On the treatment of pregnancy complicated with cancerous disease of the genital canal / by G. Ernest Herman.

Contributors

Herman, G. Ernest 1849-1914. Royal College of Surgeons of England

Publication/Creation

London: Printed by J.E. Adlard, 1879.

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TREATMENT OF PREGNANCY

COMPLICATED WITH

CANCEROUS DISEASE OF THE GENITAL CANAL.

BY

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[From Volume XX of the 'Transactions of the Obstetrical Society of London.']

LONDON:

J. E. ADLARD, BARTHOLOMEW CLOSE.
1879.

ON THE TREATMENT OF PREGNANCY COMPLICATED WITH CANCEROUS DISEASE OF THE GENITAL CANAL.

By G. Ernest Herman, M.R.C.P. Lond.,
ASSISTANT OBSTETRIC PHYSICIAN TO THE LONDON HOSPITAL.

I BEGIN by narrating two cases which have occurred under my own care:

Case 1.—Cancerous tumour of rectum, obstructing delivery; cephalotripsy; peritonitis; death.

(From notes by Mr. T. MARK HOVELL, Resident Accoucheur.)

M. B—, æt. 30. Had had seven children, the last a year and nine months ago, the labour lasting about seven hours. Ten days after the confinement she began to have diarrhæa, which lasted on and off for about eleven months; for the last ten months fluid discharge from the bowel had been so constant as to prevent her from walking about.

I was called to her by Dr. Niblett, of Hackney, on account of the obstruction to labour caused by malignant disease of the rectum. She had reached, or nearly reached, the full term of pregnancy. She was without delay taken into the London Hospital. On examination per vaginam, a hard fixed tumour was felt projecting into the pelvis from behind. The antero-posterior diameter of the space left between this mass and the anterior pelvic wall, was, as nearly as could be ascertained, about 13 inches, there being room for two fingers to lie side by side in this diameter. In the lateral measurement, there was room for the whole hand. The os uteri was healthy, and so was, to the touch, the vaginal mucous membrane. Examination per rectum showed that the wall of the bowel was converted into a firm, hard, irregularly ulcerated mass.

July 13th.—About 12.45 a.m. the os having reached nearly full dilatation, the patient was put under ether. The membranes were then ruptured, the head perforated, and then repeatedly seized and crushed with the cephalor tribe, first in one direction, then in another, the position of the head being with ease altered (between the applications of the instrument) by bimanual manipulation. After a good deal of crushing, the head was extracted in the grasp of the cephalotribe. But it was found so difficult to drag the trunk and arms through the pelvis, that the head was detached with scissors, the trunk then pushed up, the feet brought down, and extraction thus accomplished. The placenta was expressed without difficulty. The labour was completed about 3 a.m.

Just after the ether was withdrawn, the patient became very pale, and the pulse very rapid and feeble. Some brandy was administered, after which her condition improved.

During the following four days the temperature rose, the patient complained much of pain, notwithstanding opiates; the last two days there was vomiting. After the second day the uterus was washed out twice daily with Condy's fluid and water.

She died on July 17th, at 1.10 p.m. The autopsy was made on the following day by my colleague Mr. M'Carthy. There was peritonitis, puriform fluid being found in the peritoneal cavity. About two inches above the anus, there was stricture of the rectum, caused by a great cauliflower looking mass, which had invaded the mucous membrane, and extended through the wall of the rectum involving the vagina. On the inner surface of the cervix uteri were found some small superficial sloughs of the mucous membrane, and underneath these there was suppuration.

Case 2.—Cancer, with fixation, of cervix uteri; pregnancy; copious hamorrhage; abortion induced at end of fifth

month; marked relief to symptoms. Death seven months afterwards.

(Reported by Dr. S. D. CLIPPINGDALE, Resident Accoucheur.)

A. S. R—, grocer's wife, æt. 33. Admitted into the London Hospital June 18th, 1877.

She stated that her health had been good until marriage. The catamenia appeared at twelve, were always regular, usually lasted five days, were profuse, and accompanied by a good deal of pain, which, however, was never severe enough to lay her up. During the day or two previous to the menstrual period, she used to suffer from epistaxis on any exertion: she said that by this she knew when the time was approaching. She was married between eighteen and nineteen, and there was a tolerably clear history of syphilis having been communicated to her soon afterwards. She had had eight children, the last two years before admission: good times with all of them.

She attributed the illness for which she was admitted to "worry and exertion" during a menstrual period in the preceding February. At that time the flow, instead of lasting five days only, became continuous. At the end of three weeks she consulted a medical man, who gave her some medicine, the taking of which was followed by labourlike pains, and arrest of the hæmorrhage for a few days. It then returned, and continued daily till admission. Its amount varied, from one to seven napkins a day having been usually required, but it was often severe enough to cause faintness. Since the beginning of the hæmorrhage she had suffered from a sharp "stabbing" pain in the left inguinal region, which was constant, and worse at night, and from a bearing-down pain in the hypogastrium, which she described as extending down the passage: this latter pain was worse when the flooding abated. The inguinal pain was not affected by the amount of hæmorrhage. Neither of these pains at all resembled the pain of a menstrual period, or that of labour. There was also pain in the back. For the two months preceding admission she had had pain and difficulty in micturition,

having, as she expressed it, to "force" very much. There was never any want of control over the bladder. The bowels had been generally constipated, and their action was accompanied with bearing-down pain. She had lost flesh, strength, and appetite. She had been under medical treatment, and had kept her bed during nearly the whole of her illness prior to admission.

On July 3rd, the following was her condition:—She was wasted, anæmic, and of the "faded leaf" complexion. The fundus uteri reached two-thirds of the distance between the pubes and umbilicus, and the fœtal heart could be heard over it. The cervix uteri was greatly and irregularly thickened in its whole circumference, large masses of new growth projecting from it, especially from its right side. It was low in the pelvis, and quite fixed. There was no evidence of disease in any other organ. Her urine was acid, and contained no albumen.

On July 5th she was seen in consultation with me by my colleague Dr. Palfrey, who concurred in the diagnosis of malignant disease of the cervix, with pregnancy, and in the proposed treatment; viz. the speedy evacuation of the uterus.

July 7th, 10 a.m.—The patient being under ether, the cancerous tissue was destroyed with Paquelin's thermocautery, as freely as was judged safe. By this means, the cervical canal, into which previously a sound could only be be passed with difficulty, was made large enough to admit two laminaria tents of moderate size, which were then inserted. At 3 p.m. she began to suffer from much pain, which continued during the night.

July 8th, at 10 a.m.—The tents, which were well expanded, were removed. A finger could be easily introduced into the uterine cavity, but as it was not practicable to grasp and withdraw the fœtus, four laminaria tents were put in. The temperature, which had been 99° when the first tents were inserted, was now 102.6°.

July 9th, at 1.30 a.m.—The resident accoucheur was called to her, on account of labour pains having set in.

The temperature was 104.7°. A plug, which had been placed in the vagina, had been expelled: this had been followed by one of the tents, fully expanded, and this by a portion of the fœtus. The resident accoucheur, on his arrival, removed the rest of the fœtus, the remaining tents, and the placenta, all of which were lying loose in the canal formed by the vagina and the dilated cervix. At 10 a.m. the temperature had fallen to 99°.

During the next few days, the temperature ranged between 99° and 102°. There was a good deal of abdominal pain, tympanitic distension, and vomiting. The discharge from the genital organs was slight in quantity, but fœtid. The vagina was syringed out twice daily with Condy's fluid and water. There was no more hæmorrhage from the time of the abortion until thirty-eight days afterwards, when what the patient considered her usual menstrual flow came on. After this she had no return of the bleeding while in hospital.

Five days after the abortion some redness and painful swelling appeared about the angle of the left lower jaw, apparently due to inflammation of the submaxillary glands. This subsided, without suppuration, in about a week.

In the third week after the abortion a firm mass could be felt in the left iliac fossa, reaching about halfway to the umbilicus. This was believed to be the result of perimetritis; and by this, and the glandular inflammation above mentioned, the pyrexia which followed the operation was accounted for.

The temperature fell to normal at the end of the third week; but slight elevations of temperature took place occasionally, without any fresh cause of pyrexia being discovered, up to the time of her leaving the hospital. She was allowed to get up on the thirtieth day. About ten days before she left the hospital she began to complain of pain in micturition; and the urine was now found to be alkaline, and to contain much pus.

She considered that her condition had greatly improved after the abortion, as compared with what it was before

she came into the hospital. Hæmorrhage had ceased; her

pain was less, and appetite had improved.

She returned to her home on August 24th, 1877. She died there, on February 2nd, 1878. As the village where she lived was some distance from town, it was not possible to obtain a post-mortem examination.

For particulars of another case, not hitherto published, which will be found in the tables which accompany this paper, I am indebted to Dr. Matthews Duncan. I have also to thank Dr. Clement Godson for some additional facts relating to a published case of his. A case, published by Dr. J. W. Kay, and included in the tables, I saw with him.

Cases in which delivery is obstructed by cancerous disease, whether of the cervix uteri, vagina, external genitals, or rectum, have in common their most important features. These cancerous tumours cannot be pushed aside, nor can they be lessened in bulk by tapping, or any such simple means; when bruised and torn, they have no tendency to repair; as they grow, they produce a cachectic condition of body, and as, until they have made some progress, they are not large enough to greatly obstruct delivery, the patients, in whom they do considerably hinder the birth of the child, are nearly always much enfeebled by this cachexia; and lastly, they invariably, within no very long time, destroy the life of the mother. Seeing, further, that cancer beginning in one of these parts is seldom far advanced without to some degree spreading beyond its original seat, it seems to me that all cases in which cancerous disease obstructs delivery, may, from an obstetric point of view, be properly considered together. Agreeing, as they do, in their broad clinical features and course, the differences depending upon locality, and the consequent modifications in practice, are in comparison slight and easily seen.

This complication of labour is one both grave and difficult, and it is one as to the treatment of which those obstetric authorities to whom the profession in this country is accustomed to look with the most confidence, speak with hesitation. Some writers, it is true, have made more or less definite statements as to what ought to be done; but I think it may be fairly said that there exist no rules recognised by common consent as those which ought to guide practice. The subject therefore is one for the dis-

cussion of which no apology is needed.

Fortunately, or unfortunately, cases of the kind do not occur frequently in the practice of any one individual; and therefore it is necessary, in order to estimate from a broad basis the advantages and drawbacks of the different resources at our command in these cases, to have recourse to the recorded experience of others. This has been done by several writers. Hachmann, in 1836, put together 19 cases. Puchelt, in his book2 published in 1840, a work quoted by many subsequent writers, gives 27 cases. But many of them are from very old writers, by whom medical terms were not used with modern precision: in some of these there is not sufficient detail given to satisfy a critical reader that cancer was present; in others, the facts stated are such as are very rarely met with in cancer; and in others, the disease is expressly stated to have been situated at the fundus, and to have stopped at, or short of, the cervix; cases the cancerous nature of which is exceedingly doubtful, and which, whether cancer or not, certainly should, in drawing conclusions, be separated from those cases in which the growth obstructs the passage of the child. In these opinions I am not alone, for Chantreuil³ (p. 4) remarks on "the unfortunate confusion which exists in this often quoted work, between the different kinds of uterine tumours which may complicate

^{1 &#}x27;Siebold's Journal,' bd. xv, s. 602.

^{2 &#}x27;Comm. de tumoribus in pelvi partum impedientibus,' Heidelberg, 1840.

^{3 &#}x27;Du cancer de l'uterus, au point de vue de la conception, de la grossesse, et de l'accouchement,' Paris, 1872.

pregnancy." Lever,1 in his monograph on tumours obstructing parturition, published several original cases, together with some old ones, including those of Puchelt. Dr. West,2 in his work on diseases of women, collected and tabulated all the then published cases, in a manner more complete and exhaustive than anything which had gone before. But his figures include those of Puchelt: his analysis is not carried to any great detail; and since the last edition of his work was published, many more cases have been recorded, so that I think it is possible now to reason from wider and more accurate premises than Dr. West could in 1862. In 1872 Chantreuil³ published a monograph containing narratives of 60 cases, many of them admirably full. He, as I have mentioned, rejects most of those given by Puchelt. His work is rather a collection of cases with commentaries on them, than an attempt to systematise and make precise our knowledge of the subject. In 1873 Cohnstein⁴ published an elaborate paper, based on 134 cases. I should not have gone to the trouble of making a similar collection, had I not found on examination, that Cohnstein, like some of his predecessors, includes all Puchelt's cases; that he inserts some others, the accounts of which seem to me against the fact of their being cancer; that some cases he has not accurately quoted, and that he does not give enough detail to make it possible to bring out all the facts which I think it is possible to ascertain. I have, however, to acknowledge the great assistance I have received from Cohnstein's table, in finding records of cases. I have quoted from the original in nearly every case; where I could not get at the original, I have mentioned the authority quoted from. My table includes a good, many cases not included in Cohnstein's table; some are taken from Chantreuil, whose work

¹ 'Observations on Pelvic Tumours obstructing Parturition, with Cases,' London, 1842.

² 'Lectures on Diseases of Women' (Lectures XIX, XX, XXI).

³ Op. cit.

^{4 &#}x27;Archiv für Gynækologie,' Bd. v, s. 366.

