well known when she was under Mr. Alcock's care, the woman might yet be living.

Dr. OGILVIE GRANT (Inverness) said that, while acting as a clinical assistant under Professor Breisky of Prague, he saw two cases; one case before the operation had been performed, and the other case afterwards. Professor Breisky's remarkable statistics had been mentioned by Dr. Godson; the mother and child recovering in all four cases operated on. One point on which Dr. Breisky insisted was to undertake the operation immediately before labour commenced; he carried out antiseptics to the most minute detail, and

did not use drainage.

Dr. Godson, in reply, said that the wire attached to Koberle's serre-næud was not a steel one. It was a very soft thick wire, metallic, like Mr. Tait's, but equally unlikely to cut through the pedicle. He would take care to examine Mr. Tait's instrument; and if he saw advantages in it over Koeberle's, he would certainly adopt The wire employed was a matter of choice with either instrument. He trusted that Mr. Tait's remarks might deter future operators from adopting the intraperitoneal treatment. The value of antiseptics he would not enter upon; he would merely say that the employment of them, at all events, ensured cleanliness, which otherwise would be frequently neglected. It would be impossible to compare the statistics of the old Cæsarean with the Porro's operation. There were scores of Cæsarean operations performed in villages and remote parts which, proving fatal, had never been heard of; while, on the other hand, it was almost certain that his (Dr. Godson's) table contained, with very few, if any, exceptions, all the Porro's operations that had occurred over the whole world. reply to Dr. Ward Cousins, Dr. Godson said that, having so eminently skilled an assistant, he deputed to him what, under other circumstances, he should have done himself. The operator could equally well grasp the uterine neck to control hæmorrhage while applying the wire of the serre-naud with the other hand, the assistant attending to the child. No vessels were tied; everything was included in the loop of the serre-næud, and all above it was cut off. Amputation of a ruptured uterus was not a Porro's operation; there was no Cæsarean section in it. The advantages and disadvantages of this operation required special consideration.

Table I.—True Porro's Operations.

						DI A. Armo A							
No.	Date,	Operator and Locality.	Hospital or Private house.	Age.	Number of previous labours.	Cause of difficulty.	Available pelvic space.	of	Time in labour before operation.	Condition of woman at time of operation.	Result to woman.	Result to child	Cause of death in woman.
1	1876 May 21	Prof. E. Porro, Pavia, Italy	Hos.	25	Primipara	Rickets(pseudo osteo-malacia)	C.V. 1_{10}° in	4ft. 10}in	6 hrs. 51m.	Favourable	Recovery	Living	-
2	1877 Jan. 3	Prof. G. Inzani, Parma, Italy	P. ho.	32	3	Osteo-sarcoma of pelvis	-	Medium	About 20hrs	Exhausted by malignant disease	Died on 3rd day	,,	Septic peritonitis
3	Mar. 28	Prof. A. Hegar, Freiburg, Ger- many	Hos.	32		Rickets,lumbo- dorsal kyphosis		4 feet	4 days	Albuminuria & eclampsia	Died on 5th day	.,	
4	April 25	Dr. G. Previtali, Bergamo, Italy	.,	-	Primipara	Rickets	_	-	5 days	Exhausted by long labour	Died in 30 hours	Stillborn	Shock
5	June 22	Prof. Josef Spath, Vienna, Austria	"	40	6 (1 cranio- tomy)	Malacosteon	C.V. 2ģin	4ft. 5in.	About 3 hrs	Favourable	Recovery	Living	-
6	Sept. 3		,,	29	3	"	C.V. 3kin, R. sacro- cot. 1kin	4ft 7in.	36 hours	Unfavourable	Died on 8th day	Stillborn (putrid)	Septicamia
7	Sept. 5	Prof. Carl von Braun-Fernwald, Vienna, Austria	,,	40	7 (6 natural last one	,,	C.V. 3lin, E. sacro- cot. 1lin	4ft. 8in.	15 hours	Exhausted by malacosteen	Died on 3rd day	Living	Septic peritonitis
8	Dec. 16	Prof. D. Chiara, Milan, Italy	**	37	turning) Primipara	Rickets.	C.V. Iĝin	3ft. 7}in.	Not commenced	Favourable	Died on 7th day	"	Shock from irawing in of pedicle and protrusion of
9	1878 Feb. 4	Prof. P. Müller, Berne, Switzer- land	,,	37	5	Malacosteon	pelvis ros- trate, con-	4ft. 11in.	3½ days	Unfavourable	Recovery	Stillborn	bowel _
10	April 11	Dr. F. Franzolini, Udine, Italy		35	Multipara	(See condition)	traction at outlet Ordinary	Medium	Not commenced	bronchial	36 hours	died with-	Pneumonia, with anasarca
11	April 14	Prof. A. Wasseige, Liège, Belgium	P. ho.	39	Primipara	Rickets	C.V. 2 in	4ft. 1¦in.	18 hours	Favourable	Recovery	in an hour Living	-
12	May 10	Prof. Carl von Braun-Fernwald, Vienna, Austria	Hos.	26	"	,,	,,	4ft. 1jin.	11 hours	,,		"	-
13	May 22	Prof. D. Chiara, Milan, Italy	.,	23	1 (induced)	**	C.V. 2‡in	4ft. 3jin.	12 hours	**	Died on 4th day	"	Septic Peritonitis
14	May 28	Prof. D. Tibone, Turin, Italy	**	27	Primipara	,,	C.V. 2¦in	3ft. 8jin.	,,	"	Died in 40 hours	"	**
15	June 14	Prof. C. C. Th. Litzmann, Kiel, Germany	,,	29	1 (cranio- tomy)	Generally con- tracted pelvis	C.V. 3lin	4ft 6jin.	3 days	Febrile. Oc- clusion of ex- ternal os	Died on 6th day	"	pus found in shut cervix
16	July 9	Prof. A. Breisky, Prague, Austria	.,	32	Primipara	Rickets	C.V. 21in	4ft. 8in.	As soon as waters broke	Favourable	Recovery	,,	- Shut cervix
17	Aug. 3	Prof. A. Wasseige, Liège, Bel- gium	,,	21		"	C.V. lin	3ft. 3≟in.	A few hours. Waters not broken	Not very favourable	Died in 46 hours	"	Septic peritonitis
18	Aug. 23	Prof. C. Perolio, Brescia, Italy	,,	25	**	(pseudo-osteo-	C.V. 2]in	3ft. 11in.	15 hours	Favourable	Recovery		-
19	Sept. 10	Dr. H. Riedinger, Brünn, Austria	"	33	,,	malacia) Rickets	C.V. 2lin	4ft. 7jin.	14 hours	**	"	. "	-
20	Oct. 7	Dr. H. Fehling, Stuttgart, Germany	.,	30	"	(kyphosco-	C.V. 1gin	4ft. 4in.	15 hours		Died on 5th day	.,,	Septicæmia
21	Oct. 19	Prof. D. Chiara, Milan, Italy		43	6	liosis) Malacosteon	Could not be reached		24 hours	**	,,	"	-
22 23	Dec. 13 Dec. 30	Prof. Gustav Braun, Vienna, Austria Dr. G. Previtali, Bergamo, Italy		30	Primipara	Rickets	C.V. 2lin	3ft. 10in. —	one day	Prostrate from fear	Died on 3rd day Died in 30 hours	,, Stillborn	Septic peritonitis Shock
24	1879 Jan. 17	Prof. D. Tibone, Turin, Italy	.,	30	,,		C.V. 2in	3ft. 8in.	Membranes unruptured	Favourable	Recovery	Living	-
25	Feb. 2	Dr. A. Fochier, Lyons, France	"	33		Malacosteon	C.V. 15in	2000	6 hours	Not very favourable	,,	"	-
26 27	Feb. 11 Feb. 24	Dr. P. Coggi, Cremona, Italy Prof. S. Tarnier, Neuilly, France		30	"	Rickets Fibroustumour	C.V. 2in Normal	4ft 2}in. Average	A few hours 7 days	Favourable Very	Died on 8th day Died on	,, Stillborn	Septic peritonitis Septicamia
	Mar. 1	Prof. D. Tibone, Turin, Italy		38	**	Rickets	C.V. 13in	4ft. 4in.	Not commenced	unfavourable Favourable	Ord day Died on 4th day	Living	Septic peritonitis
			1										