Cohnstein does not seem to have seen, but many have not been included in any previous table.

I have collected records of 180 cases, and have classified them according to the way in which the pregnancy was terminated; and in each group I have divided the cases into those which ended, as to the labour, favorably or successfully, and those which did not. All cases which survived the puerperal month I have classed as favorable or successful cases; those which died before the termination of the month, as unfavorable, or unsuccessful cases. In a complex condition such as this, it is not always possible to ascertain how far death is due to the labour, and how far to the cancer, even at the post-mortem table; much less when one is dealing with somewhat fragmentary records. Therefore, it is necessary to make a rough division, and I think most will agree, that in cases dying within a month after delivery, it is probable that the casualties of labour contributed to, or accelerated death; and in some it will be seen that this is clearly the case.

My cases include 51 delivered by the natural efforts alone, 35 with success, 16 without; 9 in which delivery was aided with forceps, 5 of them successful, 4 not; 14 in which turning was performed, in 6 cases with a favorable result, in 8 without; 14 in which incisions were made into the cancerous cervix, 11 times with success, in 3 cases without; 12 cases in which craniotomy was performed, 3 times with a favorable result, 9 times with the reverse; 12 cases in which the Cæsarean section was performed, 4 times successfully; 11 cases which terminated by rupture of the uterus; 13 in which the patients died undelivered; 10 in which the cancerous part was removed during pregnancy, and 5 in which it was either removed or spontaneously detached during labour; 20 in which the pregnancy ended in abortion; and lastly, 9 concerning which the information given is too incomplete for classification, although they all illustrate some point in connection with the question.

In a disease such as cancer, in which individual cases

differ so widely from one another, and in which we have no means of accurately measuring its size, stage, and rate of growth, it is not possible, except by working from an immense number of cases, to express with accuracy in a numerical form the general facts derived from them. The wider the differences between individual items, the larger are the numbers required before it can be expected that the differences will neutralise one another. Therefore, although I shall express the facts as exactly as possible, I shall not endeavour to formulate generalisations with the same precision.

Before considering the management of labour, there are some points in the natural history of this condition which seem to me worthy of attention. The first of these is, the influence of cancer of the uterus upon conception. Many of the old obstetricians (e. q. Mauriceau) were under the impression that conception was impossible when the uterus was the subject of cancer, and several writers upon the subject have thought it necessary to begin by refuting this opinion. Cohnstein1 goes further, and maintains that cancer rather favours the occurrence of pregnancy. He bases his opinion on the facts, first, that cases of pregancy complicated with cancer seem to occur in greater number during the latter part of the childbearing period; while these years, in healthy women, are the least prolific. He considers that this reversal, in cases of cancer, of the usual ratio of fertility, is due to a greater aptitude for conception brought about by the cancer. But it appears to me that this is easily accounted for by the fact, that cancer is more common during these years, and that therefore its complication with pregnancy may be expected to be more frequent also. Next he quotes a case in which, with the appearance of cancerous disease, conception took place, after an interval of twelve years of sterility. One case, however, does not prove much. Lastly, he points out, that in some cases cancer has been accompanied with increased sexual desire. But this does not prove fecundity.

¹ Op. cit., s. 369.

Instances of cancer of the uterus occurring before the climacteric are, however, not so rare but that, if this disease at all favoured conception, cases of its complication with pregnancy would be more frequent than they seem to be. Of the 180 cases which I have collected, in many the symptoms of disease first appeared during pregnancy, and therefore the number of those who conceived while suffering from uterine cancer would be represented by a smaller figure. D'Outrepont1 remarks, that it is difficult to understand the development of an ovum in a uterus, the body of which is the subject of cancerous disease. And it would seem both possible and probable, that where there is so much new growth, and consequent swelling of the cervix as to hinder the exit of the menstrual fluid,2 the same cause may prevent the entrance of the spermatozoa. These considerations lead me to think that there is some ground for the opinion of the older authors; and that such influence as cancer of the uterus has upon conception is adverse to its occurrence.

I wish next to remark upon the influence of the cancerous cachexia upon the life of the child, irrespective of the risks attending the process of delivery.

My table of cases includes twenty in which the pregnancy ended in abortion,³ but in two of these it was artificially induced.⁴ Hachmann⁵ says that probably a great many of the copious losses of blood which accompany uterine cancer, are really unrecognised abortions. This is a supposition very difficult either to verify or to disprove; but it unquestionably has this basis of probability, that abortion may very easily be overlooked, or we may

¹ 'Abhandlungen und Beitrage Geb. Inhalt,' 1822, Erns Theil, s. 276.

² Bernutz and Goupil, 'Diseases of Women,' vol. i, part 1, case xxii.

³ The term abortion is here used to denote that the ovum was discharged before the fœtus had reached a viable age. By premature labour is meant delivery at any time between the sixth and ninth month.

⁴ According to Whitehead the average frequency of abortion in women generally, is rather more than one to every seven pregnancies.—('On Sterility and Abortion,' p. 245.)

⁵ Op cit., s. 621.

be unable to prove that it has taken place; that among the poorer classes, among whom the cases reported in medical journals usually occur, it often does take place, without the patient thinking it necessary to seek medical advice, and that the symptoms of cancer may mask those of early pregnancy, while the cancer is enough to account for such symptoms as usually accompany early abortion; and therefore I am disposed to think, that the actual frequency of abortion may be greater than is represented by these 18 cases.

Putting aside these 20 cases of abortion, and excluding also those instances in which the mother died undelivered, or in which rupture of the uterus took place, those cases in which the means used for delivery were such as to sacrifice the infantile life, and those in which the cancerous part was removed during pregnancy (for in them the development of the disease, and consequently its effect on the system, may be supposed to have been interfered with), there remain 114 cases.

Of these, in 34 labour came on prematurely; 23 went to their full time; in one labour was prematurely induced, and in the remaining 56 the period of pregnancy at which delivery took place is not stated. It would seem, therefore, that cancer tends to produce premature expulsion of the embryo; and as the chances of life of premature children are less than those of children born at term, in this way the existence of cancer is inimical to the child's life.

Out of the 114 children, 58 were born alive, 36 dead; in 20 the fate of the child is not mentioned. Out of the 36 dead, 12 are stated to have been decomposing; in them, therefore, the death was quite independent of the process of labour. In the remaining 24 the cause of death is not stated; but of these, the unduly large proportion of 13 were premature. Now, were the deaths due simply to the effects of protracted labour, one would expect the greater mortality to be among the bigger children, which is not the case. If we examine the kind of labour with these 24

dead children, it is found, first, as to time, that in 7 the labour occupied less than 48 hours, and in 4 out of this 7, less than 24 hours. In 8 it lasted more than 48 hours, and in the remaining 9 its duration is not stated. Therefore, although in some the labour was very protracted, yet it was not so in all. Next, as to the kind of delivery, 11 were delivered by natural efforts, 6 by turning (in one case combined with incisions), 3 by forceps combined with incision of the cervix, one by Cæsarean section; one was a footling case, the head being delivered by forceps; the facts of the other cases are not mentioned. It is probable, therefore, that the deaths of some of these children took place in the process of delivery; but in some there are no facts to account for death so caused. Owing to the fragmentary nature of the reports, it is not possible to arrive at the proportions. Looking at the facts in another way :- out of the 35 premature children, 15 were stillborn; out of the 23 at full term, 5; and out of the 56 whose intra-uterine age is not stated, 16 were stillborn; in other words, a mortality of 42.8 per cent. among the premature children, 21.7 per cent. among those born at term, and 28.5 per cent. among those whose degree of development is not stated.

These facts, I think, all tend to show that, in cases of pregnancy complicated with cancer, there is a considerable infantile mortality which is not due to circumstances connected with labour, but to causes acting before birth, death either occurring in utero before the commencement of labour, or being due to the feeble vitality of the prematurely expelled children. It is also probable that, had information on the point been given in all cases, it would have been found that a larger proportion of the children than appears had died in utero.

It therefore seems to follow that the cancerous cachexia tends, per se, to produce, not only the premature expulsion, but the intra-uterine death of the child.

Another point which seems to me both of interest and importance is, the influence of pregnancy upon the cancer.

It is stated by some writers, that during pregnancy the cancerous disease remains in abeyance, that there is a diminution in its symptoms and in the rapidity of its progress. With whom this belief originated I do not know, but it is quoted as a fact by several authors. Other writers, among them Chantreuil and Barnes,2 take the opposite view, that pregnancy makes the cancerous growth more active. This is a question on which it is very difficult, if not impossible, to get direct evidence. In only a minority of my cases is the duration of the disease mentioned; and in these, the dates are not fixed with much precision. But even if data could be got at, by which the average duration of cases complicated with pregnancy could be compared with that of cases not so complicated, the comparison would not have much value; for, first, the contingencies of labour would vitiate any conclusion drawn in favour of the view taken by Chantreuil; and next, although cancer undoubtedly has an average, yet individual cases depart so widely from that average, that a very large number of cases would be needed to establish any law of this kind. The belief that the growth of cancer is retarded during pregnancy, is to some extent supported by some cases in which symptoms were slight or absent until delivery, when the disease was found to be advanced. Although my table includes a few of this kind, there are none in which, cancer having been present before pregnancy, any abatement of symptoms followed conception. The only piece of direct evidence that I have been able to find, is a case by Spiegelberg,3 who says, "I saw a commencing small cancroid of both lips of the os remain constant, of the same extent and form from three months pregnancy to delivery at term; in labour it caused very little disturbance, and after that grew more quickly."

But I think that every consideration derived from what we know of the conditions influencing the process of

¹ Op. cit., p. 24.

^{2 &#}x27;Clinical History of Diseases of Women,' 1st edition, p. 830.

^{3 &#}x27;Lehrbuch der Geburtshulfe,' s. 295.

growth, and the progress of disease of other kinds and in other parts, tends to support the opposite view. We know that an abundant blood supply favours cell growth, and that a deficient blood supply hinders it. We know that the most vascular cancers are the most rapidly growing. Therefore I think we should expect the great afflux of blood to the genital organs in pregnancy to be followed by an increase in the rate of growth of cancerous disease in that part. A case is recorded by Matteil which affords direct evidence of this in the case of the breast. In a patient, aged 42, during the early months of pregnancy, a small induration was perceived in the left breast, and this distinctly increased in size up to the ninth month. It was painful, and the pain went down the left arm. After delivery, the right breast secreted milk freely, but the left remained small. The induration then ceased to increase, but no treatment was successful in making it disappear. Six months after delivery she again became pregnant, and during this pregnancy the left breast became larger and harder, and an induration became perceptible in the right breast. The left breast then began to ulcerate, and its cancerous nature became unmistakable. Mattei remarks upon its excessive increase with the mammary congestion of pregnancy.2 In one case in my collection (97) it is stated that the symptoms became aggravated after conception had taken place. But the course of the cases after delivery throws more light upon the subject. Those which recovered from the labour generally recovered well, without a bad symptom, and in many of them great relief and improvement is recorded as having followed the removal of the developmental stimulus. Thus, in one of Robert Lee's cases (22), it is said that "pain, discharge, and other symptoms, almost entirely disappeared for several months after confinement." In the case (31) recorded by Bagli and Cazal, it is said that the patient after delivery "regarded herself as cured." In Oldham's case of

^{1 &#}x27;Clinique Obstetricale,' obs. cclxxviii.

² See also 'Brit. Med. Journ.,' Sept. 7 and 28, 1878.

Cæsarean section (101) the patient had suffered most severely during pregnancy; but six weeks after the delivery it is stated that "the disease had shrunk somewhat, the discharge was not very abundant, she had been free from the ordinary cancer pains, and her general health was well supported." In Greenhalgh's successful case of the same operation (102), it is said that "for more than six months after the operation, the disease, which was advancing rapidly, underwent considerable improvement, the hæmorrhage and pain ceasing, and the local affection dwindling to an almost inappreciable degree." In my own case, already narrated, of induced abortion, the relief to symptoms was very marked. Other cases might be quoted. which agree with these, although the facts are expressed in a less striking way (1, 4, 32, 36, 37, 38, 137, 138). Now when we remember, that it is more common for cancer of the uterus to be unattended with symptoms in the early than in the late stages of its progress, it seems to me that these cases tell much more strongly in favour of the view of Chantreuil and Barnes than cases in which symptoms were absent during pregnancy do against it. And that even when we find that no relief, but rather aggravation, followed labour, it can be accounted for by the injuries received in the parturient process, and by the natural course of the disease, without resorting to the theory that it is in consequence of the withdrawal of an inhibiting agency. Therefore I think that Spiegelberg's single case is an exceptional one, and that the rule is, that cancer of the uterus grows faster during pregnancy than at any other time.

There is an effect of pregnancy upon cancer of the uterus, upon which stress has been laid, as being of value in diagnosis. I mention it, although I cannot throw much light upon it, in the hope that others may do so. Chantreuil¹ gives as one of the characters of non-malignant induration, that it softens towards the end of pregnancy, and in opposition to this speaks of the hardness of can-

¹ Op. cit., p. 57.

cerous disease. Scanzoni, on the contrary, says that during pregnancy cancer softens, while hypertrophy of the cervix remains hard. In one of Madame Boivin's cases (1), she mentions that as pregnancy advanced, the cancer became softer; and Dr. George Roper, who has seen and put on record some cases of labour complicated with hypertrophic elongation of the cervix, tells me that in them the cervical tissue remained of grisly hardness throughout pregnancy. The testimony of those two good observers is therefore in favour of Scanzoni's view.