	-	_		
Treatment of pedicle.	Dressing, ordinary or Listerian	Duration of operation.	Special notes.	References
Kept out with Cintrat's con strictor	Ordinary; drainage through Douglas' pouch and abdomi nal wound	43 min	Uterus opened in situ; constrictor removed on fifth day	Annali Universali di Medicina, Milano, 1876, vol. 237.
Pedicle tied in two parts by metallic suture, and fixed in lower part of abdomina	.,,	55 min	Operation performed at Borgo S. Domino, 33 miles from Parma; uterus opened in situ	Not published. Information from operator, through Dr. Peruzzi.
wound Double metallic ligature through pedicle, over which ecraseur chain, and transfixed by three pins		45 mins	On third day passed a drainage-tube through Douglas' pouch, and much turbid fluid escaped; uterus opened in situ	Centralblattfür Gynäkol., 1879, No. 11. Information direct from operator.
	Ordinary; drainage through Douglas' pouch and abdomi- nal wound	-	Brought to hospital almost moribund; uterus opened in situ	Pamphlet of Dr. Carlo Perolio, Brescia, 1879. Communication direct from ope-
Kept out by ligature and écra- seur chain	Listerian, with spray; drainage through Douglas' pouch and abdominal wound		24 days under preparation in hospital; uterus opened in situ	rator. Wiener Med. Wochenschrift, 1878. Commu- nication direct from Dr. Lumpe, Assistant.
19 39	n notification of the second	-	Profuse bleeding during operation; placenta detached before uterus was drawn out and écraseur applied	Wiener Med. Wochenscrift, 1878; Central- blatt für Gynäkol., 1878, No. 2, p. 226. Communication direct from Dr. Lumpe,
Kept out, stitched in lower part of abdominal wound, and écraseur chain left on		-	Uterus opened in situ	Assistant. Lo Sperimentale, Florence, 1879, Welponer; Wiener Med. Wochenschrift, 1878, No. 23, Pawlik.
Kept out with Cintrat's con- strictor	Listerian, with spray; drainage through Douglas' pouch and abdominal wound	45 mins	Pedicle torn loose by vomiting: constrictor left on; uterus opened in situ	Annali Universali di Medicina, Milano, 1878. Communication direct from ope- rator.
Kept out with Maisonneuve's constrictor	Listerian, drainage through Douglas' pouch	-	Müller's modification, drainage-tube re- moved on fifth day	"Der Moderne Kaiserschnitt," von P. Müller, Berlin, Hirschwald, 1882.
Kept out with Cintrat's con- strictor, and two long pins		40 mins	in extremis, towards the end of pregnancy,	
surrounded by elastic ligature Kept out by écraseur, chain, and long pin	Listerian with spray; drainage through Douglas' pouch	1 hour	induction of labour being unsuccessful Écraseur tightened 9th day, and removed a few days later; uterus opened in situ	Scienze Mediche, Feb., 1879. Ann. Soc. Med. Chirurg. de Liège, 1879 xviii; Bull. de l'Acad. Royale de Médecine de Belgique, t. xii, 3me serie, No. 5.
Kept out by écraseur chain, Well's clamp applied on 2nd day		-	Müller's modification attempted but re- linquished	Communicated direct from operator Lo Sperimentale, Florence, 1879, Welponer; Wiener Med. Wochen., 1879, 2 and 3.
	Listerian with spray; drainage through Douglas' pouch and abdominal wound	42 mins	Müller's modification; metallic ligature applied with Cintrat's censtrictor, which was then removed	Annali Universali di Medicina, Milano, 1878. Communication direct from ope- rator.
Kept out with Cintrat's con- strictor, and two long pins			Müller's modification; womb got out with great difficulty, and bruising, after the membranes were punctured per vaginam	Annali di Ostetricia, etc., Milano, 1879, p. 129. Communication direct from ope- rator.
Ligatured and kept out	" "	2 hours	Müller's modification, elastic bandage	Centralblatt für Gynäkol., 1879, iii, pp. 1—4.
needle between two Cintrat's wire sutures				Archiv für Gynäkol., xiv, Leipzig, 1879, 102—120. Communicated direct from operator.
Kept out with Cintrat's con- strictor	Listerian with spray; drainage through Douglas' pouch	75 mins	Severe hæmorrhage during operation caused by chain of écraseur cutting through pedi- cle. At necropsy blood clots found in peritoneum; Müller's modification tried; but relinquished	Bull. de l'Académie Royale de Méd. de Bel- gique, t. 12, 3me serie, No. 8. Communi- cated direct from operator.
Kept out with Cintrat's con- strictor and long pin	Ordinary; drainage through Douglas' pouch and abdomi- nal wound	38 mins	Uterus opened in situ; constrictor left on, fastened to right thigh; removed on twelfth day	Pamphlet of Dr. Carlo Perolio. Brescia, 1879, tip., F. Appollonis. Communica- tion direct from operator.
Kept out. Stiched to lower angle of wound and chain of Péan and Billroth's écra- seur left on	Listerian with spray : drainage-	2 hours	Uterus opened in situ; abdomen opened 5 days after operation on account of septic symptoms, and drainage-tubes inserted	Wiener Med. Wochenschrift, 1879, 20-21. Communicated direct from operator.
Kept out by Spencer Wells', clamp	Listerian with spray	1½ hours	Müller's modification; clamp was substi- tuted for Cintrat's serre-nœud, the wire having cut through the pedicle	Centralblatt für Gynäkol., 1878. Informa- tion direct from operator.
Kept out with écraseur of Chas- saignac, and fixed in lower angle of abdominal wound		2230000	Müller's modification tried, but relinquished	Annali Universali di Medicina, Milano, 1878, vol. 243. Communication direct from operator.
Kept out. Ecraseur chain left on	Drainage-tube through abdo- minal wound Listerian; drainage through Douglas' pouch and abdomi-		Müller's modification Uterus opened in situ	Wiener Med. Wochenschrift, 1879, 12, 13, 15, 16. Communication from Dr. Breus. Not published. Communication direct from operator.
" "	nal wound	35 mins		Annali di Ostet. Gin. e Ped. Milano, 1879, p. 148. Communication direct from operator,
Fixed in lower angle of wound with double metallic ligature Kept out by Cintrat's serre-			Müller's modification	Archives de Tocologie, Paris, Nov., 1879, p. 675. Communication direct from operator.
nœud and fong pin			Müller's modification; fœtus putrid; gas in utero	
Kept out with double metallic ligature through centre of pedicle tightened by Cintrat's constrictor, also long pin		35 mins	Uterus opened in situ; intestines protruded during operation	tant.
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Table I .- True Porro's Operations (continued).

No.	Date.	Operator and Locality.	Hospital or Private house,	Age.	Number of previous labours.	Cause of difficulty.	Available pelvic space,	Height of Woman.	Time in labour before operation.	Condition of- woman at time of operation.	Result to woman.	Result to child.	Cause of death in woman
29	1879 Mar. 20	Dr. G. Peyretti, Turin, Italy	Hos.	32	Primipara	Rickets	C.V. 2½in	3ft. 7in.	24 hours	Favourable	Died on 10th day	Living	Tetanus
30	Mar. 30	Prof. S. Tarnier, Paris, France	,,	36	.,	,,	C.V. 2 ³ in	4 feet	5 days	Unfavourable	Recovery	Stillborn	-
31	April 1	Prof. Carl von Braun-Fern- wald, Vienna, Austria	,,	25			C.V. 2lin	5ft. 4in.	24 hours	Favourable		Living	-
32	May 3	Dr. G. Previtali, Bergamo.	**		.,	11	_	_	One day	"	Died in		Shock
33	May 16	Prof. G. Berruti, Turin, Italy	P. ho.	31			C.V. 11in	4ft. 4in.	12 hours	"	20 hours Recovery		THE REAL PROPERTY.
31	May 23	Prof. Carl von Braun-Fern- wald, Vienna, Austria	Hos.	23	,,	,,	C.V. 2in	4 feet	10 hours	**	Died on 5th day	"	Peritonitis
35	June 19	Prof. L. Mangiagalli, Milan Italy	,,	24		"	C.V. 2‡in	4ft. 8]in.	1½ days	,,	Recovery		
36	June 20	Prof. Carl von Braun-Fern	,,	23	,,	19.	C.V. 2in	4ft. 6}in.	6 hours	.,		"	-
37	Aug. 28	wald, Vienna, Austria Prof. D. Chiara, Milan, Italy	,,	25	1 (after cra- niotomy)	0.	C.V. 2lin	4ft. 4in.	Not commenced	"	- "	"	-
38	Nov. 19	Dr. J. Lucas-Championnière Paris, France	.,,	26	Primipara	"			About 9 hrs	**		"	
39	Dec. 6	, , , ,	**	28		,,	C.V. 1fin			**	Died in 32 hours		Shock; no peri- tonitis or septicemia
40	Dec. 30		**	23	"	"	C.V. 13in	4ft. 2in.	Upwards of 30 hours	Unfavourable	Recovery	**	-
41	1880 Jan. 2	Dr. Heusner, Barmen, Ger many	,,	22	,,	"	C.V. 2in	4ft. 5}in.	60 hours	Favourable	Died on 3rd day	Stillborn	Septicæmia
42	Jan. 9	Dr. G. Previtali, Bergamo	. ,,	H	- 11	.,	-	-	One day	,,,	Died in 48 hours	Living	Shock
43	Jan. 11	Italy Prof. G. Valtorta, Venice, Italy	"		3(2after em- bryotomy, 1 induction of labour and	"	C.V. 2lin	4ft. Sin.	37 hours	Exhausted by previous attempts to deliver	Died in 35} hours		,,
44	Jan. 17	Dr. J. Lucas-Championnière Paris, France	. "	43	forceps) Primipara	.,	C.V. 2in	3ft. Sin.	2 days	Unfavourable	Died in 30 hours		Shock; no signs of peritonitis or septicæmia
45	Feb. 16	Prof. Eugène Hubert, Lou vain, Belgium	,	27	"	.,	C.V. 2§in	4ft lu.	14 hours	Favourable	Died in 32 hours		Secondary ham- orrhage; incipi- ent peritonitis
46	Feb. 17	Prof. G. Chiarleoni, Milan Italy	, P. ho		3 (2 induced) 1 after cc- phalotripsy	"	C.V. 23in	4ft. din	Not	.,,	Died on 3rd day	,,	Secondary hæmorrhage
47	Feb. 25	Prof. L. Mangiagalli, Milan Italy,	. Hos.	20	Primipara	.11	C.V. 120 in	3ft. 4∮in	13	,,	Recovery	"	The state of
48	March 7	Prof. A. Cuzzi, Cremona, Ital	y ,,	35	.,	Rickets: funnel-shaped pelvis	Bis-ischi- atic 2in	3ft, 4in.	About 6 hrs	Unfavourable	Died on 4th day	,,	Septic peritonitis
49	March	Prof. Gustav Braun, Vienna Austria	, ,,	30	Primipara		C.V. 2in	Sft. lin.	10) hours	Favourable	Recovery		
50	Mar. 21		y ,,	36	7 (2 last cra- niotomy)	Malacosteon	-	-	Just	Fair .	Died on 7th day		Septic peritonitis
51	April 8	Prof. Isaac E. Taylor, Ne York, U.S. America	w P. ho	27	1 (cephalo- tripsy)	Rickets	C.V. 2lin 1iin bis- ischiatio	, 4ft. 4in.		Favourable	Died on 26th day		Embolism, fol- lowing phleg- masia dolens
52	April 1	5 Dr. Heusner, Barmen, Ge	r- Hos	. 33	4	Malacosteon	C.V. 2½ in R. sacro-			Somewhat	Died on 4th day		Septic peritonitis
53	April 2	3	"	29	Primipara	Rickets	cot., 14in C.V. 2in	Short	About 12 hr	Very unfa- vorable from prolonged at tempts at de livery & los	2nd day		Loss of blood & carbolic acid poisoning; no peritonitis
54	May 3	Prof. T. Halbertsma, Utrech	t, "	20	,,	Rickets;	C.V. Sin	-	30 hours	of blood; very anæmic Unfavourable		y	-
	May 28	Holland		27		partial ruptur of uterus Rickets	C.V. 2]ir	_		Favourable	,,	Living	-
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Table I.—True Porro's Operations (continued).