That cancer of the uterus when in an early stage, and only affecting a small portion of the os, may allow delivery to take place without hindrance, I think hardly needs proof. That few cases of the kind are recorded, is possibly partly due to the difficulty of diagnosis of commencing cancer. Uncertain as this is in the non-pregnant condition, it is probably still more problematic when the changes due to pregnancy coexist. Chantreuil2 says, "We doubt if there is any observer who can affirm, from a simple physical examination of the cervix, however perfect, that cancer exists before the period of softening has arrived." Through the kindness of Dr. Matthews Duncan, I have seen two cases of cancer of the uterus in which delivery had recently taken place, and in which the disease was so far advanced, that Dr. Duncan judged that it must have been present before labour. But I ascertained from the medical men in attendance, that in neither case was cancer suspected at the time of labour. In one case nothing was noticed wrong with the os uteri, in the other only some rigidity. (As, however, there is no direct evidence that cancer existed, I have not included these cases in my table.)

Spiegelberg³ says, "If the disease be confined to one lip, so that in the circumference of the os there yet remains a part unaffected by it, and dilatable, there may

^{1 &#}x27;Lehrbuch der Geburtshilfe,' 2te auflage, s. 467.

² Op. cit., p. 57.

³ Op. cit., s. 513.

be no difficulty in the labour, the stages of dilatation and expulsion progressing without disturbance." This statement, although perfectly correct so far as it goes, yet requires to be supplemented by others. An examination of the cases I have collected, shows, first, that even with cancerous disease so advanced as to affect the whole circumference of the os, labour may be short and easy; delivery may take place by the natural efforts alone; and after delivery under such circumstances, the patient may recover without a bad symptom, and life be subsequently prolonged for months. Thus in a case reported by Benicke (12), there was advanced carcinomatous degeneration of the whole lower part of the uterus and the vaginal wall, the solid infiltration being felt extending to the wall of the pelvis, and Cæsarean section was thought to be unconditionally indicated. But, after hardly any pains, a dead child, of about eight months intra-uterine age, was found between the patient's thighs. In a case quoted by D'Outrepont (35) on the authority of Delbech, the cervix uteri is described as having been entirely destroyed; in place of it was a broad ulcer with uneven and fissured edges, in which the os uteri could not be distinguished. Nevertheless, after seven hours' labour, a fully developed child was born. The mother recovered well, and lived five months after-Other cases might be quoted (21, 31), showing the same thing, that in disease affecting the whole os uteri, labour may be quick and easy. The converse proposition is also true, that a cancerous tumour may seriously impede labour, even though a part of the os be healthy. Thus, in a case reported by Arnott (3), the posterior third of the os uteri was thin, soft, and dilatable, but the labour lasted two days and a half; and in a case recorded by Boivin and Dugés (1) the posterior lip of the os is said to have been supple, but the labour lasted several days. Out of the 51 cases delivered by the natural efforts alone, in 15 the disease is said to have been confined to a part of the os. Of these, in 2 the labour was over in less than 24 hours; in 2 it lasted between 24 and 48 hours; in 2, 60 hours;

in one 4 days, and in one several days. In 13 the whole circumference was affected. Of these in 5 the labour was over in less than 24 hours; in 2 it lasted between 24 and 48 hours, and in one more than 48 hours. I think these facts show, that the mere linear extent of the cancer round the os, is not by itself a criterion from which the amount of difficulty that will attend the labour can be predicted. What the criteria are will be considered further on.

Before considering the groups of cases in detail, it will be convenient to get some general facts from them as a whole. The first point I propose so to examine, is the cause of death after delivery.

There are 40 cases in which death followed within a month after delivery. Of these, in one (77) death is said to have taken place by simple collapse, 29 hours after delivery. Two others seemed to die in the same manner, one (74) 24, the other (61) 21 hours after delivery, but in them peritonitis was found, which was judged to have been present before the commencement of labour. Three died from post-partum hæmorrhage, in one case (69) it is not stated when; in the others, one day (78) and 6 days (66) respectively, after delivery. Two apparently died simply from exhaustion, one (81) 13, and the other (75) 14 days, after delivery; and another (63) died in 4 days from exhaustion, the result of incessant vomiting. Four died from peritonitis, in one case (94) one day, in another (99) 4 days, and in two (62, 92) 5 days, after delivery; in one of the latter (92) bronchitis and albuminuria were present before labour. Three of these cases were delivered by craniotomy. One patient (76) died from gangrene of the cancerous tissue and pyæmia, 13 days after delivery. In one case (82) the cause of death is vaguely described as "acute puerperal fever," which carried off the patient in 4 days. In one (96) delivered by craniotomy, gangrene of the cancerous tissue was found, the patient had survived delivery 8 days. One patient (86) died 41 days after labour, and empyema and gangrene of lung were found post-mortem, but no condition of the pelvic organs

was discovered to which this could be attributed. In the remaining 23, the immediate cause of death is not stated. In one it took place half an hour after delivery; in another within a day; in 3 within 3 days; in 2 within a week; in 3 others within a fortnight; in 2 during, and in one at the end of, the third week. In the other cases the period at which death took place is only denoted by the expressions "immediately" (one case), "not long" (one case), "soon" (3 cases), "a few days" (one case). In the remaining 4 it is merely recorded that the mother died, without any details as to when or how.

Scanzoni says that patients with this disease, as a rule, suffer after delivery from a peculiarly malignant form of puerperal fever. The facts here given do not show that there is any form of puerperal disease special to cancer. That cancer of the uterus often causes peritonitis, even independent of pregnancy, has been long known. But there is no evidence that peritonitis from cancer has about it anything especially malignant.

The next point is, the duration of life after delivery in those cases which survived the immediate risks of labour. It has been said that the violence to which the cancer must be subjected, makes it go on rapidly to a fatal issue, and, therefore, it is well to take a general survey of the facts bearing on this point. In considering the figures which follow, we must bear in mind, that all these were cases in which the cancer, at the time of labour, was advanced enough for its nature to be quite indubitable.

It is found that 2 lived a month only (in one craniotomy had been necessary, and the other was complicated with colotomy), one 40 days (complicated with erysipelas), two 6 weeks, one 9 weeks, one more than 2 months, three survived 3 months, and two more than 3 months, three 4 months, two 5 months, two more than 5 months, in two the period is vaguely stated as "a few months," and in three the expression is "some months," three lived 6 months, and one more than 6 months, two sur-

vived 8 months, and one 101 months, one lived a year, and two, more than a year, one 14 months, two more than 2 years, and one more than 3 years. In one case the patient became pregnant 3 times, and in two cases, twice, while suffering from the cancer. It should be explained, that where the duration of life is given in the words "more than" such a period, it means, not that death took place soon after that date, but that the course of the case was only observed for that length of time; it may have been that the patient survived far beyond the period mentioned. When we remember also, that in cases in which death took place soon, the occurrence would be more likely to come to the knowledge of the medical attendant, than if it had happened at a more remote period; and, therefore, that those cases in which the length of survival is not stated, probably contain an undue proportion of those who lived a long time afterwards; I think it will be evident, that if the quoted cases erroneously represent the average duration of life in the class of patients in question, they do so, by understating it. I think it probable that they do understate it. These facts do not seem to me to support the belief in question.

Coming now to the process of labour itself, it is important to ascertain, in what way, when left to nature, is the hindrance to delivery formed by the cancerous cervix, overcome? In 7 cases (2, 6, 7, 8, 61, 62, and 179) spontaneous tearing of the cervix uteri took place. In three others (9, 19, and 20) the account given is, that while dilatation of the os was going on slowly, and was yet insufficient to allow the passage of the fœtus, the obstacle seemed suddenly to give way, and birth quickly took place; but fissures in the os were either not looked for or not noticed. It would seem probable that in these cases also, the sudden cessation of resistance was due to laceration of the opposing part. In 9 cases (3, 4, 17, 23, 25, 27, 72, 172, 174) the os is said to have dilated, no mention being made of any fissuring, and in one of them

(3) it is expressly stated that no laceration could be discovered. In some of them, however, the disease only affected a part of the cervix uteri, and the dilatation took place at the expense of the healthy segment. In two cases (1 and 176), in which the disease formed a circumscribed tumour, the healthy part of the cervix dilated, and the diseased mass was pushed aside, and compressed between the head and the pelvic wall. In one (16) the disease formed a large cauliflower excrescence, which filled the whole vagina, and obstructed the passage of fæces and urine. As the head came down, this was forced out of the vulva, and after the child had passed, it again returned into the vagina. In 2 cases (170, 171) the disease, or a large part of it, was altogether detached. In Meigs' case (170) the whole mass, forming two fifths of the circumference of the os, came away in the hand of the medical attendant. In Lever's case (171) a very large piece of the diseased mass was torn away, and forced before the head of the child, a chasm being left so large that the hand might readily have passed into the uterus. Of the remaining cases in which labour was terminated by natural efforts, no accounts of the mode in which it was accomplished are given.

The facts given clearly show that, in cases in which dilatation of the os uteri will not take place, nature's mode of surmounting the difficulty is by the formation of fissures in the os uteri, and these fissures may run in such a direction as to entirely separate a part of the disease.

As to the period at which such fissuring takes place, in two it was after 12 hours' labour, in one after 30 hours, in four after 2 days, and in one after 4 days' labour; in the others the time of its occurrence is not recorded. I think it may, therefore, be said that this tearing does not, as a rule, take place readily, but only after the cervix has been subjected to prolonged strain.

Out of the 12 cases in which laceration thus took place, in one the termination is not recorded. In 8, the fissuring was not accompanied by hæmorrhage or any other

bad symptom. In one patient (61) considerable bleeding accompanied the tear, and the patient died in collapse two and a half hours afterwards; but on post-mortem examination peritonitis was found, which evidently had been present before the laceration. In another (62), no bad symptoms immediately followed the rent, which, indeed, appears not to have been perceived at the time; but the patient died from peritonitis five days afterwards. Meigs case, although there was much hæmorrhage in the early part of labour, yet no great increase of bleeding followed the separation of the tumour. The patient died twenty-four hours afterwards, apparently from shock. Lever's case, the patient lived six months afterwards. I think, therefore, that looking at these cases, and comparing them with the other cases, we may further say, that the formation of such fissures does not augment the risk to the mother; and in so far as it expedites delivery, its occurrence must be beneficial both to mother and child.

The cases in which delivery was aided by forceps, do not call for much separate comment, although they of course need to be divided from those in which the labour was left entirely to nature. The only function of the instrument in these cases, is to supplement insufficient uterine action, and so hasten delivery. The diseased tissues must dilate or tear about as much to allow a head to be pulled through by the forceps, as to be driven through by natural efforts. The process is more sudden, but in other respects the same. It will be conceded, therefore, I think, that the forceps has no peculiar appropriateness in this class of cases; that a case of the kind which can be terminated successfully with forceps, may, if the pains are strong enough, be delivered without them.

Examining these 9 cases, we find that in one (76) difficulty was anticipated from the beginning; the first stage of labour was assisted by water dilating bags, and the delivery was finished with forceps. This patient died from sloughing and pyæmia. In 4 cases traction with the instrument was employed to dilate the os; in 3 of them

(36, 37, 74), because uterine action was deficient, in the other (39) because pains were ineffectual, though violent. In 3 (38, 75, 77) the forceps seem to have been applied after the cancerous os had been passed. The cases do not show a greater risk attending their earlier application. They include cases (36, 37, 39), which prove, that even in cancer of the cervix so extensive and hard, that after long continued uterine action its dilatation does not take place, the head may be forcibly drawn through with forceps, and the patient may recover.

In 3 of the cases delivered with forceps, laceration of the cervix took place. One (37) recovered; one (74) died 24 hours afterwards from peritonitis, shown by the postmortem appearances to have been present before delivery; and one (75) from exhaustion, 14 days afterwards. In none is there any account of hæmorrhage following the

lacerations.

The cases delivered by turning are 14 in number. Of these 6 recovered, 8 died during the puerperal month. In cases of transverse presentation of course the only question is, whether, if the position of the child be altered, delivery can take place per vias naturales. If this question be answered in the affirmative, the operation of turning becomes one not of choice, but almost of necessity. Version may also be thought of as an alternative to forceps, in cases where it is desirable to accelerate labour. Goodell, considering the relative advantages of forceps and turning in pelves contracted in the conjugate diameter, and in pelves small in all dimensions, argues that in the round, i.e. generally small pelvis, the forceps is more suitable than turning. In the case under present consideration, mechanical conditions are of minor importance; nevertheless, looking at the question mechanically, it seems to me that Goodell's arguments here apply; and that if it be necessary to interfere with the object of accelerating delivery, forceps will, in cases where the obstacle consists of the rigid ring of a cancerous os, be more suitable than turning. But I think more important considerations are, that if the ope-

ration of turning should present any difficulty, prolonged manipulation may be necessary, and possibly the hand may have to be forced through the cancerous os; and that, therefore, the operation itself may involve considerable additional violence to the diseased parts. It is probable that by forcing of the hand through the os uteri, and subsequent dragging through of the child, greater injury will be inflicted than by steady traction with forceps. On both mechanical and surgical grounds, the forceps seem to me, in such cases, the preferable means of expediting delivery. This is illustrated by one case (79), (a transverse presentation), in which the uterus was so extensively torn, in attempts to turn, that loops of intestine came down. In another case (41) it is recorded, that as the head passed, the cervix was torn slightly in several places, but no bad symptoms followed. In another case (85), which I have quoted from Cohnstein, it is said that rupture of the uterus took place; but I have not been able to find any details to show what is meant by this, whether merely laceration of the cervix or a rent opening into the abdomen.