The same of the sa		1500000		
Treatment of pedicle.	Dressing, ordinary or Listerian.	Duration of operation.	Special notes.	References.
Kept out with Cintrat's constric- tor, and stitched to lower angle of abdominal wound	Listerian, with spray; no drain- age	1½ hours	Uterus opened in situ; tetanus followed "miliary fever;" constrictor, 8 inches long, fixed to right thigh, removed ninth	Communication direct from operator
Kept out by long pin between two metallic ligatures applied	Listerian, with spray	-	day Uterus opened in silu; fœtus putrid	Annales de Gynécologie, August, 1879; Thèse de Maygrier, Paris, 1880. Commu-
with Cintrat's constrictor Kept out; écraseur-chain left on, and a long pin	Thymol spray; drainage-tube through abdominal wound	-	Müller's modification attempted, but relin- quished; drainage-tubes removed on 11th and 15th days; chain came away on 14th day	
Kept out with Cintrat's con-	Listerian ; no drainage	-	Uterus opened in situ	Communication direct from operator.
strictor Kept out: Koeberlé's serre-nœud and double ligature of silk	Listerian, with spray	35 mins	On the 20th day the patient was shown at the Medical Society of Turin	Internazionale delle Scienze Mediche, Napoli, 1880. Communication direct from
Kept out by constrictor	Thymol spray; drainage through abdominal wound	-	städter's constrictor was applied; abdo- men reopened on 4th day, and washed out with thymol lotion. Müller's modifica-	operator. Wiener Med. Wochenschrift, 1880, 10, Paw- iik.
Kept out with Cintrat's serre- nœud, and stitched to lower an- gle of abdominal wound; also long pin, with figure of 8 silk	drainage	28 mins	tion attempted, but relinquished Cured on 33rd day; uterus opened in situ	Annali di Ostetricia, etc., Milano, 1879, vol. i. Communication direct from operator.
ligature Kept out; écraseur chain left on	Thymol spray	-		Wiener Med. Wochenschrift, 1880, 16, 17,
Kept out with chain of Chassaig-		40 mins	quished Uterus opened in situ; cured on 45th day	Pawlik. Annali di Ostetricia, etc., Milano, 1879, vol.
nac's écraseur and long pin Kept out with Cintrat's serre- nœud and two long pins	drainage	45 mins	Uterus opened in situ	 Communication direct from operator, Académie de Médecine, 9 Mars, 1889; Thèse de Maygrier, 1880. Communication direct from operator.
	,, n	20 mins	Uterus opened in situ	n n
		1 hour	Uterus opened in situ	
Kept out by Maisonneuve's con- strictor			during operation, owing to breaking of copper wire; silver wire had to be substi-	
Kept out by Cintrat's constrictor	,, ,,	_	tuted Uterus opened in situ	Communication direct from operator,
19	" "	1 hour	Uterus opened in situ; at own home at- tempted version and embryotomy	Communication direct from operator.
Kept out with Cintrat's serre- nœud and two long pins		-	attack four hours after operation	Académie de Médicine, 9 Mars, 1880; So- ciété de Chirurgie, Juin, 1882; Thèse de Maygrier, Paris, 1880. Communication direct from operator.
Kept out by two strong silk liga- tures, with long pin through pedicle	Imperfect Listerian	3) mins	Silk ligatures applied to pedicle because wire of Maisonneuve's serre-need broke. Fifteen hours after operation hæmorrhage from pedicle	June 15th, 1880. Communication direct
and long pin, and fixed in lower angle of wound	drainage	40 mins	Uterus opened in situ; the hæmorrhage took place from a laceration in the left broad ligament made by the constrictor	La Pratica Ostetrica nel servizio di S. Co- rona in Milano, per il Dott Chiarleoni, Milano, 1882. Communication direct from operator.
,, ,,	"	10 mins	Uterus opened in situ	Annali di Ostetricia, etc., Milano, 1880, vol. ii, p. 193. Communication direct from
West out a ferrosses abole lett on	***************************************	-	Uterus opened in situ: Suffering from albu- minuria; pyonephritis found at autopsy	operator. Annali di Ostetricia, etc., Jan. 1883.
Kept out; écraseur-chain left on	drainage	-	Uterus opened in situ	Wiener Med. Wochenschrift, 1880, 26. Com-
Ligatured and dropped in	Listerian, with spray	45 mins	Müller's modification	municated direct from operator. Zeitschrift für Geburtshülfe und Gynäkolo-
Cobbler's suture, and dropped in		1 hour	Uterus opened in situ	gie, 1880, Bd. v, s. 261. American Journal of Medical Sciences, July, 1880.
Ligatured and dropped in	Listerian, with spray; ne	_	Müller's modification	Not published. Communicated direct by
Ligatured with silver wire and dropped in	drainage	-	Decapitation already performed outside hospital, and trunk removed	operator.
	1 2			
Kept out with metallic ligatures and fixed in lower angle of ab- dominal wound Kept out with écraseur-chain			Uterus slightly ruptured, with laceration of peritoneum, in trying to turn for shoulder presentation; uterus opened in situ	Weekblad v. h. Nederl Tijdschrift voor Geneesk., 1880, No. 36. Communication
aceps out with ocraseur-chain	23 21	40 mins	_	direct from operator. Communicated direct by Dr. Pritzl, assistant.

Table I .- True Porro's Operations (continued).

				1	ABLE 1	- True Porro s	Operace	ons (con	connect,				
No.	Date.	Operator and Locality.	Hospital or Private house.	Age.	Number of previous labours.	Cause of Difficulty.	Available pelvic space.	Height of woman.	Time in labour before operation.	Condition of woman at time of operation.	Result to woman.	Result to child.	Cause of death in woman.
56	1880 June 1	Dr. V. Omboni, Cremona,	P.ho.	33	Primipara	Rickets	C.V. 13in	4 feet	11 hours	Favourable	Died on	Living	Septic
57	June 13	Italy Prof. S. Tarnier, Paris, France	Hos.	20	- 11	Malacosteon	Very con- tracted	-	Just commenced	.33	7th day Died in 30 hours	19	peritonitis Shock (no peritonitis)
58	June 24	Dr. D. Peruzzi, Lugo, Italy	,,	37	**	Rickets	C.V. 2in	3ft. 4in	12 hours	,,	Recovery	.,,	-
59	July 3	Dr. C. Ramello, Turin, Italy	P. ho.	19	,,		C.V. less	3ft. 4}in	9 days	Very	***	Stillborn;	-
60	July 4	Dr. L. Oppenheimer, Würtz-		44 3	13 (natural)	Malacosteon	than lin Extreme-	-	10 hours	unfavourable Favourable	.,	Dutrid Living	- /
61	July 23	burg, Germany Prof. E. Pasquali, Rome, Italy	Hos.	37	Primipara	Duck-beaked pelvis	ly small C.V.13in	3ft. 8in	24 hours	Fair	Died on 6th day		Pyæmia
63	July 31	Dr. Zweifel, Erlangen, Ger- many		37	,		1½in. be- tween tu- mour and symphy- sis pubis	Average	Several hours		"	.,	Septicæmia
63	Sept. 18	Prof. G. Veit, Bonn, Ger-		22	**	Rickets	C.V. 2jin	-	Not commenced	Favourable	Recovery	٠,	-
64	Sept. 22	many Dr. Elliott Richardson, Phil- adelphia (U.S.A.)	P. ho.	25		Dwarf pelvis	C.V. 1%in	3ft. 10in.			"		
65	Sept. 24	Professor Herrgott, Nancy, France	Hos.	29		Rickets	C.V. 2jin	4ft. 4in.	pregnant) 24 hours	"	Died on 4th day	,,	Peritonitis
68	Oct. 21	Dr. Ficki, Warsaw, Russia	P. ho.	27	,,	,11	C.V. 2in	Short	3 days	11	Died on 5th day		Tetanus;circum- scribed purulent peritonitis
67	Oct. 28	Prof. Cataliotti, Palermo,	,,	41	"	Interstitial fi- broid in pos- terior wall of	Average	5ft. 3in	A few hours	Unfavour- able	Recovery	- 11	Peritonitis
68	Dec. 2	Prof. D. Tibone, Turin, Italy	Hos.	38	3	uterus	C.V. 2½in	Short	52 hours	Very unfa- vorable from long labour and partial	Died on 3rd day	Stillborn	Peritonitis
69	Dec. 7	Dr. J. De Rull, Barcelona, Spain	,,	30	1	Atresia vaginæ following pre- vious labour	Normal	Average	48 hours	rupture of uterus Very unfavourable	Died in 4 hours	"	Shock, and hæ- morrhage from wound in pedi- cle caused by wire of Cintrat's
70	Dec. 7	Prof. A. Hegar, Freiburg, Germany	,,	34	Primipara	Rickets	C.V. 25in	3ft. 8§in	Just commenced	Suffering severely from bronchitis	Died on 9th day	Living	serre-nœud Chronic bron- chitis; emphy- sema; catarrhal pneumonia
71	Dec. 15 1881	Prof. Gustav Braun, Vienna, Austria	"	29	3	Malacosteon	Micro- chord 1 in	-	A few hours	Favourable	Recovery	"	_
79	Jan. 21	Dr. F. Parona, Novara, Italy	P. ho.	27	Primipara	Rickets	C.V. 2jin	3ft. 4in	Not commenced		Died on 8th day	"	Tetanus
73	Jan. 21	Prof. A. Breisky, Prague, Austria	Hos.	28			C.V. 21in	4ft. 5in	2,days	,,	Recovery	"	-
74	Jan. 21	Dr. Kreuzmann, Erlangen, Germany		-		,,	C.V. 2lin	Very short	**	Fair	Died on 3rd day	Stillborn (prolapse of umbili- cal cord)	Septic peritonitis
75	Jan. 29	Prof. Carl von Braun Fern- wald, Vienna, Austria	,,	21		"	-	3ft. 8jin	Just commenced	Favourable	Recovery	Living	-
76	Feb. 19	Prof. P. Müller, Berne, Switzerland	"	26	**		C.V. 2jin	4ft	30 hours	"	,,		-
77	Feb. 21	Prof. Alex. Simpson, Edin- burgh, Scotland	P. ho.	24	4 (3 cranio- tomies)	"	C.V. 2}in	4ft, Sin	Not commenced		Died on 4th day	"	Peritonitis
78	April 6	Dr. C. Olivieri, Naples, Italy	Hos.	20	Primipara	"	C.V. 21in	3ft. 4in	6 hours	Fair	Died in 30 hours		Shock
79	April 7	Dr. Werth, Kiel, Germany	"	38	2 (both de- livered by Cæsarean section)	"	C.V. 1jin	4ft. 5in	Not	Ansemie	Recovery		-
80	April 21	Dr. L. Prochownick, Ham burg, Germany	P. hosp.		Primipara	Fibromyoma of uterus impac- ted in pelvis	-	Average	About 24 hrs after dis- charge of	able	Died in 60 hours	Living (only breatheds few mins)	
81	May 4	Dr. H. Fehling, Stattgart Germany	Hos.	30	3	Malacosteon	sacro-cot.	4ft, 3in	liquoramni 17 hours	Favourable	Recovery		7
	1						1 1	1		le .			

Table I.—True Porro's Operations (continued).

	TABLE 1	-17mc 1	brros Operacions (concinaca).	
Treatment of pedicle.	Dressing, ordinary or Listerian.	Duration of operation.	Special notes.	References.
Kept out with Cintrat's constric- tor and two long pins Kept out with Cintrat's serre- noud and long needle above	19 19	20 mins 38 mins	Uterus opened in situ	Communication direct from operator. Not published. Communicated direct by Dr. Labat, late assistant.
nœud and two strong pins Kept out with Thomas' clamp in lower angle of wound	through Douglas' pouch Listerian, with spray; no drain- age	27 mins		Raccoglitore Medico di Forli, 1880, vol. 14, p. 281. Communication direct from operator. Annali di Ostetricia, etc., Milano, 1880, vol. ii. Communication direct from operator. Acertikolo-Intelligent Platt Miles Particol
Kept out with Spencer Wells' clamp Kept out with Cintrat's constric- tor and two long pins		- mins	ture; manual compression Uterus opened in situ	Aerztliches Intelligenz-Blatt, München, No. 19, 1882. Annali di Ostetricia, etc., Milano, 1880, vol. iii. Due Ooforisterectomic Cesaree, etc., per il Dott. A. Bompiuni, Milano, 1881. Communication direct from Dr. Bompiani.
Dropped in with double silk lig- ature, after removing Kαberle's serre-nœud		-	Müller's modification; impossible to fix pedicle outside	Archiv für Gynäkologie, Band 17, Heft 3.
Ligatured and dropped in	**	1½ hours	Müller's modification	Centralblatt für Gynäkol., 1881, p. 193 (Levis).
Kept out with pins; strong silk ligature between them	11 21	1 hours	Müller's modification; wire écraseur used, but removed after applying silk ligature; pedicle came away 11th day; recovery 17th day	
Fixed in lower angle of abdomi- nal wound with serre-nœudand metallic pin, guarded with caoutchouc	age	30 mins		Revue Médicale de l'Est, 1881, p. 616. Com- munication direct from operator.
Kept out with Cintrat's constric- tor	Listerian, with spray	45 mins	Did well for 4 days; opisthotonos occurred suddenly on 5th day, and death ensued in a few hours	Operacya ciecia cesarskiego sposobem Porro. Tow. lek. Warszawa, d. 9 Listopada, 1880.
Kept out with wire ligature ap- plied by serre-nœud, and catgut ligature; transfixed between with metallic pin	age	1½ hours		Bolletino dell' Accademia di Medicina di Palermo, 1880. Communication direct from operator.
Kept out with Kaltenbach's needle and elastic ligature	23	1 hour	" "	Annali di Ostetricia, etc., Milano, 1881. Com munication direct from operator.
Kept out with two strong pins and elastic ligature	Listerian, with spray	-	Uterus opened in situ; wire of Cintrat's serre-nœud broke, so elastic ligature ap- plied; vaginal cicatrices incised during labour without avail	
Kept out; elastic ligature	Listerian, no spray	1 hour	Stump remained entirely aseptic; no trace of peritonitis	Communication direct from operator. Not yet published.
Kept out; stitched to lower angle of abdominal wound, and écra- seur chain left on	Listerian, with spray; no drain- age	-	Uterus opened in situ	Anzeiger der k. k. Gesellschaft der Aerzte in Wien, 3 Feb., 1881. Communication from Dr. Breus, assistant.
	Listerian dressing; no drainage	45 mins	"	L'Indipendente di Torino, 1881. Communi- cation direct from operator.
	Listerian, with thymol spray; no drainage	-	Müller's modification	Centralblatt für Gynäkol., vol. v., 1881, p. 228. Information direct from operator.
Stitched to lower angle of wound; Koeberle's serre-nœud and a long pin	Listerian, with spray	2 hours	Glass drainage-tube inserted on day follow- ing operation .	Archiv für Gynäkologie, Bd. xvii, Heft 3 (Zweifel). Communication direct from operator.
Kept out with craseur chain and long pins, and stitched to lower angle of wound	Listerian	-		Communicated direct by Dr. Pritzl, assistant.
Kept out with Spencer Wells' clamp, two long pins, and stitched to lower angle of wound Ligatured and dropped in	Listerian, with spray; drainage- tube through abdominal wound Listerian, with spray		Müller's modification Uterus opened in situ. Swabbing out Doug-	"Der Moderne Kaiserelmitt," von Dr. P. Müller, Berlin, 1882. Communication direct from operator. British Medical Journal, June 11, 1881.
		40 mins	las' pouch displaced ligature from pedicle, and fresh ligature and Paquelin's cautery were applied	
seur and stitched to lower angle of abdominal wound Kept out with double elastic lig-	age		Uterus opened in situ; écraseur fixed to thigh	published.
ature applied by Kaltenbach's needle, and stitched to lower angle of wound with catgut		19 nours	Müller's modification	Archiv für Gynäkologie, Bd. xviii, Heft 2.
Kept out with Péan's constrictor:			A little over seven months advanced in pregnancy. Müller's modification	Deutsche Medecinische Wochenschrift, No. 40,1882. Communicated direct by operator.
Kept out with Péan-Billroth's écraseur chain, and long needle above; stitched to lower, angle of wound	account of septic symptoms Listerian, with spray	V comment	Müller's modification. Écraseur came away on 16th day	Archiv für Gynäkol., Bd. xviii. Communi- cated direct by operator.
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TABLE I .- True Porro's Operations (continued).

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No.	Date.	Operator and Locality.	Hospital or Private House.	Age.	Number of previous labours.	Cause of difficulty.	Available pelvic space.	01	Time in labour before operation.	Condition of woman at time of operation.	Result to woman.	Result to child.	Cause of death in woman.
82	1881. May 22	Dr. Ambroise Guichard, Angers, France	Hos.	25	Primipara	Rickets	Bis-ischi- atic l§in		Not commenced	Favourable	Died on 3rd day	Living	Shock (no peritonitis)
83	June 8	Dr. L. Oppenheimer, Würz- burg, Germany	P. ho.	32	2	Malacosteon	-	-	14 hours	Unfavour- able	Died on 4th day	Stillborn	Peritonitis
84	June 22	Dr. B. Niccolini, Milan, Italy		22	Primipara	Rickets	C.V. 25in	3ft. 4in	Not	Favourable	Recovery	Living	_
85		Prof. Carl von Braun-Fern-			.,		C.V. 2lin R. micro-		commenced	,,	Died on	.,	Peritonitis
86	Oct. 3	wald, Vienna, Austria Dr. Heusner, Barmen, Ger- many		36	1	,	chord 2% C.V. 2½in	Short	32 hours	Very unfa- vourable, re-	5th day. Died on 3rd day	Stillborn	Septic peritonitis
87	Oct. 9	Prof. Paolo Negri, Milan, Italy	,,	33	4	Malacosteon	Bis - ischi- atie 1?in	4ft. 11in	25 hours	peated eclampti c fits Favourable		Living	
88	Oct. 22	Prof. D. Chiara, Milan, Italy	,,	23	Primipara	Rickets	C.V. 2}in	4ft. 6in	One day		,,	,,	-
											6.00		Marie To the
89	Oct. 22	Prof. G. Calderini, Parma, Italy	P. ho.	27	1 (at 6 months)		C.V. 2}in	Short	3 days	Deplorable	Died	Stillborn	Peritonitis
90	Dec. 11	Dr. W. C. Grigg, London, England	Hos.	34	Primipara		C.V. 1}in	3ft 6in	32 hrs. (liq. amnii not	Favourable	Died in 24 hours	Living	Shock and incip ient peritonitie
91	Dec. 22	Prof. Herrgott, Nancy, France	,,	34			C.V. lin	3ft 7in	discharged) 5 days	Deplorable	Died next day	Stillborn	Septic peritonitis
92	Dec, 31	Dr. Ernst Braun, Vienna, Austria	,,	35	8 (1 cranio- tomy)	Malacosteon	C.V. 3\in, sacro-cot	4ft 8in	8½ hours	Fair	Died 6th	Living	Peritonitis
93	1882 Jan. 3	Prof. O. Morisani, Naples, Italy	,,	38	Primipara	Rickets	C.V. 2½in	4 feet	6 hours	Favourable	Died in 24 hours	- 19	Septic peritonitis
94	Jan. 8	Prof. A. Briesky, Prague, Austria	,,	30	,,		C.V. 23in	-	Not commenced		Recovery		-
95	Mar. 7	Prof. Josef Spath, Vienna, Austria		21	.,	Roberts' pelvis	C.V. 3lin, bis-ischi-	_	Waters broke pre-	,,	,,	ñ	-
96	Mar. 10	Dr. G. Dozzi, Motta di Livenza, Italy		28	.,	Rickets	atic, lin C.V. 3in bis-ischia-	3 feet	vious day 24 hours	Very unfavourable	Died in 24 hours	'(only	Shock
97	Mar. 23	Dr. H. Fehling, Stuttgart,		39	9	Malacosteon	tic 27in Sacro-cot.	4ft 2in	16 hours	Favourable	Recovery	for a few minutes) Living	-
		Germany					1‡in						
98	April	Prof. Gustav Braun, Vienna, Austria	"	31	Primipara	Dwarf pelvis	-	-	Not commenced	Unfavour- able	Died fol- lowing day	Living	Anæmia
99	May 5	Prof. Gustav Braun, Vienna, Austria	",	40	9	Malacosteon	Micro- chord 2in	-	A few hours after waters broke		Died on 4th day	-"	Peritonitis
100	May 10	Dr. Paul Grossmann, Omaha, U. S. A.	P. ho.	23	Primipara	Rickets	C.V. 2in	4ft lin	66 hours	Exhausted from long labour	Died in 14 hours	Stillborn	Shock and ex- haustion
101	May 24	Prof. A. Breisky, Prague, Austria	Hos.	28		. "	C.V. 2lin	-	Not commenced	Favourable	Recovery	Living	-
100	2 May 30	Dr. Giuseppe Carrara, Bres- cia, Italy	L.Asy	33	Multipara	In extremis	Normal	Average	"	Hopeless	Died in 2 hours	Living (died in a few days)	
100	June 14	Prof. v. Saexinger, Tübingen Germany	Hos.	22	Primipara	Rickets	C.V. 2in	4ft 4in	7 hours	Favourable	Died in 30 hours		Peritonitis
10	July 11	Dr. P. Cenci, Borgo, S. Don- nino, Italy	.,	26	,,	,,	C.V. 23in	3ft 5in	36 hours; 18 hours after		Recovery	"	-
10	Sept. 2	Dr. Leopold Dejace, Liège Belgium		25	1 /	Atresia of vagi- na following previous labour	Name of the last	Average	Just commenced	**		,,	-
10	Sept. 23	Dr. I. Tansini, Lodi, Italy	,,	37	2	Malacosteon	Bis-ischia- tic 1}in	3ft 5}in	days	"		,,	13
10	Sept. 20	Prof. von Weber, Prague Austria		23	Primipara	Rickets(pseudo malacosteon)		4ft lin	4 hours		Died 3rd day	Living (twins)	Peritonitis
10	8 Sept. 28	Dr. Pritzl, Vienna, Austria	"	39	2	Carcinoma of cervix	Normal	Average	3 hours	Unfavour- able	Died 7th day	Living (lived)	
10	Oct. 17	Prof. Carl von Braun-Fern wald, Vienna, Austria	- "	36	5 (last cra- niotomy)	Malacosteon	C.V. 3in	4 feet	,,	Favourable	Died 5th day	hour) Living	Diffuse peri- tonitis

Table I .- True Porro's Operations (continued).