Out of the 14 cases, in 6 turning had to be performed on account of transverse presentations; in the others, either it was resorted to simply to accelerate labour, or the reason is not stated.

Comparing the two operations of forceps and turning, with regard to the fate of the child, we find that of the 9 forceps cases, 5 children were born alive, 4 of them being premature; 3 were dead, all of them decomposing, the fate of the remaining one is not stated. Of the 14 delivered by turning, 4 were living, one of them premature; 6 were dead, two of them decomposing, and the result as to the other 4 is not stated, So far as they go, these results show that the forceps offer a better prospect for the child, which is what we should have expected, knowing the greater risk to the infant that ensues whenever the pelvic extremity comes first, a risk not in most cases of this kind balanced by a corresponding advantage.

In 14 cases incisions were made into the cancerous

cervix. Of these, 11 recovered, and 3 died. Of the 3 which died, in one (86) the making of the incisions was not successful in procuring rapid delivery, the child not being born till 21 days afterwards. But no pain or hæmorrhage followed, and there were no appearances, although they were looked for, to show that the incisions had anything to do with her death, which took place 41 days after delivery. In another case the incisions were not made till the patient, after 3 days labour, was extremely weak and exhausted; they were, however, most effectual in procuring the desired end, for delivery was completed by 5 more pains. Of the other fatal case, no details are given. Of the 11 cases in which the event was favourable, of 3 (55, 56, 57) we have no detail, and in one (54) the cancer was confined to the recto-vaginal septum. In the other 7 the incisions were made because the labour had lasted long, (in the cases where the time is mentioned, 2 or 3 days), either with very slight, or without any dilatation of the os uteri; details being given in 5 out of the 7 (47, 50, 51, 52, 53), which show, that there was sufficient disease of the cervix to account for this obstruction. In 4 of them (47, 50, 51, 52) it is expressly stated that either none, or very slight hæmorrhage followed. In 10 out of the 11 delivery was finished with forceps, in the other by traction on a presenting foot. It has been said that "where incisions are necessary in cases of cancer, it is found that afterwards the disease makes much more rapid progress than before."1 This is a statement, like those concerning the progress of cancer during pregnancy, exceedingly difficult either to prove or to disprove; for, although we know the average duration of cancer, yet individual cases, not complicated with pregnancy, depart so widely from the average, that a very large number would be needed to test any point of this kind. But I have before given evidence in support of the view, that the removal of the developmental stimulus is followed by a remission in the symptoms, and I see no reason for supposing that incisions should be followed by worse results than the bruising and tearing

¹ Meadows, 'Manual of Midwifery,' 3rd edition, p. 319.

which take place if incisions are not made. As to duration of life, the cases treated by incisions compare well with those treated in other ways. One case died from erysipelas, 40 days after delivery; one lived 3 months; another a time not stated exactly, but more than 3 months; another, "a few months," one 4 months, one 6 months, one 10½ months, and one 2 years. When we bear in mind the extent of the disease the presence of so much resistance to delivery implies, there seems no reason for thinking that in these cases the progress of the disease was accelerated.

Putting together the cases in which incisions were made, with the 17 cases in which laceration spontaneously took place, we have 31 cases, in which the cancerous cervix was either cut or torn. In only one did considerable hæmorrhage take place, and in this case the death was not due solely to the laceration. In one, the rent extended too far, opening the peritoneal cavity; an accident that might possibly have been prevented by the united yielding of several small incisions, had they been made. Seven others died, but there was nothing to specially connect the death with the cervical wounds. one case, the result is not mentioned. There are no cases in which any evil result directly followed from incisions, and but two in which immediate ill consequences followed lacerations; and in one of these, those consequences seem as if they might have been prevented by incisions. Remote ill effects seem to me wholly unproved, and à priori improbable. I think that clinical evidence supports the assertion, that the special dangers attending laceration of the cancerous cervix during labour, are very slight, and those attending incisions still less; that their effect is beneficial, for they aid dilatation of the os, and thus expedite delivery, and diminish the amount of the bruising and duration of compression of the cancerous tissue; in each of these ways adding to the patient's chance of recovery. And if they expedite delivery, it is manifest that they lessen the risk to the child, if it be alive.

A point as to which the facts are few, but which seems to me important, relates to the use of water bags in these cases. In 4 cases (76, 89, 100, 163), they were used to dilate the cervix. Of these, two died, and the two which recovered suffered from severe pyrexia subsequently to delivery. It seems to me that in these cases, incisions probably do less harm than the prolonged pressure of the india rubber bag. These cases, so far as they go, tend to support this view. It may possibly be sometimes advantageous to use both means, to dilate with the bags, and

aid expansion by incisions.

In 12 cases delivery was effected by craniotomy. Of these, three only survived the puerperal month, and in one of these, sloughing of part of the growth followed. An examination of the details shows that in most of these the operation was performed under very unfavourable circumstances. Some patients were exhausted by prolonged labour; in others the diseased parts had been irritated, bruised, or torn by the means previously employed, more than probably would have been the case had the earlier part of labour proceeded in a natural manner; and in some the length of the operation, or the smallness of the aperture through which the head had to be dragged, bear testimony to the difficulty of the operation, and therefore, inferentially, to the great amount of local violence which must have been unavoidable. Thus in 3 of them, turning had been previously performed, and in one of these, the subsequent traction detached the trunk, so that the retained head was left for separate extraction. In two, Barnes's bags had been used to accelerate the first stage. In one case, incisions had been made without effect, and in another, extraction was impossible until incisions had been made. In one, the operation of perforation and extraction lasted four and a half hours, in another, three hours, in another, two and a half hours.

Two remarkable cases, which, as embryotomy was performed, are classed here, will be subsequently referred to.

Casarean section was performed in 12 cases. (In one

of them (103), however, the cancerous nature of the disease is very doubtful; for the mass which had obstructed delivery subsequently disappeared1). Of these 12, 8 died, 4 recovered (one of them the doubtful case). Of the children, 2 were dead, one of them being decomposing, and another, though extracted alive, died immediately afterwards. In 5 cases the pregnancy had advanced to term, in 4 it had reached 8 months, in 1 between 6 and 7 months, and in 2 its duration is not stated. The 3 indubitable and successful cases had all reached term. In 2 cases the operation was performed before labour had commenced, one of these was successful; in 8, not till after labour had set in; in 2, information is not given as to this point. The cause of death was, in 3 cases (106, 108, 112) peritonitis; in 2 (110, 111) loosening of the uterine sutures, and consequent gaping of the uterine wound. In one (107) it was exhaustion from excessive vomiting, in another (108), gangrene of the cancerous tissue. The duration of life in the successful cases is not stated. The marked relief to the symptoms which followed in two of them has already been commented on.

In 11 cases rupture of the uterus took place: all of them died. In two of them (113, 120) the rupture was incomplete, and in another (117), although it is said that symptoms of rupture of uterus were present, yet it is not clear that anything more than laceration of the cervix took place.

In 6 cases the rupture took place after vigorous and prolonged uterine action, in 1, after the labour had lasted 12 hours, in another after 36 hours, in another after 2 days, in one after 3 days, and in one the length of labour is stated as "some days;" in the other the pains are described as "strong." In one case, however (123), the rupture took place with the fourth pain. One patient is merely said to have been in labour. In one a fibroid was discovered post mortem.

These cases, like others which have been put on record,

¹ See Barnes, op. cit., p. 830.

show that rupture of the uterus does not invariably result from insuperable obstruction to delivery, causing the uterine fibre to give way from the violence of its own ineffective contractions, for in one of them it followed the fourth pain, and in 3 of them the child was extracted per vias naturales after the rupture; but of these, in one the presentation was transverse, and in the others it is not stated.

There are 13 cases in which the patients died undelivered. Of these, four died without any signs of labour; one (135) suddenly, 6 months pregnant, the cause not being stated; one (134) from diarrhœa and hectic, 5 months pregnant; one (131) from hæmorrhage and vomiting, and one (132) from peritonitis. Scanzoni mentions another case1 (the details of which are so scanty that I have not put it in the table), his patient died from hæmorrhage, but whether in labour or not he does not say. There are two cases in which abortive attempts at labour came on; in one (130), they came on more than once, the patient dying of peritonitis; in the other (127) they lasted half a day, the patient died 3 weeks afterwards. In six cases labour came on vigorously, in one (129) the os had dilated to the size of half-a-crown when the patient succumbed; in one (124) no dilatation took place, and the patient died from peritonitis and metritis 7 days after the escape of the liq. amnii; in one (133) the uterus seemed, without distinct pains, to be in a state of tonic contraction; there was no dilatation, and Cæsarean section was intended, but the patient was so exhausted from hæmorrhages and discharges, that the idea of it had to be given up. In one (128) perforation was performed, but after many fruitless efforts at extracting the child the patient died. In another (126) the pains continued, on and off, for a month, the uterus being in a state of stony hardness from chronic contraction; there was at last a little dilatation, but before delivery could be accomplished the patient died. One patient (136) died 20 days after the

^{1 &#}x27;Lehrbuch der Geburtshilfe,' 2te aufil., s. 467.

commencement of labour pains. Lastly, there is the extraordinary case of Menzies (125) in which the child was retained 17 months, irregular pains like those of labour continuing with varying severity for 7 months before death. With this case may be associated the two cases referred to in the craniotomy group; one case (90) given by Menzies, in which embryotomy was performed, and the fœtus expelled in fragments during the next 3 months, and one (96) by Depaul, in which pains came on at term, and lasted about a month, the os then dilated to about the size of a five franc piece, and the child was extracted by disarticulation, the pregnancy being supposed to have reached 101 to 11 months. The mother died from peritonitis and gangrene.

In those cases in which death took place after prolonged labour, and in those cases of rupture of uterus in which it followed the same antecedent, I think we may take it that we have those cases in which the obstruction caused by the cancer reached the degree of being insurmountable, and therefore by studying them, we may get some information as to what are the characters of the cancerous cervix which give rise to the greatest amount of obstruction. Of the 6 cases of ruptured uterus in which this accident happened after protracted labour, in three it is not clear that the rupture was due to great obstruction at the os. Of the other three, in one (119) the condition is thus described by Oldham: "The disease had already destroyed a considerable portion of both lips of the os uteri, leaving a hole big enough to admit two fingers; it was unusually hard and rigid, the anterior wall felt like a mass of hardened mortar." In another (120) it is said that there was "an enormous scirrhous tumour, which occupied the whole neck and lower part of body of uterus, obliterating the orifice; the borders of the os were extremely hard." In the other (121) there was "a tumour which almost entirely filled up the vagina." Of those which died undelivered after prolonged ineffectual labour, there are 7 cases. In two of them (124, 125) the epithet used. to describe the condition of the os is, "as hard as cartilage"—"cartilaginous." In another (126) the cervix is described as of "woody hardness." In one (129), Ramsbotham says the cervix was "exceedingly indurated." Another (133) Oldham mentions was "particularly hard and unyielding." One case was one of cancer of the vagina, forming a considerable tumour; and the remaining one, the disease formed a large fleshy tumour, the largest which Denman had ever seen, it was so large that there was no possibility of the head passing it.

We see that in these cases either unusual hardness is mentioned or a very large tumour is spoken of. As we have no means of expressing quantitatively the degree of hardness, or even of measuring the extent and size of cancerous disease of the os, it is not possible to be very precise on this point. We have seen that the linear extent of the disease around the os is not a sufficient guide to the probable difficulty of the labour, for in disease affecting the whole circumference of the os delivery may be easy. We now see that unusual hardness of the growth, or unusual size of the tumour formed by it, are the conditions under which the hindrance to delivery becomes insurmountable; and we should therefore think that in trying to forecast the probable difficulty of delivery, these are the points to which attention should be paid. The hardness would seem the more important, for it may be possible to remove a tumour.

Twenty cases ended in abortion: in two of them it was artificially induced. As to the time of the abortion, in one it was at two months, in one between two and three months, in four at three months, in two between three and four months, in four at four months, in two between four and five months, and in two at five months; in the remaining four the period of pregnancy is not stated.

In six of the cases the miscarriage was accompanied with severe hæmorrhage, but in only two of them did it appear that the hæmorrhage directly accelerated death. As to the length of survival after the abortion, one patient

is said to have died "shortly after" this event, one four or five days afterwards, one lived some weeks, one seven weeks, and one eight weeks afterwards, one survived three months, two four months, one five months, one more than six months, one seven months, one ten months, one a year, and one two years. One of the patients aborted three times, and one twice, while suffering from uterine cancer.