Treatment of pedicle.	Dressing, ordinary or Listerian.	Duration of operation.	Special notes.	References.
of abdominal incision; Cintrat's serre-nœud, and two long-pins Kept out with Spencer Wells'	age		pedicle led to elastic ligature being applied	Aerztliches Intelligenz-Blatt, München, No.
clamp Kept out with Cintrat's serre-		40 mins	modification without elastic tube; manual compression	
nœud, and long pin Kept out with ecraseur chain and long pins		-	Uterus opened in situ. At necropsy two small pieces of sponge found in peritoneal	vol. 257. Communicated by Dr. Welponer to Prof.
Kept out with two pins; stitched in lower angle of wound	Listerian, with spray; drainage through abdominal wound and vagina		cavity Perforation already performed, but extrac- tion impossible	Communication direct from operator. Not published.
Kept out with Cintrat's constric- tor, and long pin	Listerian, with spray; no drain- age	50 mins	Uterus opened in situ. Cured in 18 days	Due Nuovi Casi di Taglio Cesareo, etc., per Dr. P. Negri, Milano, 1881, Information direct from operator.
Kept out with metallic ligatures applied with Cintrat's constric- tor, long pin, and stitched to lower angle of 'abdominal wound. Constrictor itself re-		50 mins	Uterus opened in situ. Cured in 20 days	.,
ature and Kaltenbach's needle	age		Adhesions of omentum to uterus. Perfo- ration previously performed, but extrac- tion impossible. Uterus opened in situ	L'Osservatore, Gazzetta delle Cliniche di Torino, 1882. Communication direct from operator,
nœud and two long pins	Imperfect Listerian, with spray; no drainage		_	New York Medical Record, April 8, 1882. In- formation direct from operator.
Fixed in lower angle of abdominal wound with serre-need, and metallic pin guarded with caoutchouc		15 mins	Travelled by rail from Remiremont to Nancy (63 miles) after five days in labour, foctus being putrid, and peritonitis commenced	
Kept out ; Chassaignac's écraseur chain left on	No spray; iodoform dressing		Müller's modification	Centralblatt für Gynäkol., 1882, No. 5.
ture, and long pin	Listerian; no spray; no drain- age			Intorno a quattro laparotomie, relazione dell Dott. v. Lauro. Communicated direct by operator.
between two Cintrat's wire ligatures			Müller's modification	Prager Med. Wochenschrift, vol. 7, 1882, p. 49. Communicated direct by operator.
chain	Listerian, with spray until ab- domen was opened	2000		Archiv für Gynäkologie, Bd. xx, Heft 1. Communication from Dr.Lumpe, assistant.
Kept out with silk ligature and long pin, and fixed in lower angle of wound	Listerian, with spray; no drain- age	20 mins	Patient was "leprous;" prolapse of the um- bilical cord before operation. Uterus opened in situ	Gazzetta Medica Italiana Prov. Venete, 1882, No. 22. Communicated direct by operator.
Kept out by Billroth's écraseur chain, and long needle above it		1½ hours	Mülter's modification; écraseur came away on 10th day	Archiv für Gynäkologie, Bd. xx, Heft 3. Communicated direct by operator.
Ligatured and dropped in		-	Uterus opened in situ	Communicated direct by operator. Fürst, Klinische Mittheilungen über Geburt und Wochenbett,
	" "	30 mins		" "
atured and dropped in	drainage tube through pedicle into vagina		before operation was resorted to; uterus opened in situ	
between two Cintrat's wire ligatures			Müller's modification	Prager Med. Wochenschrift, 1882, vii, p. 277. Communicated direct by operator.
hept out with 6craseur chain, and fixed in lower angle of wound	Listerian, with spray; nodrain- age		from typhus pellagrica, with the hope of saving the child. Uterus opened in situ	Not yet published. Communicated direct by operator.
n n	"		Müller's modification	Communicated direct by Dr. Kommerell, assistant to Prof. v. Saexinger.
Kept out with two silk and two wire ligatures, and long pin		-	Uterus opened in situ	L'Indipendente di Torino, Nov. 5, 1882, p. 733.
Kept out with Cintrat's serre- nœud and two long pins, and stitched to lower angle of wound Kept out with Péan's serre-nœud,		-	Müller's modification Uterus opened in situ; cured in 23 days	Archives de Tocologie, April, 1883, p. 240; Bulletin de l'Acad. de Médecine de Bel- gique, 3 sér., t. xvi, No. 11. Communication direct from operator. Gazzetta Medica Italiana Lombarda, Milano,
and stitched with silk to lower angle of wound Kept out. Fixed in lower angle of abdominal wound, with wire	Listerian	- Short	Müller's modification	1882, tom. 4. Communication direct from operator. Allgemeine Wiener Medizinische Zeitung, Jan. 9 and 16, 1883.
ligature round it Kept out with India-rubber tube, écraseur chain, and two long	Listerian : no spray during	-		Not published. Communicated direct by operator.
pins Dropped in on account of thinness of pedicle		1 hours		Not published. Communicated by Dr. Pritzl, assistant.

Table I .- True Porro's Operation (continued).

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No.	Date.	Operator and Locality.	Hospital or Private house.	Number of previous labours.	Cause of Difficulty.	Available pelvic space.	Height of Woman.	Time in labour before operation.	Condition of woman at time of operation.	Result to woman	Result to	Cause of death in woman.
110	1882 Nov. 23	Dr. Fochier, Lyons, France	Hosp.	42 13	Fibroid in neck of uterus	tweentmr		3 days	Unfavour- able	Recovery	Stillborn	-
111	Nov. 21	Prof. Dohrn, Marburg, Ger- many	,,	38 Primipara	Rickets(pseudo malacosteon)	& symphs. C.V. 25in		10 hours	Favourable	Died in 90 hours	Living	Septicemia
112	Nov. 27	Dr. Clement Godson, London, England	P. ho.	24 ,,	Deformed pel- vis from being crushed in childhood		4ft 4in	Not commenced (about 12 days before	,,	Recovery		-
113	Dec. 2	Prof. R. Novi, Naples, Italy	Hosp.	24 ,,	Rickets	C.V. 2in	3ft 6in	term)	Not Favourable		.,	-
114	Dec. 7	Prof. Porro, Milan, Italy	,,	1 (crani- otomy)	"	C.V. 25in	5 feet	Membranes had rup- tured2hours	Unfavour- able	Died 3rd day	**	Strangulation of intestine from adhesion of a knuckle to cic- atrix of abdomi-
115	Dec. 8	Dr. Galabin, London, England		35 Multipara	Cancer of cer- vix and pelvic cellular tissue	Normal	Medium	12 hours : la- bor induced shortly be- fore term	Unfavour- able from disease	Died on 4th day	"	nal wound Septic peritonitis
116	Dec. 14	Prof. Kehrer, Heidelberg. Germany	P. ho.	12 12	Malacosteon	sacro-cot.,		16hours;(14 hours after	Very unfavourable	Recovery	Stillborn	-
117	Dec. 20	Dr. A. Barsotti, Lucca, Italy	Hosp.	38 7		1¼in C.V. 2¼ in bis-ischia- tic 1¼in	Medium	watersbrke) 2 hours after waters broke	Unfavour- able	Died in 24 hours	Living	Shock
118		Dr. Heywood Smith, London, England	W.ho.	20 Primipara	Rickets	C.V. 1 in	Short	48 hours	"	Died in 4 days	Stillborn	Sloughing of vagina
119	Jan. 15	Dr. Kabierski, jun., Breslau, Germany	P. ho.	32 4 (3 erani- otomies)	"	C.V. 2lin	**	A few hours	Favourable	Recovery	Living	-
120	Mar. 24	Prof. A. Martin, Berlin, Austria	Privt. hospl.	Primipara	mity of skele- ton. Severe	C.V. 21 in.	3ft 10in	Not commenced	Very unfavourable	"		
121	Mar. 28	Prof. Porro, Milan, Italy	Hosp.	29 ,,	Rickets	C.V. 3in	3ft 9in	**	Favourable	**.	**	- 4
122	April 19	Prof. Gustav Braun, Vienna, Austria	**	38 3	Malaeosteon	C.V. 13in	-	About 30 hours	Unfavour- able	Died on 4th day	11	Septic peritonitis
123	April 25	Prof. Carl von Braun-Fern- wald, Vienna, Austria	"	23 Primipara	Rickets	C.V. 21in	4ft 4in	Not commenced	Favourable	Recovery		-
124	April 26	waru, vienna, Austria	**	32 ,,	,,		4ft lin	**	,,		Stillborn	-
125	May 1		,,	39 1	Malacosteon	Obstruc- tion at	-		"	.,	Living	-
126	May 3	Dr. Celso Bonora, Reggio- Emilia, Italy	P. ho.	13 Primipara	Rickets	outlet C.V. 2in	4 feet	3 days	"	Died on 3rd day	Stillborn	Septic peritonitis
127	May 6	Dr. G. Previtali, Bergamo, Italy	Hosp.	39 10 (natural)	Malacosteon	Bis-ischia- tic, 1½in	4ft 7in	6 hours	,,	Recovery	Stillborn (from pro- lapse of umbilical cord)	
128	May 17	Prof. Porro, Milan, Italy	**	35 Primipara	Rickets	C.V. 2}in	3ft 3in	Not begun	Feeble	"	Living	_
129	June 7	Dr. Borsini, Piacenza, Italy		35 1	Arthritis defor-	C.V. 21in	Medium	About 4	Very	Died in 35 hours		Septic peritonitis
130	June 8	Prof. O. Morisani, Naples, Italy		20 Primipara	mans Rickets	C.V. 2 1 in	4ft lin	pletion of	unfavourable Favourable	Died on 4th day	"	peritonitis "
131	June 17	Dr. Franzolini, Udine, Italy		34 ,,	**	C.V. 2§in	4 feet	first stage 50 hours ; 26 hours after	"	Recovery	"	-
132 133	June 28 June 29	Prof. Porro, Milan, Italy Dr. Wm. H. Parish, Philadel- phia, U.S.A.		M	Rickets (dwarf pelvis)	C.V. 2in C.V. 3in	4ft 4in 4ft 3in	Not begun Not commenced (8) months	Not favour- able (albumi- nuria)	Died in 38 hours	::	Shock and ex- haustion; neph- ritis
134	Aug. 24	Dr. Clemente Boni, Castel s. Nicolò, Italy	P. ho.	25 1 (symphy seotomy &		C.V: 23in	Short	pregnant) 20 hours	Unfavour- able	Died on 20th day	Stillborn	Cerebralanæmia
135	Aug. 29	Prof. A. Martino, Naples, Italy	Hosp.	forceps)		C.V. 23in	3ft 5in	Not commenced	Favourable		Living	-
136	Sept. 18	Prof. Kehrer, Heidelberg, Ger- many	"	38 5	Carcinoma cervix uteri	Pelvisnor- mal c.can. less than	4ft 6in	(8½ months pregnant) 46 hours	Very unfavourable	Died in 64 hours	"	Septic peritonitis
137	Sept. 30	Prof. M. Frari, Padua, Italy	.,	30 Primipara	Rickets	1 inch C.V. 2½ in	4ft 2in	8 hours	Favourable	Died in 7 days		"
				1							17-18	