Taking these cases as they are they show that abortion is not attended with so much risk to the maternal life as is labour at term. But for reasons previously given I am inclined to think that Hachmann's supposition may be true, and that these twenty cases probably include an exceptional proportion of cases accompanied with remarkable features. It is to be further observed that if (as I have endeavoured to show) the cancerous cachexia has the effect of bringing about intra-uterine death and premature expulsion of the ovum, we should expect this tendency to be strongest in those cases in which the cachexia is the most advanced, and therefore that abortion would be most likely to occur in the worst cases. Judging by the analogy of other diseases we should think that abortion may in such be more correctly called a precursor than a cause of death. Those cases in which death took place very soon after abortion rather bear out this view (147, 152).

It is to be noted that in the two cases (138, 151) in which abortion was induced, the hæmorrhage was not considerable, and the relief to symptoms was marked.

There are ten cases in which the diseased part was removed during pregnancy. In one case (163) it was done at the end of the first month of pregnancy, the patient went to the full term, but the disease had returned before delivery. In one case (165) it was removed in the second month of pregnancy; this patient went to term and had an easy labour. In four the operation was performed about the fifth month; one of these (158) aborted the next day, one (166) went to within five or six weeks of term, and the other two (160, 162, in one of which (162) Douglas's pouch

was opened at the time of the operation) went to term, all recovered well. In one case (161) the tumour was removed at the sixth month, Douglas's pouch being opened; this patient was delivered of a dead child eleven days afterwards. In one case (159) the operation was done at the seventh month, labour came on a week afterwards. In one case (164) it was performed at the eighth month, a dead child was born eight days afterwards. The remaining patient (157) had reached nearly the end of pregnancy, labour came on five days after the removal of the growth.

It thus appears that in only one out of ten cases was the operation immediately followed by abortion, and that five out of the ten were delivered at full term.

There is, therefore, evidence that the diseased part may be removed during pregnancy without any great risk of inducing abortion. As to the risk of hæmorrhage, in none is any considerable loss of blood recorded, and in five it is distinctly stated that there was no great hæmorrhage. In two, however, the actual cautery was used to check bleeding, and in one case the galvanic cautery was the instrument with which the operation was performed. I think that from these facts it may be further stated that the measure in question may be accomplished without much risk of dangerous hæmorrhage, the means at our disposal being, as a rule, adequate to prevent great loss of blood. It will be noticed that in two cases Douglas's pouch was opened, but both patients recovered. This immunity, I think, can hardly indicate the rule, though it deserves notice. As to the result of the operation with respect to progress of the disease, we have seen that in only one had the disease returned before delivery. The others all had quick and easy labours. In one case (158), five months afterwards the disease had not returned. In four the disease did return after delivery; in the other cases the further history was not followed up, and unfortunately the termination of the case is not recorded in any of them. (Among the cases which died undelivered will be found another case (134), but as the disease had returned within

a month the removal would seem to have been incomplete). I think we may, therefore, conclude that removal of the diseased part during pregnancy is not much, if at all, more dangerous than in the non-pregnant condition; and that if the disease be thoroughly removed, it may fairly be expected that a sufficient interval will elapse before its return, or before the fresh disease has become extensive, to allow of an easy delivery.

In three cases the diseased part was removed at the time of labour, in one with the galvanic cautery (167), in the other two with scissors. In the two latter cases the operation greatly facilitated labour; in one (168) the os uteri, which before the operation would only admit two fingers, immediately afterwards expanded uniformly; and in the other (169), by the removal of a cauliflower-like growth which filled the vagina, room was gained to rectify a transverse presentation. In neither was there any hæmorrhage. In the case in which the galvanic cautery was used only a part of the growth was removed, and the obstacle to delivery remained nearly as great as before. Incisions were made, and forceps applied. The child was saved, but the mother died from peritonitis.

The lesson of these cases would seem to be that part of the cervix may be safely removed during labour, and that if the disease be tolerably circumscribed, removal of the diseased part will facilitate labour; but that removal of a

part of the disease is not of much use.

The practical question which, by collecting and comparing these cases, I have endeavoured to aid in answering, is this; what is best to be done in cases of pregnancy complicated with malignant disease? The reply given will, of course, depend partly upon what we regard as the end to be obtained—in other words, upon whether we consider the life of the mother, or that of the child, to be the more valuable. This last question is one not of obstetric science but of ethics, and as this paper is not upon the subject of medical ethics, I shall not enter upon it, but will merely say that I accept and think right that which

has long been the rule of British midwifery, viz. that the life of the mother is always to be preferred to that of the child. The question, then, to which I propose to offer an answer is this: what mode of treatment is best for the mother? Our object is, of course, to save both if we can. The first thing that we should ascertain seems to me to be, can the diseased part be removed? I have adduced evidence to show that the risk in removing a diseased cervix is little, if at all, greater than in the unimpregnated state; and it seems to me that the arguments in favour of removing, whenever possible, the local disease, apply with greater force when the patient is pregnant than at any other time, for, as has been shown, if the malady do return within a short time, the interval may yet be enough to allow of a safe delivery; and even if its recurrence should take place before the end of pregnancy, the diseased parts will probably not form an obstruction of the same magnitude and resisting power as would have been the case had it been allowed to grow unchecked; and that, therefore, even if the operation do not ultimately much prolong the mother's life, yet it may save her from much peril and suffering in the process of labour. I think, therefore, that if it be possible to remove the diseased part, it should be done without delay.

But the class of cases in which this is possible, contains the simplest and least formidable ones. We may have cases in which, at an early period of pregnancy, the cancer is so advanced as to render its complete removal impossible. The question then arises, is it desirable to interrupt the pregnancy? This is a measure mentioned with approval by Dr. West, who speaks of the practice as sound, and by Scanzoni,2 and the late Dr. F. W. Mackenzie, in the first paper read before this society, recommended its adoption, and narrated a case in which it was carried out.

I have given reasons for thinking that pregnancy accelerates the growth of the disease, and if so, its pro-

¹ Op. cit., p. 406. ² Op. cit., s. 371.

gress may be expected to be retarded, and therefore, the patient benefited, by the removal of this stimulus. Again, in Dr. West's words, "the dangers attending miscarriage are not to be put in comparison with those that accompany labour at or near the full period of pregnancy." needs no showing, that a degree of dilatation insufficient to permit the birth of a viable child, may yet allow the passage of an ovum of 5 months or less. And if, at an early period of pregnancy, the cancer be so advanced that its removal is impossible, it will probably at the end of gestation, if the patient live till then, have reached a sufficient size to make labour very difficult and dangerous. special danger of abortion in these cases would seem to be from hæmorrhage. This hæmorrhage may either come from the cancer itself, or from vessels laid open by the separation of some part of the chorion or placenta. If from the cancer, the cautery may be used (as in the second of the two cases with which this paper commences) to destroy the new growth which bleeds, and at the same time open up a free cervical canal. If it be from detachment of chorion or placenta, we have in the tent a means of at once effectually arresting hæmorrhage by plugging (at least in cases where the pregnancy is early), and aiding dilatation. I believe therefore, that by the use of the means which we have at our command, excessive hæmorrhage attending abortion may be greatly controlled.

Judging from the analogy of labour, I should doubt if the process of abortion leads to increase of hæmorrhage from the cancer. When the hæmorrhage has been (as in my case) continuous throughout pregnancy, I think it may be inferred that it comes from the new growth. Where this hæmorrhage becomes excessive, and abortion follows, I should think the hæmorrhage more probably a cause than an effect of the abortion.

For the reasons stated, I think that in cases where, at an early period of pregnancy, the cancer is so advanced as to make its removal impossible, the artificial induction of abortion offers the best chance for the mother. Dr. F. W. Mackenzie, in his paper on the subject, deemed it necessary to defend the morality of his practice. I shall not do that, because that question is one of an entirely different nature to those which I am discussing. If it be intrinsically wrong to induce abortion, no amount of success can justify it; but if it be right to do it when maternal life can be saved or prolonged thereby, then it becomes simply a question of results. I assume, what I believe is now generally admitted in this country, that it is right and proper to cut short pregnancy if by doing so we can save or prolong maternal life; and for the reasons given, I think that in the case under consideration we can prolong life by adopting this measure.

But we may not in all instances be called to a case of the kind until pregnancy has advanced to the sixth or seventh month. If so, is any benefit to be derived from the induction of premature labour? I think there is, although not so much as from an earlier termination of the pregnancy. The child will be smaller, hence dilatation of the os need not be so complete, and the bruising and tearing of the parts will be less. The cancer also will be less advanced, and its obstructing power will be probably less than at a later period; and in this step we imitate nature, for we have seen that in a large proportion of cases labour spontaneously comes on prematurely. And we may possibly, by the early induction of labour, deliver alive a child which would otherwise have died in utero, a possibility which we may put against the other possibility resulting from the feeble resisting power to injurious influences possessed by an immature infant.

The next question is, the patient being in labour, what is the best mode of managing delivery?

In stating those conclusions as to the management of labour to which the evidence from the cases I have collected seems to me to point, I shall confine myself strictly to the local condition. In actual practice many other factors come into account. We must judge each case by itself, and take all the facts into consideration; but I am

here only dealing with the conditions which are peculiar

to labour complicated with cancer.

The obstruction from cancer of the uterus is, of course, in the first stage of labour: the os does not dilate. If dilatation can be accomplished, there is no further hindrance. If the cancer be confined to a small part of the os, the sound part may dilate readily, and no interference be needed; but if the disease affect the whole circumference of the os, dilatation may be slow, and will probably be completed by spontaneous tearing. This tearing but seldom adds to the risk, it is conservative. One of its dangers is that it may extend too far; a single rent may extend to the peritoneum. This is not so likely to happen where the os fissures in several places. But there are also cases in which dilatation will not take place, and, therefore, delivery by the natural passages is impossible; and in which, unless we interfere, ineffectual attempts at the expulsion of the child may continue till the patient dies from exhaustion, undelivered; or rupture of the uterus may take place. These latter cases are characterised either by extreme and unusual hardness of the diseased cervix, or by the cancer taking the form of a voluminous tumour. These, then, are the conditions with which we have to deal. It appears to me that the first question, in labour as in the pregnant condition, should be whether we can remove the disease. If it be so circumscribed that removal of the whole is practicable, the few facts we have show that it may be done with tolerable safety, and there can be little doubt about its advantage when possible. But even if it be impossible to remove the whole disease, it may be that a part of it forms a projecting tumour more or less pedunculated. If so, the removal of such a projecting tumour will facilitate delivery, and will probably diminish the patient's symptoms, and, therefore, it should be done when feasible. There seems to be little risk of hæmorrhage.

But this measure is not always, indeed is seldom, practicable. It is of no use to cut off a little bit, and leave the

greater part behind. What, then, should be done in cases in which it is not possible to remove any considerable part of the disease?

As has been shown, the os may dilate well, and delivery be quickly accomplished; in such cases no interference is needed. But taking the cases in which the dilatation is so slow as to call for some help, they fall into two classes: those in which with assistance delivery of a living child is possible, and those in which it is not, and the problem is to differentiate between them.

If we find that the disease does not form a great tumour, and is not particularly hard, and that as the pains become frequent and strong the os gradually, though slowly, begins to dilate, then, I think, our best plan is to assist Nature by imitating her process, and incise in several places the diseased and rigid os. These incisions do not add to the danger at the time; there is no evidence that they do, as has been stated (erroneously, I believe), lead to increased growth of the disease afterwards; and by facilitating deliverythey do save the patient from the danger and suffering consequent upon protracted labour. For reasons already given, I think incisions as a rule preferable in these cases to the pressure of water dilating bags. If, aided by our incisions, the os uteri opens, but yet the force of the uterine contractions appears inadequate to drive the child through, then I think we should seize the head with forceps, and by traction accomplish delivery. I have already given reasons for thinking forceps generally preferable to turning, for the purpose of accelerating the labour. But there yet remain cases in which delivery of a living child cannot take place, and the alternative lies between craniotomy and Cæsarean section, and some, in which there is no alternative, but the Cæsarean operation must be performed.

We may have a case in which the cancer forms a tumour so large that the head cannot pass it, and so hard and fixed, that no yielding whatever can take place; it may even be difficult to find the os. In such a case most will agree as to the necessity of Cæsarean section. But there are other cases which are not so remarkable for the size of the tumour, but in which the os will not dilate even after incisions have been made, and these are cases either for craniotomy or Cæsarean section. So far as I can see there is nothing except the hardness (a quality which can only be estimated roughly by the finger) in which a difference can be pointed out between these cases and others in which quick dilatation has taken place, and there is no way of being sure that such a cervix will not yield except by making incisions and watching the result. If, after incisions have been made, the pains are strong and frequent, and yet no yielding takes place, then it is evident that we must resort either to craniotomy or to Cæsarean section. I have only been able to find twelve cases of delivery by craniotomy in cases of cancer uteri, but of these the rate of maternal mortality was 75 per cent. The mortality of Cæsarean section in England is 84 per cent. (of the cases which I have collected in which it was performed for cancer, 72.7 per cent.). The data are unfortunately scanty, but they show a very slight difference between the results of the two methods, and when we consider that those who recovered after Cæsarean section did so with far less injury to the diseased parts, and that their local condition was therefore much better than would have been the case after the violence unavoidable with craniotomy under such circumstances; I think that the risks of the two methods are so nearly equally balanced, that we may let the result to the child turn the scale, and look upon Cæsarean section as the operation to be performed when a living child at or near term cannot be born. But a much larger field has been claimed for this operation. It has been said that if any interference at all is needed to accomplish delivery, the Cæsarean section should be the means resorted to. Looking at the high mortality of Cæsarean section, at the abundant evidence there is that patients may recover well and live for months after delivery while suffering from cancer, and looking at the very slight risk which attends incisions of the cancerous cervix; I think that Cæsarean section ought not to be done until we are sure that delivery of a living child per vias naturales is impossible. The argument that Cæsarean section may hereafter become less dangerous, I think does not apply until it has become less dangerous. In advising our patients we have to take into consideration the means which we have now at our disposal, and not those which we may have hereafter.

I will conclude by stating as briefly as possibly the points which demand attention in this communication. Examination of the recorded cases leads to the following conclusions as to their clinical history:

1. That whatever influence cancer of the uterus may have upon conception, is adverse to its occurrence.

2. That cancer of the uterus tends to produce the intrauterine death, and premature expulsion of the fœtus.

3. That the growth of cancer of the uterus is, as a rule, accelerated during pregnancy.

4. That with cancerous disease affecting the whole circumference of the os uteri, labour may be quick and easy, and the patient may recover well, and live for months afterwards.

5. That when delivery under such conditions is accomplished by natural efforts, expansion of the cervix usually takes place by fissuring.

6. That this fissuring does not usually augment the risk to the mother.

7. That imitation of this natural process, by making incisions, neither increases the danger at the time, nor accelerates the progress of the disease subsequently, and that it often greatly facilitates delivery.

8. That the cases in which the cancer forms a tumour of great size or hardness, are the ones in which delivery by natural efforts will not take place.

9. That where the above characters are absent, no definite criteria can be drawn from the local conditions by

which to foretell the behaviour of the cervix uteri during labour.

10. That where delivery of a living child per vias naturales is impossible, such limited experience as we have shows that there is but little difference, as to risk to the mother, between craniotomy and Cæsarean section.

From these data, it appears to me that the following conclusions as to practice follow.

- 1. That where it is possible to remove the disease, either during pregnancy, or at the time of labour, it ought to be done.
- 2. That where this cannot be done, the safety of the mother is best consulted by bringing the pregnancy to an end as soon as possible.
- 3. That when labour has actually come on, expansion of the os uteri should be aided by making numerous small incisions in its circumference.
- 4. That, dilatation of the os uteri being in progress, if uterine action should be deficient, and it become necessary to accelerate labour, the use of the forceps is, as a rule, better than turning.
- 5. That when dilatation of the cervix cannot take place, even after incisions have been made, either from rigidity or magnitude of the tumour, Cæsarean section should be performed.

A.—CASES WHICH TERMINATED FAVOURABLY BY THE NATURAL EFFORTS ALONE.

Further history.	Recovered Patient left the hospital on the 15th day. The disease progressed during a year subsequent to delivery, though not as rapidly as might have been expected. Further course not ascertained. Madame Boivin remarks on the softening of the tumour during pregnancy.	Patient left the hospital on the 28th day after delivery. Her general state was slightly improved, the pains better. State of cervix and vagina the same as before delivery. It was evident that the passage of the head had led to deep tearing of the degenerated tissues.	Chief the Control of
Immediate result to mother.	Recovered 1	Recovered	Srd day, but no other grave
Result to child.	Living	Dead	
Details of labour.	After several days'labour Living the os dilated. The cervical tumour was forced down to the vulva, and as the head emerged was tightly compressed between it and the right ischium.	Labour lasted 45½ hours. Pains were strong	able; anterior two thirds
Mode of delivery.			month, natural
Chief symptoms and signs indicating cancer.	An enormous tumour in the vagina (at first taken for the fætal head), hollow in the centre so as to admit the first two joints of the forefinger; the surface of the other part of the tumour knotty, hard, and uneven. The os uteri behind and to the left of this tumour, its posterior lip several lines thick, but supple	Wasting (especially rapidlyduring pregnancy); hæmorrhages after 3rd month of pregnancy. Upper part of vagina 7 months very thickened, forming an irregular, mammillated tumour, with projections of cancerous tissue blocking up the canal. The os uteri degenerated in its whole	enlarged, indopated
Age and Duration of preg-	More than 13 months	2 years	
Age and number of preg- nancies.	36 5th preg- nancy	37 6th preg- nancy	Parent
Authority.	Boivin and Duges, Traite Pra- tique des Malad. de l'Uterus, t. ii, p. 52	Martel, Archiv de Tocologie, 1877, p. 745	Towns and the same
No.	1	2	H

cinuous pain in right iliac region. Secondary cancerous tumours in other organs.	Was in comparatively good health for three months, affording sufficient nourishment for her infant. The disease then increased rapidly, and at the end of four months after delivery she died.	Labour lasted 2 days; cervix did not dilate, and finally gave way by three or four fissures, to left, to right, and behind.	Remained in Termination of case not hospital recorded. 6 days, during which no ill result appeared
3rd day, but no other grave symptoms	Lived for 4 months	Left hospital in good condition on 9th day	Remained in hospital 6 days, during which no ill result appeared
	Living,	Living	Sus- pended anima- tion, but easily re- stored
able; anterior two thirds firm and unyielding. Twins: first child presented transversely; second footling. After expulsion, os was about 3 inches in diameter; no rent could be felt in it	After a few hours the Living, dilatation was so complete that a large infant was spontaneously delivered	Pains accompanied with Civing considerable hamor-rhage. A spongy, irregular swelling of left side of os uteri (at first taken for placenta)	Termination of case not recorded
month, natural efforts	Natural	Natural efforts, head pre- senting at term	Natural efforts, head pre- senting at term
enlarged, indurated, gristly; anterior lip of largest size; rugged ulceration of inner surface of both lips. Uterus fixed	The whole anterior semi- circumference of the neck thickened and swollen by a cancerous degeneration	Frequent hamorrhages and feetid discharges during pregnancy	Margin of os uteri thick- ened and of scirrhous hardness
	1	1	18-18-
r. o nancy	1923	30 Multi- para	Primi para
Trans- actions, vol. xxxi, p. 42	Hodge, Principles and Practice of Obstetrics, 1864, p. 519	Madame Lachapelle, Pratique des Accouche- ments, vol.iii, p.368	Madame Lachapelle, op. cit., p. 369
2	4	in .	9

	re-	fatal few ly.	after	ught
story.	not	The disease proved fatal to the mother a few months subsequently.	months	tho ced
Further history.	uo	se pro nothe ubsec	ш	was
Furt	corded.	liseas he r ths s	14 very.	nomg ave
	corded.	The to t mon	Died 14 delivery.	ceft hospital Carcinoma was thought on 7th day to have advanced when
iate It her.	Free from pain after delivery, scirrhous tumour the same, os contracted 15 days afterwards	ered	At the end of a month was able to leave her room	pital
Immediate result to mother.	Free from pain after delivery, scirrhous umour the same, os contracted 15 days afterwards	Recovered	At the end of a month was able to leave her room	ft hos
				S Le
Result to child.	days. Living dilate re de- ration s dis- issure ds on mour	be- Living 8th last rred	Labour lasted 48 hours. Living Os uteri dilated slowly, although pains were very strong. The head passed suddenly through os uteri, its passage being accompanied with a shriek from the mother and a rending sensation; no laceration was de-	ploration was not made Dilatation of os slow; Living Left hospital Carcinoma was thought pains beginning to fail
	days. illate e de- ation dis- ssure is on mour		ours, were head ough e be- ith a other tion;	made llow;
abour.	279455	tween 7th and 8th months. The os at last dilated and fissured sufficiently to allow a	Jabour lasted 48 hours. Os uteri dilated slowly, although pains were very strong. The head passed suddenly through os uteri, its passage being accompanied with a shriek from the mother and a rending sensation; no laceration was de-	tected, but a minute exploration was not made Dilatation of os slow; pains beginning to fail
Details of labour.	lasted 4 did not nours before a feerwar a deep backwar e of the t	premature 7th and The os a and fis	sted dilat pand. Panden nig. dden its punpan nom tlengan ding ation ation ation	was of of
Detail	Cervix duntil 2 h livery. A 15 days a covered directed each side	tween months. dilated sufficient	ur la uteri ough stro ed su tteri, accoi ek fr a ren lacer	ation tation
	Labour Cervix until 2 livery. 15 day covered directe each si	Labour tween months dilated sufficie	Labo Os a alth very pass os u ing shri and	plor pain
Mode of delivery.	Sponta- neous: breech pre- sentation	Natural efforts, prema- turely	Natural	Natural efforts,
Mo deliv				
igns	Pregnancy preceded by hemorrhage for four months. Bearing down and lancinating pains towards the end of gestation. Posterior lipof os scirrhous, divided into two lobes, continuous with one another, the	larger as big as a walnut The whole circle of the cervix uteri seemed af- fected with the cance- rous disease	abortion s of the ne whole fungous , which ortion of rvix ex-	Hard nodules in anterior vaginal wall, and in va-
and s	receded by for four aring down ting pains end of ges-rior lipof os ivided into continuous nother, the	s a w	abo the v a fur ig, v porti cervii	n and
Chief symptoms and signs indicating cancer.	Pregnancy preceded by hamorrhage for four months. Bearing down and lancinating pains towards the end of gestation. Posterior lipof os scirrhous, divided into two lobes, continuous with one another, the	larger as big as a walnut The whole circle of the cervix uteri seemed af- fected with the cance- rous disease	during progress of the disease. From the whole disc of the os a fungous tumour sprang, which filled a large portion of the vagina; cervix exceedingly indurated all round	fard nodules in anterior
f sym indica	Pregnancy pr hæmorrhage months. Bea and lancinat towards the tation. Poster scirrhous, di two lobes, with one an	larger as big The whole controls corvix uterifected with rous disease	previous ng prograse. Fron of the os our sprad a large vagina; lingly ind	l nod
		larg The cerv fect rous		Hard
Authority and number Duration of preg- disease.	4 months	1	Nearly A 2 years debefore dedelivery the first fixed for the fixed for t	-
eg- di				- 46
Age and number of preg- nancies.	42 12th preg- nancy		3rd preg- nancy	49 6th
y and	it.,	son, iit.,	im,	user,
ithority an	Madame Lachapelle, op. cit., p. 370	Simpson, op. cit., p. 501	Rams- botham, loc. cit.	Fankhauser, Schmidt's Jahrbücker
No. Au	7	oo'	6	10 Fa
Z				

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ANEON COLUMN TO STATE AND THE PARTY OF THE P			Recovered Termination not re-			When examined some days afterwards, a crater- shaped opening in the	hard infiltration found in situation of internal	os. Cancerous disease reached to meatus uri-	narius. Further course not stated.	The cancerous disease	became pregnant again.	Examination before pa- tient's discharge showed	had increased in size, and the whole os uteri,	with the exception of a small part to the left,	studded with granula- tions.
discontinuation (East termentent)			Recovered			Favourable				Recovered		After a perfectly	lying-in,	discharged on 8th day	
direction.			Living			Dead				Living		Living			
I Coverious and moderate	O Sussissions		Natural Labour lasted about 24 Living efforts at hours after rupture of	membranes. The dis- charged liq, amnii was taken for urine, and	acy never	Hardly any pains; a dead child found be- tween her thighs				Birth quite natural		Labour lasted about 15 Living hours			
Natural			Natural efforts at	8 months		Natural efforts, prema-	ture at about 8	months		Natural efforts.	full term	Natural			
tion thru and its surrace			Leucorrhœa and hæmor- rhages. Os uteri covered	separated by deep fis- sures. Os admitted finger	with ease at 7 months' pregnancy. Pregnancy not suspected	Advanced carcinomatous degeneration of the whole lower part of the	uterus and the vaginal wall, the solid infiltra-	tion being felt extend- ing to the pelvic	walls. Cæsarean section thought to be uncon- ditionally indicated	Scirrhus with pregnancy		On the right side of the posterior part of os uteri	the neighbourhood of which were several in-	dentations surrounded by hard tissue. The os	uteri in several places was studded with gra- nulations
		-	More than 6	months		1		8		1		1			
2000			32 6th	preg- nancy		1				1		2nd preg-	namey		
B. 142	Corr. Di.,	iv, 1, 1874)	Pedela- borde,	Chantreuil, op. cit., p. 28		Benicke, op. cit., p. 347				Elias von	Jour. für Ge- burt, Bd. iii, p. 57, 1819	Arneth, Geburtshil-	Praxis, 1851, p. 65		
1			11			12		B.		13		14			-