Table 1.—True Porro's Operations (continued).

Kept out it faced in lower angle disterian, with spray; no drainage and two long pins; also china silk agature Listerian, with spray; no drainage and two long pins; also chinasilk agature Listerian, with spray; no drainage and two long pins; also chinasilk agature Listerian, with spray; no drainage and two long pins; also chinasilk agature Listerian, with spray; no drainage and two long pins; also chinasilk agature Listerian, with spray; no drainage Listerian with spray; no drainage Listerian with gray; no drainage Listerian with spray; no drainage Listerian; with spray; no drainage Listerian; with sp							
de Troologie, June 1883. Kept out with charic tube Kept out with Keberle's serve- nored and two long pins Aller's modification Communicated direct by organization of with properties of the following pins Kept out with Keberle's serve- nored and two long pins Aller's modification Kept out with Cintrat's constriction, and long pin Kept out with Keberle's serve- nored and two long pins Kept out with Keberle's serve- nored, and two long pins Kept out with thread lighture, and stitched to partial peritoneum, and two long pins Kept out with with properties Kept out with classification Kept out with with properties Kept out with classification Kept out with classification Kept out with classification Kept out with with properties Kept out with classification	ces.	References.	Special notes.	Duration of operation.	Dressing, ordinary or Listerian.	Treatment of pedicle.	
of wound, with elastic tuke, around it around and two long pins; also clinically lighter and long pin. Kept out with Cintrat's constrictor, and long pin. Kept out with Keberle's servenced, and two long pins is also clinically in the particular and long pin. Kept out with Keberle's servenced, and two long pins around it around it is a many control in a many control in two portions with thread lighter, and stiched to particular peritoneum statiched or particular peritoneum statiched				-	Listerian, with spray	ept out; fixed in lower angle of wound	K
while abdomen was open; no drainage Laterian, with spray; no drainage Laterian with spray; no drainage Laterian, with spray; no drainage Laterian, with spray; no drainage Laterian with spray; no drainage Laterian, with spray; no drainage Laterian with spray; no drainage Laterian, with spray; no drainage Laterian with spray; no drainage Laterian, with spray; no drainage Laterian with spray; no dra	by Dr. Rumpe,	Communicated direct by assistant. BRITISH MEDICAL JOURNAL	came out before uterus was opened, and was with difficulty returned iterus opened in situ. Twenty days after operation was on sofa, and left the house		age Listerian, with spray; no drain-	of wound, with clastic tube around it ept out with Koeberle's serre nœud and two long pins; also	Ke
Teel in two portions with thread ligature, and stitched to parie tal pertioneum septions with thread ligature, and stitched to parie tal pertioneum septions with the fundus. Patient died 76 days after operation of chronic Bright-Sdisease to post with Keeberle's servenced, and two long pins Ligatured and dropped in Designation of chronic Bright-Sdisease to pertion of chronic Bright-Sdisease to post with Keeberle's servenced, and two long pins Ligatured and dropped in Designation later and chain left on Designation and two long pins Designation and the pink of the pink of the fundus. Page 10 to the fundus. Page 12 to the fundus. Page 13 to the fundus. Page 14 to the fundus. Page 15 to extract Miller's modification. Tedius recovery from Centralblatt für Gynakol., Designation and two long pins Designation	munication direct a Lombarda, serie	iche. Anno v. Commun from operator. Gazzetta Medica Italiana Lo 8, tom. 4, 1883. Communic	after application of wire ligature . Iterus opened in situ. Top portion of con-		while abdomen was open; no drainage Listerian, with spray; no drain-	tor, and long pin	
Ligatured and dropped in Communicated direct by control of chronic Bright's disease to the formation of chronic Bright's disease to the control of chronic	operator. Not yet	Communicated direct by oper published.	iterus opened in situ	35 mins	" "		
Ligatured and dropped in Listerian: room sprayed before operation; no drainage Peritoneum stitched over it, and dropped in dropped in through Douglas' pouch Kept out by Cintrat's constriction lower angle of wound, and exaseur and chain left on the proof of the control of th	dberg, 1883, Com- a operator. farch 39, and April ation direct from	Kaisersch. Diss. Heidelberg munication direct from oper Imparziale di Firenze, March 15, 1883. Communication operator.	the fundus. Patient died 76 days after operation of chronic Bright's disease terus opened in situ. No anæsthetic given. Richardson's ether spray instead. Cavity in lung, hypertrophied l. ven. being dia- gnosed before operation and verified at n.m.	45 mins		ligature, and stitched to parie- tal peritoneum eptout with wire ligature appli- ed by Cintrat's constrictor, and long needle surrounded by car- bolised elastic band in shape of 8	Ke E
Peritoneum stitched over it, and dropped in through Douglas' pouch alarming and pulmonary catarity. Uterus opened in situ. I hour Müller's modification Communicated direct by Douglas' pouch and the situ of the situ opened in situ Department operation Department of the situ opened in situ Department operation Department opera	ol., May 5 and 12,	Communicated direct by open published. Centralblatt für Gynäkol., M	fuller's modification. Cephalotripsy had been performed, and unsuccessful efforts to extract fuller's modification. Tedius recovery from		Listerian ; room sprayed before	nœud, and two long pins	1
Sept out with clastic tube, écraseur and chain left on listerian, with spray; no drainage lasterian dressing: no drainage la	ol., No. 36, 1883,	tor, Centralblatt für Gynäkol., Communication direct from	ing cold, not septic revious to operation patient suffering from alarming orthopnox due to endocarditis valvularis and pulmonary catarrh. Uterus	36 mins	Listerian with spray : drainage	ritoneum stitched over it, and dropped in	Per
Kept out with Cintrat's constrictor of the constric		Communicated direct by Dr. '	edicle long time in separating. Uterus opened in situ	-	age Room sprayed before operation;	tor xed in lower angle of wound,	Fis
Kept out with Cintrat's constrictor (latest form) and two long pins Fastened in lower angle of wound, elastic ligature surrounding it, transfixed by long pins Kept out with Cintrat's constrictor in odrainage Listerian; no drainage Listerian, with spray; no drainage Listerian; no drainage Listerian, with spray; no drainage Listerian; n	Dr. Pritzl, assist-	Communicated direct by Dr.	füller's modification			ept out with clastic tube, écra-	Ke
Kept out with Cintrat's constriction of wire ligature published. Listerian, with spray: no drainage age after application of wire ligature after application after application of wire ligature after application after application of wire ligature after application after application after application after application of wire ligature after application after application after application after application after application of wire ligature after application	EE3	ant.	n hospital 5 weeks before operation; Mül- ler's modification; child asphyxiated	1 hours		and the second s	
Fastened in lower angle of wound, elastic ligature surrounding it, transfixed by long pins Kept out with Cintrat's constrictor Kept out with Cintrat's constrictor Kept out with Cintrat's constrictor Rept out with Cintrat's constr	"		faller's modification	1 hour			
Fastened in lower angle of wound, elastic ligature surrounding it, transfixed by long pins Kept out with Cintrat's constrictor Kept out with Cintrat's constrictor Kept out with Cintrat's constrictor Rept out with Cintrat's constr	y operator. Not	Communicated direct by opublished.	terus opened in situ. Constrictor removed after application of wire ligature	43 mins	age	pins	T T
Kept out with Cintrat's constrictor and long pin """ Room carbolised; no spray while abdomen was open; Listerian dressing Ligatured and kept out with pins operation; Listerian dressing Ligatured in two portions with strong silk and transfixed by Listerian, without spray long pin Ligatured in two portions with strong silk and transfixed by long pin age 1 hour 1 hour 1 hour 2 months before operation; Lister in hospital on 23rd day, nursing baby at breast 2 months before operation 3 mins 4 mins 4 m	Bergamo, May 19, lirect by operator.	Gazzetta Provinciale di Berg 1883. Communicated direct	terus opened in situ. Left hospital cured in 40 days	45 mins	Listerian ; no drainage	stened in lower angle of wound, elastic ligature surrounding it.	Fas
To and long pin """ """ """ """ """ """ """	amunicated direc	Not yet published. Commun by Dr. Truzzi, assistant.	terus opened in situ	25 mins	Listerian, with spray; no drain- age	tor	t
Room carbolised; no spray while abdomen was open; Listerian dressing Ligatured in two portions with strong silk and transfixed by leng pin in spray leng pin	operator.	Communicated direct by opera	operation		" "	for and long pin	Ke
Ligatured in two portions with strong silk and transfixed by leng pin abdomen was open; Listerian adversing abdomen was open; Listerian dressing Listerian, with spray adversing Listerian, with spray during operation; Listerian dressing Listerian, without spray adversing operation; Listerian dressing Listerian, without spray adversing baby at breast day, nursing baby at breast day, nursing baby at breast tor. Ligatured in two portions with strong silk and transfixed by listerian, without spray strong silk and transfixed by leng pin listerian, without spray there are day, nursing baby at breast day, nursing baby at breast tor. Ligatured in two portions with strong silk and transfixed by listerian, without spray there are day, nursing baby at breast day, nursing baby at breast tor. Ligatured in two portions with strong silk and transfixed by listerian, without spray there are day, nursing baby at breast tor. Ligatured in two portions with strong silk and transfixed by listerian dressing listerian and			terus opened in situ	30 mins	" "	" "	
Ligatured and kept out with pins Room carbolised; no spray during operation; Listerian dressing Ligatured in two portions with strong silk and transfixed by leng pin 1 Listerian, without spray leng pin 1 Listerian, without spray leng pin 1 Listerian, without spray 2 Listerian, without spray 1 Listerian, without spray 2 Listerian, without spray 2 Listerian, without spray 3 Listerian, without spray 2 Listerian, without spray 3 Listerian, without spray 3 Listerian, without spray 2 Listerian, without spray 3 Listerian, without spray 3 Listerian, without spray 2 Listerian and spray 2 Listerian and spray 3 Listerian, without spray 3 Listerian, without spray 3 Listerian and spray 3		1883. Communication direc	üller's modification; left hospital on 23rd day, nursing baby at breast	48 mins	abdomen was open; Listerian	" . "	
strong sik and transfixed by tion, and alarming anti-partum harmor-	or.Truzzi,assistant. y Dr. Harris, of	Communicated direct by Dr.Tru Communicated direct by Dr.	üller's modification; patient in hospital	1 hour	Listerian, with spray Room carbolised; no spray during operation; Listerian	gatured and kept out with pins	Lig
whose	Dr. Peruzzi,	Communicated direct by Dr. F	tion, and alarming anti-partum hæmor-	50 mins	Listerian, without spray	strong silk and transfixed by	9
Kept out with Cintrat's constric- ,, with spray 45 mins Uterus opened in situ Review of the University		Review of the University of tember, 1883. Communicat Dr. C. Olivieri.	rhage terus opened <i>in situ</i>	45 mins	" with spray	ept out with Cintrat's constric-	Ke
Kept out. Fastened with radiating stitches to edges of abdominal wound Listerian with spray. Capillary drainage	operator.	Communicated direct by opera	and fixed in pelvis that total extirpation	1 hours	Listerian with spray. Capillary drainage		
and 10, 1883. Gazzetta M	Medica Provincie	Annali di Ostetricia, etc., M and 10, 1883. Gazzetta Med Venete, Padova, 1883. Comr	terus opened in situ	1 hour	Listerian with spray	pt out with Cintrat's con- trictor	Ken