Further history.	70 days after labour the diseased part of uterus was excised. Much improvement followed; but in 2 months the disease returned, and 8 months after delivery the patient died from exhaustion.	No unusual Patient died in a state discharge of great emaciation 6 followed weeks after delivery.	Recovered No bad symptons occurred during the lying- in period. She died 4 months afterwards. Autopsy forbidden.	-
Immediate result to mother.	Everything went well till 14th day, then alarming hæmor-rhages and much local pain	No unusual discharge followed parturition	Recovered	Recovered
Result to child.	Living	Not stated	Living	Living
Details of labour.	Much hemorrhage in Living early part of labour. Labour lasted 28 hours. Os uteri rigid; membranes ruptured, and ergot given	The tumour was expelled before os uteri could be dilated for passage of head, and before head could pass through pelvis. It receded into the vagina as soon as the child was born	Labour lasted about 16 Living hours. The pains were severe, and the os dilated slowly. Not more hamorrhage than usual followed	-
Mode of delivery.	Natural efforts, aided by ergot	ge, from Natural hich she efforts, sinking head pre- te pelvis senting aliflower large as passage	Natural efforts at term	Natural
Chief symptoms and signs indicating cancer.	Pregnancy; some months before great menorrhagia. During pregnancy watery discharge, with slight hamorrhage, about once a month. General health during pregnancy thought to be good. An irregular, tolerably firm, somewhat elastic mass, growing from anterior part of os uteri, obstructing	Profuse discharge, from the effect of which she seemed to be sinking fast; the whole pelvis filled with a cauliflower excrescence, so large as to impede the passage	Severe pain; no hæmor- rhage; wasting and hec- tic. Os uteri thickened, deeply fissured, very hard, and sensitive. It	
Duration of disease.	Pro- bably some months before preg- nancy	Not longer than 9 months	- 00 44	in I
Age and Duration number of of pregaisease	30 4th preg- nancy	26	32 multi- para	1
Authority and number of reference. of preg. disease.	Cormack, London Journal of Medicine, 1851, p. 212	D. D. Davis, Obstetric Medicine, p. 737 (quoted from Clark)	Hachmann, Siebold's Journal für Geb., &c., vol. xv,	Dubois, from Cohnstein
No.	15	16	17	18

-	structulismo. Suckled	Died 6 weeks after de- livery.	Was not at all henefited by delivery, but continued to live in a state of great suffering till death, 6 months afterwards.	Pain, discharges, and other symptoms almost entirely disappeared for several months after confinement, but they returned, and she died 8 months after delivery.	Five weeks after her confinement suffered from all her previous symptoms, but in an aggravated degree. A great increase in the local disease. Termination of case not recorded.
Receivered	THE STREET	Recovery	Recovery	Recovery	After delivery great pain and a sensation of burning in region of tumour
Living		Living	Living	Dead	Not stated
The state of the s		born. Whether any tear- ing took place was not noted Labour pains excruciat- Living ing, and continued for a long time without pro- ducing any effect upon the os uteri; but at last it gave way suddenly, and the head passed through it	The fectus and placenta Living passed into the world almost without pain	Sponta- Induction of premature Dead neous at labour was recom- 7 months mended, but refused	Labour lasted 60 hours. Anterior segment of os uteri dilated sufficiently to allow the passage of a small fætus
Natoral	offorts.	Natural	Prema- ture at about 6 months	Sponta- neous at 7 months	At term, a small fœtus, natural efforts
,	hard and projectional	1	2 years Extreme pain in the Prema- or back, emaciation, and ture at more extremely offensive dis- charges. The whole os 6 months uteri and a large part of the cervix was eaten away by ulceration	Malignant fungoid disease of the os uteri	Lancinating pains; wasting. Posterior limbus of os uteri and cervix of scirrhous hardness
-			2 years or more	1	1 1 1 1 1
1	Stb.	nancy	1	1 633	39 10th preg- nancy
Dalloine.	Maighnes	Merriman, quoted in Lee's Clinical Midwifery, 2nd edition, p. 92	Merriman, op. cit., p. 92	Robert Lee, op. cit., p. 91	Lever, Organic Diseases of the Uterus, p. 219
1		20	21	55	53

	,			
· Further history.	Dr. Lever again attended in next confinement 2 years afterwards. Dr. Lever again attended 11 months afterwards.	Six months after labour the disease was progressing. Patient subsequently ascertained to be "in the last stage of malignant disease of	uterus." The pressure to which the anterior lip of the os uteri was subjected caused the disease to progress rapidly to ulceration."	Six weeks after delivery
Immediate result to mother.	Conva- lescence rapid Nothing occurred to prevent con- valescence, except pain and heat in the region of the tumours	Recovered	Recovery most favorable	Symptoms
Result to child.	Living	Living	Not	De-
Details of labour.	Labour of 6 hours' dura- Living tion. On anterior part of os uteriwere 4 or 5 small bodies the size of peas The bodies detected in Dead previous confinement were still present, the two largest the size of horse-beans, the others as large as peas; the surrounding tissues thickened and hard. Os uteri dilated with great diffi-	culty. Labour lasted more than 24 hours Labour lasted 7½ hours Living	"After some hours of great suffering the posterior lip dilated sufficiently to allow the head to pass"	Suddenly seized with
Mode of delivery.	Natural efforts Natural efforts	Natural efforts at 74 months	Natural efforts, child under the standard size	Natural s months
Chief symptoms and signs indicating cancer.	Pains in loins; irrita-bility of bladder During last 3 months hardly ever free from pain	1	"Anterior lip of os uteri Natural occupied by a firm, scir-rhous, tubercular deposit; posterior soft and under the standard size	Watery discharges and Natural
Duration of disease.	1 1	1	1	From
Age and number of preg- nancies	3rd preg- nancy 4th preg- nancy	5th preg- nancy	40 12th preg- nancy	42
Authority and number Duration of preg. disease.	Lever, op. cit., p. 221 Lever, op. cit., p. 221	Lever, op. cit., p. 221	Lever, op. cit., p. 218	Oldham,
No.	25	56	27	28

progress rapidly to ulco-	Six weeks after delivery	wards,	6 months afterwards the "neck of the uterus was entirely eaten away by cancerous ulceration, with hard, jagged bor- ders." Died some months later.	After delivery she regarded herself as cured, though the ichorous discharged continued. She died 5 months after delivery. Autopsy showed that ulceration had destroyed the cervix uteriand the upper part of vagina, and had opened into the bledday.	The life of the mother was prolonged.	Left the hospital after a short time. Died after some months from cancer of the womb.
	Symptoms		Recovered	Recovered	Recovered	Recovered
1	District	com- posing	Dead, lecom- posing	Dead	Not	Living
to pans " no allow the nead	and Natural Suddenly seized with	5 days before delivery, without any dilatation of os uteri	with much loss of pains, Dead, with much loss of blood, decomthe "fleshy bag" opened and allowed the head to pass	After about 7 hours' labour a dead child was expelled, to the great surprise of her medical attendants. It was fully developed	Very painful, but termi- nated without aid	Easy labour, without any Living unusual conditions
stander the	Natural	con-8 months onths with ages	Natural efforts at term	Natural efforts at term	Prema- ture at 6 months	1
posit; posterior soft and un	Watery discharges and	os uteri. Patient fined to bed 4 mo before delivery pain and hæmorrha	At the time of labour the cervix formed a large tumour, which the midwife took for the child's head	About Hæmorrhages 9 months; 9 very copious fetid dis- before pain; progressive loss de- livery entirely destroyed; it was replaced by a very large irregular ulcer	Cancer of the uterus	Cancer of neck of womb. The disease remained stationary during pregnancy
A Transmit	Woon!	child a year before; whites for 4 years	1 1 8 1	About 9 months before de- livery	1	1
/ Kour	40	para	4th preg- nancy	25	1	1
	Chabinos .	Ubserva- tions sur la Grossesse, Obs. 265	Boivin et Duges, Traité Pra- tique des Maladies de PUterus, vol. ii, p. 56,	Bagli et Cazal, Dict. des Science Medicale, t. iii, p. 592 from Chan- treuil, p. 6)	Meissner, from Hachmann	Boers, quoted by Hachmann & Cohnstein
/	1000		30	31	32	33
/	1				5	

Further history.	Recovered Left the hospital after a short time. Further course not stated. Died 5 months afterwards. Autopsy showed cancerous destruction of cervix uteri and base of bladder. Body of uterus healthy.	No hæmorrhage for 3 months after delivery; then frequently recurring hæmorrhages began to take place, with fœtid discharges in intervals. Examination then showed deep excavated ulceration in anterior vaginal cul de sac and on vaccinel nor
Immediate result to mother.		FAVOURABLE Much hæmorrhage mon following then separation ring of placenta gan foctil tery then cava ante
Result to child.	Living	WITH Decom-
Details of labour.	As in the above case After 7 hours' labour a Dead fully developed child was born, to the surprise of the medical men in attendance, who had not suspected pregnancy	weeks Forceps, Partial placenta prævia. Ante-applied as Edge of placenta felt to cick, un-soon as left. Pains feeble; dilasterior the os tation of os slow; much ensible. was big hæmorrhage for 2 days size of enough before delivery. Tamto allow pons and enemata of of it secale cornutum resorted to to procure dilatation. Frequent rigors and vomiting
Mode of delivery.	At term, natural efforts	weeks Forceps, . Ante-applied as ick, un-soon as osterior the os ensible. was big size of enough to allow of it
Chief symptoms and signs indicating cancer.	As in the above case Hæmorrhage, especially after coitus; wasting; no pain; fœtid discharge in intervals of hæmorrhage. Cervix uterientirely destroyed; in place of it was a broad ulcer, with uneven and fissured edges, in which the os uteri could not be distinguished	P
Duration of disease.	9 months	WHICH weeks
Age and number of pregnancies.	1 %	S IN 32 multi- para
Authority and number of reference. of pregatises.	Boers, op. cit. Delbech, from D'Outre. pont, op. cit.	B.—CASES Schmidt's Jahrbücher, n vol. cxxii, p. 300, 1864, Fischl.(Allg. Med. Ztg., ix, 8, 1864)
No.	35 35	36

anterior vacinal ond de	Termination not re-	Patient was very weak after confinement, but recovered enough to suckle the child for 5 months; then hæmorrhages returned, and she had to wean. Later the tumours were removed,	a time better. Termination not recorded. Immediately after delivery the scirrhosity appeared of the size of a goose's egg. The patient lived rather more than 3 years after her confinement, and died	with all the symptoms of carcinoma uteri.
A STREET, SQUARE, SQUA	Health was quickly re- established	Recovered	Recovered	Recovered
		Living	Living	Living
dilatation, Frequent	meter (numerous fissures having formed in the scirrhous ring) forceps were applied. Delivery caused great pain	After about 24 hours' Living labour os uteri was firm, and only slightly dilated. Ergot was then given. After about 12 hours the os was completely dilated, and rupture of membranes took place;	Forceps After labour had lasted Living 3 days the mouth of the womb was dilated but to a small extent, "but it was forced by the vio- lence of the pains down almost to the os exter-	num;' the woman bled; forceps then applied Labour lasted 84 hours Living
		Forceps	Forceps	Forceps
COLUMN STATE OF STATE	Cervix uteri hard, thick, uneven, scirrhous, form- ing a ring swollen at intervals	More Much haemorrhage bethan fore and during labour. 3 Around os uteri were felt many excrescences, shrivelled, but bleeding when touched, seated on a large smooth insensitive surface	A hardness amounting almost, if not quite, to scirrhous, occupying at least two thirds of the os uteri	Cancer of anterior border
	1	More than 3 months	1	1
		53		21
	p. 375	Löwen- hardt, Chantreuil, op. cit., p. 26	Lever, op. cit., p. 223	M. Butler, from Cohnstein, Case 60
-		38	39	40

C .- CASES IN WHICH DELIVERY WAS ACCELERATED BY TURNING, WITH FAVOURABLE RESULT TO

MOTHER.

Further history.	The cancerous disease proceeded slowly onwards, and she died in about a year	Recovered Left the hospital in about 8 days.	
Immediate result to mother.	Recovered	Recovered	No great degree of hæmor- rhage; patient did well
Result to child.	Living	Living	Dead
Details of labour.	Symptoms demanding Living artificial delivery supervened by the time that os uteri was nearly fully dilated. Cervix tore slightly as head passed ("perhaps a previous incision would have	The os slowly dilated, Living and after 2 days labour the hand could be introduced and the position, which was transverse, rectified. Feet were brought down and child	After 8 days, labour os uteri dilated about 1½ inch; neck shortened; a breech presentation recognised. Next day there was fætid discharge from vagina; os 2 to 2½ inches in diameter. By fingers and hook a foot was brought
Mode of delivery.	Turning	Trans- verse pre- sentation, turning	Breech presen- tation: feet brought down: traction with hook
Chief symptoms and signs indicating cancer.	Carcinomatous indura- tion of posterior lip of uterus	Circumference of os Trans- studded with three pro-verse pre- jecting and very hard sentation, tumours separated by turning narrow furrows	The whole neck of the uterus scirrhous, apparently undilatable to any extent. The finger could be merely introduced within the orifice to a long, contracted canal in the cervix
Duration of disease.	1	1	Table 1
Age and number of preg-	Multi- para	30 4th preg- nancy	1
No. Authority and number Duration of reference. of preg. disease.	Simpson's Works, vol. i, p. 500 (Watt Black's edition)	Marchand, Chantreuil, op. cit., p. 91	Hodge, op. cit., p. 287
No.	41	42	43

	-			
a court add the unit	portions of it being sur-	rounded with galvano- caustic wire, and the rest destroyed with the cautery point. Patient recovered well. 4 months afterwards uterus was 1\frac{3}{5} inch long, and cica- trix smooth and firm.	Condition was much improved till about the 14th or 16th day, when the old symptoms began to return. She died 9 weeks after delivery. Autopsy showed dilatation of ureters, cauliflower-like growths and ulceration of vagina and uterus.	Colotomy performed in 3rd week after delivery; a week after this patient died. No marked alteration in symptoms after delivery.
1			Died 9 weeks afterwards	Recovered
			Not	Living
charge from vagina; or 2 to 24 inches in diameter. By fingers and			After 19 hours' labour pains the os would only admit two fingers. The elbow presented. Child turned by the bipolar method, and a foot brought down; the buttocks were left to dilate the os without further traction. The head remained about an hour in the os. No trouble with the afterbirth	Labour induced by leav- ing a gum elastic ca- theter in utero. Delivery effected by pulling down feet and bringing head through with forceps
with hook	labour	at at 8 months, turning		Premature labour induced at 7½ months
canal in the cervix with book	ed a pap	growth of the kind known as cauliflower excrescence	Continuous hamo and lancinating p cauliflower - like springing from t side of the cervix the whole lower the uterus very the vagina and la dendi for the mo indurated and s with larger or cauliflower-like cences	About A hard lobulated mass found occupying upper and posterior part of from vaginal canal, extending to within 2 inches of ing of vulva. Per rectum a preg-large fungating tumour felt, evidently identical with that occupying vagina. Cervix and os uteri not implicated. Rectum almost occluded
			From begin- ning of preg- nancy	About 7 mos.: from begin- ning of preg- nancy
	nancy		33 4th preg- nancy	53
None of the last	Journal of	Obstetrics, vol. i, p. 83	J. C. G. Jörg, Schriften zur Beför- derung der Kenntniss des Mensch- lichen Weibes, 1812, p. 250	Potter, Meeting of Obst. Soc. London, May 1st, 1878
1			5	46

D.—CASES IN WHICH INCISIONS WERE MADE INTO THE CANCEROUS CERVIX, AND WHICH TERMINATED FAVOURABLY.