Table II.—Utero-ovarian Amputations during Pregnancy, but before the Fatus

Date.	Operator and Locality.	Hospital or Private House.	Age.	Number of previous labours.	Cause of difficulty.	Space between tumour and symphysis pubis	Advanced in preg- nancy.	Condition of woman at time of operation.	Result to woman	Cause of death in woman.
1880 March 2	Prof. Kaltenbach, Freiburg, Germany	Hosp.	32	Primipara	Fibro-myoma of uterus	4 inches	22 weeks	Strength much reduced by uterine hamor- rhage and vomiting	Recovery	
Mar. 18	Prof. Wasseige, Liège, Bel- gium	,,	35	(1 abortion)	Cystic fibro-my- oma of uterus	-	18 weeks	Favourable	Died on 5th day	Peritonitis
Aug. 16 1882	Prof. D. Hayes Agnew, Phila- delphia, U.S.A.	P. ho.	44	Primipara	Fibro-myoma of uterus	Filled the entire pelvis	6 months	Had been 5 days in labour	Died in 64 hours	Vomiting and exhaustion
July 12	Mr. J. Knowsley Thornton, London, England	Hosp.	38	(1 abortion)	"		About 4½ months	Anæmic and emaciated	Recovery	_
July 13	Dr. T. Savage, Rugby, England	P. ho.	25	Primipara	**	=	16 weeks	Favourable	"	-

Table III.—Operations for Removal of Fatus from Abdominal Cavity by

No.	Date.	Operator and Locality.	Hospital or Private house.	Age	Previous confinements.	Time of operation after rupture.	Condition of woman.	Result to woman.	Result to
2	1880 Feb. 12 1881	Dr. Oscar Prévôt, Moscow, Russia Dr. Säxinger, Tübingen, Germany Prof. E. Pasquali, Rome, Italy	Hospital	33 20 38		10 hours 6 hours 2 days in labour. Time after rupture not given		Died on 5th day Died 33½ hours after operation Died in 24 hours	Dead before operation "
	1882	Dr. Federico Fornari, Ascoli Piceno, Italy Dr. Marchand, Paris, France	Private house Hospital	27 26	Not known	12 hours in labour Time after rupture not given 1§ hours	Very unfavourable Miserably bad	Died in 51 hours Died same day	
-6	Nov. 2	Dr. Grigg, London	.,	25	2	22 hours	In state of collapse	Died in 15 hours	,,

APPENDIX. - Cases omitted from

No.	Date.	Operator and Locality.	Hospital or Private house	Age.	Number of previous labours.	Cause of Difficulty.	Available pelvie space,	Height of woman.	Time in labour before operation.	Condition of woman at time of operation.	Result to Woman.	Result to child.	Cause of death in woman.
1		Dr. Horatio R. Storer, Boston, U.S.A.	P. ho.	37	Primipara	Fibro-cystic tumour of the uterus	1½ inch	Ordinary	3 days	Fair	Died in 68 hours	Stillborn (putrid)	Septicemia
2	1880 Feb. 14	Prof. C. C. Th. Litzmann, Kiel, Germany	Hosp.	39	2	Retention of putrid fœtus in horn of bi- corned uterus	Normal	"	Not commenced	"	Died on 3rd day	"	Septic peritonitis
3	June 14	Dr. M. Salin, Stockholm, Sweden	"	22	Primipara	**	"	**	.11		Recovery	. 0	-
4	1881 March 7	Dr. Warren, Sydney, New South Wales	,,	32	-	Fancied tubo- ovarian preg- nancy at eighth month	,,	,,	,,	,,	Died on 2nd day	-	Peritonitis

was viable, which have been tabulated elsewhere as true Porro's Operations.

Uterus opened?	Treatment of pedicle.	Dressing, ordinary or Listerian.	Duration of operation.	Weight of tumour.	Special notes.	Reference.
No	Ligatured, and kept out by two long pins	No drainage	75 mins	67 lbs.		Centralblatt für Gynäkol., 17 July, 1880, Communication direct from operator.
No	Ligatured, sutured, and dropped in	Listerian, with spray; no drainage	1 hours	9 lbs.	Écraseur chain put on provision- ally	Bull. de l'Acad. roy. de Méd. de Belgique, t. xiv, 3me série, No. 4. Communica- tion direct from operator.
No	Ligatured, and then secured with a large clamp	Carbolic spray; modified Lis- terian dressing	2 hours	-	Fœtus putrid	Information from operator through Dr. Harris.
No	Kept out by Koeberle's serre- nœud, and two long pins	Listerian, with spray	75 mins	-	dered diagnosis doubtful as to its being ovarian or fibro-	
No	Clamped, ligatured, and stitched to lower angle of wound	,, ,,	1⅓ hours	9 lbs. (in- cluding uterus and its contents	myoma	British Medical Journal, September 2, 1882.

Laparotomy, followed by Amputation of Ruptured Uterus, with Ocaries.

Cause of death in woman.	Treatment of pedicle.	Dressing, ordinary or Listerian.	Duration of operation.	Reference.
Frequent hæmorrhages from pedicle Collapse; gangrene of uterus and vagina Septicæmia Peritonitis	Kept out by Péan's serre-nœud beneath which silk ligature Extraperitoneal: Cintrat's serre-nœud Dropped in	Listerian Listerian, with thymol spray; no drainage Listerian, no spray; drainage through Douglas' pouch and abdominal wound ""	45 minutes 70 minutes 1 hour	American Journal of Obstetrics, October, 1880; Harris. Communication from operator through Dr. Boethelt of St. Petersburg. Communication direct from operator. Annali di Ostetricia di Milano, 1881, vol. iii. Due ooforistorectomie Cesaree, etc., per il Dott. A Bompiani. Milano, 1881. Raccoglitore Medico di Forli, 1881, vol. xv; L'In- dipendente di Torino, April 15, 1881.
Exhaustion	Stitched in lower angle of wound; Chassaignac's écraseur chain Extraperitoneal; Kœberlé's serre-nœud and two long pins	"	45 minutes 23 hours	Communication direct from operator.

Table I, for reasons assigned.

Treatment of pedicle. Dressing, ordin	nary or Listerian.	Special notes.	References.
Constricted by double metallic Ordinary ligature through pedicle, and clamp-shield Constricted with wire ligature Listerian wit applied with Pean's constrictor and transfixed with two long pins Kept out with catgut ligature Listerian with Whole uterus with corvix re-Listerian with	spray; glass —	after full term of pregnancy. Uterus du plex. Müller's modification Operation performed five months after ful term of pregnancy. Uterus opened is situ. One cornuof a bifid uterus removed other part of uterus left	s Retention einer ausgetragen Frucht in dem unvollkommen entwickelten Horne eines uterus bicornis, von Dr. Werth. Ar- chives für Gynäkologie, Band xvii, Heft ii. I Kaiserschnitt nach Porro uterus duplex. Centralblatt für Gynäkologie No. 9, 1881.
moved. Upper part of vagina ligatured with silk and dropped in	h abdominal wall	under the belief that it was an extra uterine cyst. Error only discovered after wards	BRITISH MEDICAL JOURNAL, August 27th

PORRO'S OPERATION.

SIR,-Will you permit me, as my paper is going to press, to record

SIR,—Will you permit me, as my paper is going to press, to record another operation, of which I have only just received notice?

TABLE I. Case 138. Date: October 11th, 1883. Operator: Dr. H. Fehling, of Stuttgart. Patient's age: 33. Number of previous inhours: Seven. Cause of difficulty: Failure to turn in arm-presentation on account of contracted pelvis from osteomalacia. Arailable pelvic space: C. V., two and a half inches; bisischiatic, one and three-quarter inches. Time in labour before operation: Fourteen hours. Result to roman: Recovery. Result to child: Living. Treatment of pedicle: Extraperitoneal transfixed by long pin, surrounded by elastic ligature. Reference: Centralblatt für Gynäkologie, 1884. No. 2.

No. 2.

This makes Dr. Fehling's fourth operation, with three recoveries.

This makes Dr. Fehling's fourth operation, with three recoveries. The 138 cases are distributed among no fewer than 80 different operators. The results of three of the most successful are as follows.

Professor Porro (Milan) Professor Breisky (Prague) Dr. H. Fehling (Stuttgart)	 Cases. 5 4 4	Recoveries.	Deaths. 1 0 1
Yours faithfully,	13	11 CLEMENT G	odson.

Note.-In this reprint the figures in the argument have been altered so as to include this and the other operations which have aken place since the paper was read.

Alpendix of additional cases

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PORRO'S OPERATION: A SUPPLEMENT. By CLEMENT GODSON, M.D., Consulting Physician to the City of London Lying-in published in the JOURNAL of January 26th, 1884. They contain those cases which were omitted, and those which have since 56.57 per cent., a little higher than that recorded in the original table.

Table I.—True Porro's Operations.

									_			
No.	Date.	Operator and Locality.	Hospital or Private House.	Number of previous labours.	Cause of difficulty.	Available pelvic space.	Height of Woman.	Time in labour before operation.	Condition of woman at time of operation.	Result to woman.	Result to child.	Cause of death in woman.
138	1880. March	Dr. Laroyenne, Lyons, France	Hos.	30 1	Occlusion of va- gina from cica- trices		-	A few days before term		Died on 3rd day	Living	Peritonitis
139	Nov.	Dr. Fochier, Lyons, France	33	38 Primipara		11	Very	2 days	***	31	Stillborn	Septic
140	1883. Oct. 11	Dr. H. Fehling, Stuttgart, Germany	"	33 7	Failure to turn in arm presen- tation because of contracted	bisischia- tic 13 in.	short —	14 hours	-	Recovery	Living	peritonitis —
141	1884. Jan. 9	Professor J. Späth, Vienna, Austria	"	38 8	pelvis from os- teomalacia Osteomalacia	_	_	15 hours after waters broke	Very weak & emaciated	,,	"	-
142	Jan. 25	Dr. H. Fehling, Stuttgart, Ger- many	33	32 7	Rickets	1½ in.	4ft. 7in.	12 hours	Favourable	,,,	"	-
143	Jan. 30	Professor Simpson, Edinburgh, Scotland	11	- 1	Fibroid tumour of lower seg- ment of uterus	1½ in.	Average	18 hours	Very unfavourable	Died	Stillborn	Peritonitis
144	Jan. 30	Professor Tibone, Turin, Italy	33	18 Primipara.	filling pelvis Rickets	1½ in.	4ft. lin.	38 hours	Favourable	Recovery	Living	-
145	Feb. 14	Dr. Herman, London, England	11	29 ,,	**	1½ in.	Short.	48 hours	Unfavourable	Died on 10th day	11	Tubular nephri- tis, ædema of lungs. Slight local peritonitis
146	April 10	Professor Léon Dumas, Paris, France	33	30 Primipara	Rickets	C, V, 2\frac{1}{4} in.	3ft.10in.	4 hours	Favourable	Died on 6th day	"	Peritonitis
147	May 3	Dr. Sänger, Leipzig, Germany	33	40 ,,	Myomata	-	-	Not in labor	Febrile	Died on 3rd day	Putrid	Septicæmia
148	June 28	Professor J. Spath, Vienna, Austria	"	31 5	Osteomalacia, spondylisthesis	-	-	3 days	Unfavourable	Died on 6th day	Living	Peritonitis
149	Sep. 11	Dr. Fancourt Barnes, London, England	"	28 Primipara	Dermoid cystic tumour in pelvis		Medium	48 hours, 40 hours after waters broke		Died on 5th day	"	Septicæmia
150	Oct. 23	Dr. Vincenzo Lesi, Imola, Italy	**	28 ,,	Rickets	åC.V. 2∮in.	4ft Sin.	10hrs.waters broke 8 hrs.	Favourable	Recovery	"	-
151	Nov. 13	Professor Fritsch, Breslau, Germany	"	27 ,,	11	C.V. 23in.	4 ft. 1 in.	Not commenced	Ansemie	Recovery	Living	-
152	Dec. 2	Dr. M. Handfield-Jones, Lon- don, England	P. ho.	36 ,,	Subperitoneal fi- broid impacted in pelvis		About 4ft.10in.	27 hours	Unfavourable	Died on 3rd day.	Stillborn	Peritonitis

Hospital; Assistant Physician-Accoucheur to St. Bartholomew's Hospital. The subjoined tables are contributed as an Appendix to those occurred. The true Porro's operations now amount to 152; of these there are 66 recoveries and 86 deaths, which gives a mortality of

Table I .- True Porro's Operations (continued).

Treatment of pedicle.	Dressing ordinary or Listerian.	Duration of operation.	Special Notes,	References.
Fixed in lower angle of wound surrounded by elastic ligature	Listerian	45 mins	2-	Discussion of Society of Medical Societies in Lyons.
Kept out. Fixed in lower angle of wound Extraperitoneal; transfixed by long pin surrounded by elastic ligature		36 mins	Uterus opened in situ —	Communication direct from operator. Centralblatt für Gynäkologie, 1884, No. 2.
Kept out with Billroth's écraseur and two long needles	Listerian. No spray	40 mins	Chain fell from pedicle on 13th day	Archiv. für Gynäkologie, 23 Band, Heft 2, 1884.
Transfixed by long pin surrounded by elastic ligature Kept out with Lawson Tait's clamp		-	The bulging tumour caused tension on the pedicle and prevented drainage. Removal of tumour impossible. Muller's modifica-	Communication direct from operator. Not yet published. Edinburgh Medical Journal, July, 1884. Com- munication from Dr. Barbour.
Transfixed with Kaltenbach's needle and elastic ligature ap- plied through centre of pedicle Kept out with Lawson Tait's clamp			tion Uterus opened in situ. Woman left hospital well, March 15 Uterus opened in situ	Communication direct from operator. Annali di Obstetricia, No. 2 and 3, 1884. Not yet published. Communicated direct from operator.
Kept out with Cintrat's constric- tor and two long pins	Listerian with spray	1½ hours	Uterus opened in situ	Annales de Gynécologie, October, 1884.
Fixed in lower angle of abdominal wound by Hegar's method	Listerian	-	was undertaken. Uterine walls contained	Not yet published. Communication direct from operator.
Kept out with écraseur chain	Listerian without spray. No drainage	1 hour	six myomata Uterus opened in situ	Information from Dr. Ehrendorfer. Not yet published.
Kept out with Koeberle's serre- noud and two long pins	Listerian without spray	30 mins	Uterus opened in situ. Placenta removed before serre-nœud was applied	Communication direct from operator.
Ligatured and stitched to abdom- inal wound, ligature of both broad ligaments below ovaries	Listerian	35 mins	Pedicle did not unite very satisfactorily at first and gave considerable trouble	Communication direct from operator,
Ligatured and dropped in after application of iodoform Fixed in lower angle of wound with Koeberle's serre-nœud and two long pins	Listerian with spray		Müller's modification. Patient left Hospital well on 15th day Tumour freed from adhesions and removed with uterus. Attempts to raise tumour per vaginam failed. Craniotomy also failed	Heilbrun. Not yet published. Information direct from

Table II.—Utero-ovarian Amputations during

No.	Date.	Operator and Locality.	Hospital or Private House.	Age,	Number of previous labours.	Cause of difficulty.	Space between tumour and symphysis pubis	Advanced in pregnancy.	Condition of woman at time of operation.	Result to woman.	Cause of death in woman.
6	1877 Jan. 7	Dr. Robert Barnes, London	P. ho.		Primipara	Fibro-myomata of uterus	Hardly any	2 months	Greatly prostrated. Suf- fering from peritonitis	Died in 30 hours	Shock and peri- tonitis
7	1883 Jan. 13	Professor Schröder, Berlin	Hosp.	40	19	13	,,	3 menths	Favourable	Recovery	-
8	Sept. 15	Dr T. Savage, Birmingham	,,	22	1	Occlusion of vagina from	-	6 months	"	n	-
9	1884 Jan, 17	Dr. George Fortescue, Sydney New South Wales	,,	21	Primipara	sloughing after previous labour Ovarian cystoma	Normal	5 months	, ,,	.,	-
10	June 23	Professor Schröder, Berlin	,,	34	"	Large fibro-my- oma of uterus	Hardly any	2½ months	**		-

Table III.—Operations for Removal of Factus from Abdominal Cavity by

No.	Date.	Operator and Locality.	Hospital or Private house	Age	Previous confinements.	Time of operation after rupture.	Condition of woman.	Result to woman.	Result to child.
7	1883. Dec. 18	Dr. Luigi Violani, Forli, Italy	Private house	27	3	12 hours	In state of collapse	Died in 48 hours.	Dead before operation.

Table IV.—Cases omitted from

No.	Date.	Operator and Locality.	Hospital or Private house.	Age.	Number of previous labours.	Cause of Difficulty.	Available pelvic space.	Height of woman.	Time in labour before operation.	Condition of woman at time of operation.	Result to Woman.	Result to Child.	Cause of death in Woman.
	1882. Oct. 2	Dr. M. Sänger, Leipzig, Ger- many	Hosp.	21	2	Retention of a macera- ted feetus in the left horn of a bicornered uterus		Ordinary	Had labour pains for 12 hours 9 weeks be- fore opera- tion		Recovery	Stillborn macerated	_

Pregnancy, but before the Fætus was viable.

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Uterus opened?	Treatment of pedicle.	Dressing, ordinary or Listerian.	Duration of operation.	Weight of tumour.	Special notes.	References.
No	Ligatured with strong whip-cord and dropped in		-	-	Uterus was compressed between two fibroid tumours, the larger locked in the pelvis, the smaller projecting over the symphysis publis	operator.
No	Dropped in		-	-		
No	Kept out with clamp	Ordinary	1 hour	-	*	Birmingham Medical Review, Nov., 1883. Communication direct from operator.
Yes	Kept out with Spencer Wells's clamp	Listerian dressing; no spray. Drainage tube through abdomi- nal wall	1½ hours	-	Uterus was removed because it was wounded during ovario- tomy. The uterus was punc- tured believing it to be a second ovarian cystoma	
No	Dropped in		_	-		

Laparotomy, followed by Amputation of Ruptured Uterus, with Ovaries.

Cause of death in woman,	Treatment of pedicle.	Dressing, ordinary or Listerian.	Duration of operation.	Reference.
Septic peritonitis	Extraperitoneal; Cintrat's serre-nœud	Imperfect Listerian	40 minutes	Raccoglitore Medico di Forli, 1883, vol. xx, p. 654.

Table I, for reasons assigned.

Treatment of pedicle.	Dressing, ordinary or Listerian.	Duration of operation.	Special Notes.	Reference,
Peritoneum stitched over stump with 8 silk sutures; pedicle dropped in constricted with elastic ligature		1½ hours	Operation performed 9 weeks after death of fectus, when separation of a decidua oc- curred, with symptoms of internal hæmor- rhage and peritonitis	