Recovered Further history. Recovered Patient recovered well, and left her house in 12 or 15 days. No record of further progress. Recovered "The progress afterwards presented nothing remarkable." No The cancerous disease ggravation proved fatal a few months subsequently.	other after
Fatient and le la or record gress. The wards thing thing month	elivery.
Recovered Patient recover and left her 12 or 15 da record of furt gress. Recovered "The progres wards presenthing remarkal fatal of months subsem	Honovered Died 10k mussing
Chief symptoms and signs A cancerous tumour, as Prema- big as the fist, growing ture at from anterior lip of os; the rest of the cervix months. Broken down; the valuation of the cervix during pregnancy and during pregnancy Cervix, Extensive cancerous dis- Chief symptoms and signs After 3 days ineffectual Dead, colidated through the os was as big not defact as a five-franc piece, its commandia and the construction of the cervix incision coupled about 20 minutes. Constituting pregnancy At term At term	Arried May 1 and forest the Living parties became no violent
Mode of delivery. as Prema- ng ture at s; 6½ ix months. ily Turning, a- incision e- es into cervix, and forceps. At term is- Incisions into cervix, and vix, and	At term.
Chief symptoms and signs indicating cancer. A cancerous tumour, as big as the fist, growing from anterior lip of os; the rest of the cervix hard, resistant, easily broken down; the vagina also invaded. Repeated hæmorrhages during pregnancy Scirrhus of neck of uterus Extensive cancerous disease of cervix uteri	Repaired beemosphistes At term. Arter's in the last month of forestone, and a
	month
Age and number of pregnancies. 27 5th pregnancy nancy	1000
Authority and number of pregreterence. Guéniot, 27 — Guéniot, 5th op. cit., pregronance, p. 12 nancy Madame — — — — — — — — — — — — — — — — — — —	Spionterini.
No. No. 47	100/

PARTY NAME OF PERSONS ASSESSED.	Died 10½ months after delivery.	Death from the cancerous cachexia and erysipelas ambulans starting from the genital organs. On autopsy, about one third of the periphery of the cervix was found still spared by the cancer; the uterine body not invaded; perforation of vesico-vaginal wall; psoas abscess
Transfer en	Recovered	Death on 40th day
	Civing	Living
The state of the s	After 3 days' labour the Living pains became so violent and the os dilated so little that rupture of uterus was feared; three incisions therefore made, two lateral, one anterior. Only slight hamorrhage. Forceps then applied. Placenta expelled spontaneously. No hamorrhage thaneously.	
gii:	At term. Incisions, forceps	a hard, Incisions, extend-forceps ngth of jecting acasure canal, a pro-The thirds on and vithout ir. Os a shape tion of ior vacervix cervix Leucor-5 or 6 General y good.
The Property of the Parket	Repeated hæmorrhages in the last month of gestation. Vaginal portion long and hard; anterior lip large, of cartilaginous hardness, with nodosities; posterior lip softer, as if suppurating and in process of destruction	months third presented a hard, Incisions, uneven tumour, extending the cervix, projecting into and in a measure obliterating its canal, below forming a projecting tongue. The remaining two thirds showed induration and irregularity, but without a distinct tumour. Os uteri semilunar in shape owing to projection of tumour. Posterior vaginal wall near cervix also altered. Leucorrhoat, not fœtid, 5 or 6 months or more. General health apparently good. Pain in later period of pregnancy
	A month or more	5 or 6 months
	44 10th preg- nancy	6th preg- nancy
	Spiegelberg, Chantreuil, op. cit., p. 78	Guéniot, Chantreuil, op. cit., p. 80
	20	5

Further history.	Died "in the following year" from the progress of the cancerous cachexia (confined Oct. 17).	Died 6 months afterwards.	The patient lived for more than 2 years afterwards, the carcinomatous ulceration gradually excavating and destroying the whole contents of the pelvis.	"It is remarkable that the mother survived, in
Immediate result to mother.	Normal	Normal	Rapid convalescence	Recovered
Result to child.	Living	Living	Living	Dead
Details of labour.	No dilatation taking Living place, even after ergot had been given, incisions were made; no pain or hæmorrhage followed. Pains being then feeble, forceps were applied. Hæmorrhage in third stage, requiring artificial	After 2 days' labour in Living cisions made into the cervix; the prepared sponge introduced, and removed after 4 hours, when there was still little dilatation. Then	forceps were applied First stage of labour Living natural; child then ex- tracted with forceps. It was necessary first to freely incise the carci- nomatous mass. In bringing down the head the perineum, which was quite indurated and	tuberculated, tore in its whole extent Lingering labour. Pre- Dead mature rupture of mem-
Mode of delivery.	Ergot, incisions, forceps	At term. facisions, dilatation with sponge, forceps	Forceps, incisions	Incisions, forceps
Chief symptoms and signs indicating cancer.	Often ill since last confinement, 4 years previously; pain, sanious and fœtid discharge. Os uteri swollen in all its circumference, indurated, and tender; the finger could be inserted	Cervix uteri converted into a hard, bossy, bleeding tender mass, invading posterior wall of vagina	Septum between rectum and vagina perforated by carcinomatous ulceration. The disease did not extend to uterus	Cancer of the lower seg. Incisions, ment of uterus and the forceps
Duration of disease.	1	1	1	1
Age and number of preg-	38 8th preg- nancy	14th preg- aancy, 9th labour	1	35 5th
Authority and number of pregulation of pregulations.	Lowen- hardt, Chantreuil, op. cit., p. 86	Natale. Chantreuil, op. cit., p. 87	Simpson, Obstetric Works, Watt Black's edition, p. 500	Stein, from
No.	25	53	54	55

	No. of Lot, Lot,	1		The state of the s	
uterus.	No symptoms during pregnancy. 2 months after delivery hæmorrhage and increase of tumour. Death 4 months after.	Мотнев.	After the labour the pain and discharge were greatly increased. On autopsy the cervix was found very much thickened, and ulceration had commenced.		
	Recovered	UNFAVOURABLY TO	Died in a few days	Died in the second week after deli- very	Died soon after deli- very
	Living	VOUR	Not stated	Not	Living
LINGER, INCISIONS, JOECOPS	Incisions, forceps, on ac-Living count of feeble pains and faintness. Retained placenta	NATURAL EFFORTS ALONE, UNFA	Two days elapsed before the os uteri was completely dilated, and the dilatation was performed with greater suffering than usual. The head at length passed through it	Child born before the midwife could arrive	With this labour no Living operation was performed
- Constitution of the Cons	At 6th month	RAL EF	Natural	Natural efforts (prema- ture)	Natural
Continue of the Annual Continues	Cauliflower-like tumour, of the size of a citron, springing from anterior lip of os and descending into vagina	TERMINATING BY NATU	Cervix uteri greatly thickened in every part, and felt like cartilage; it was tender on pressure. Profuse leucorrhæa and attacks of pain during latter part of pregnancy	The whole disc of the os uteri destroyed by malignant ulceration, the vagina being extensively affected also	On returning home from a case of labour Dr. Merriman was informed by Dr. S. Merriman that the patient had a scirrhus of the os uteri. She, however, conceived again
	1		1	1	1
	preg- nancy 40 6th preg- nancy	E.—CASES	40	1	The later
Local Tox	Connstein (Case 102) Wallstein, Cohnstein (Case 92)	Ä.	Sir C. M. Clarke, Discases of Women attended with Discharges, 3rd edit., 1831,	Rams- botham, Medicine and Surgery, 5th edit.,	P. 244 Merriman, quoted in Lee's Clinical Mid- wifery, 2nd ed., p. 92
	57		89	29	09

No. Authority and numbers. No. Authority and numbers. Authority and numbers. Authority and numbers. Siebold's at mouth Metricratigue, before parterntagine, before pain; and senting febrates, before pain; furianty and senting febrates, before pain; furianty and senting febrates, before pain; furianty and senting febrates, before pain; unmay described pain; unmay senting febrates, before pain; unmay described pain; unmay senting febrates, and faitinging senting pain; furial discharge; severe; so a suteri decisia. Portio vagina, hard, fisualed, tender, hard, fisual, for for every and posterior vagina, hard, fisual, fisual and posterior vaginal uneven and posterior vaginal uneven fine and fetting pains decisia. Portio wagines of fine and fetting for for first transmitted to fine and fetting for first for	1	ii s ii	Ye. Hartakeret	24
Authority and number of pregenation of pregenations and signs of pregenations of the prege	Further history.	Autopsy showed peritonitis over uterus. Gangrene* (?) of upper part of uterus. Lower part of uterus black ulcerated, cancerous. A fistulous opening between bladder and vagina. *(P.M. 2 days after death.)		The brings of the state of the
Authority and number of pregenation of pregenations and signs of pregenations of the prege	Immediate result to mother.	Severe pain, hæmor- rhæge, rigors, fol- lowed labour. Death by collapse in 2½ hours	Died from peritonitis on 5th day Died 4 days after deli-	of the second and abrowed course attracts
Authority and number of pregenation of pregenations and signs of pregenations of the prege	Result to child.			pheces finger,
Authority and number of pregulation of pregulations of pregula	Details of labour.	Os uteri more than an inch wide before labour had begun. Labour set in with hamorrhages and faintings; pains frequent and severe; os uteri descended without opening. After about twelve hours labour the cancerous cervix tore in two places, where there was thinning between the lobes, and where Dr. L. had intended to incise it; considerable hamorrhage accom-	After more than 39 hours strong labour the pains seemed to have no effect in dilating the os. While a consultation was being held as to further treatment a few strong pains drove the child into the world Labour lasted 2 days; constant vomiting	labour. Pains very
Authority and number reference. Laubreis, Siebold's Journal fur Geb., vol. nancy Geb., vol. nancy vii, p. 400, Disease of Women, 5th pregedit., p. 366 nancy op. cit., p. 741 D. D. Davis, 32 Authority and number of preference disease. Iseand poor cit., p. 366 At Cervix nore delication of cerving and poor cit., p. 741 D. D. Davis, 32 Op. cit., p. 741 Preg. Davis, 99th months charge, by which charge, p. 741 Preg. Davis, 99th months charge, by which charge, py very posterio any, this preg. fuse and poor cit., preg. fuse and contents charge, py very posterio any, this preg. fuse and poor cit., preg. fuse and contents charge, py very posterio any, this preg. fuse and poor cit., preg. fuse and coor cit., preg	Mode of delivery.	, 4		- Colonias
	Chief symptoms indicating ca	Emaciation and hectic. Metrorrhagia; bearing down; lancinating pain; urinary and rectal tenesmus and pain; fœtid discharge; rapidly advancing cachexia. Portio vaginalis uteri swollen, filling upper part of vagina, hard, fissured, tender, bleeding readily when touched. Lower third of cervix and anterior and posterior vaginal walls equally hard and uneven		oy which she was ex-
	Duration of disease.	months before deli- very	At least 5 mos. before delivery very 9 months	
	Age and number of preg- nancies.	30 4th preg- nancy		_
	Authority and reference.	Laubreis, Siebold's Journal fur Geb., vol. vii, p. 400, 1827	Churchill, Diseases of Women, 5th edit., p. 366 D. D. Davis, op. cit., p. 741	Contraction of
	No.	19	63	

1						
Specialists approached to the	pieces of it could be broken away with finger, and showed partly fibrous, partly "fungous" structure; hard nodules extending from breasts to axilla; breasts flabby.				Contrary to the expectation of the author.	
after dell-	of it coulc and showe ous" structu n breasts to	Did not survive long.	Died from subsequent hæmor-rhages in 6 days.	Death immediately after delivery.	Survived 5 or 6 days	
	pieces finger, "funge	Dead	Atro- phic, but living	Not stated	Dead	
Sometant Voliming	labour. Pains very severe	She was six days in labour, there being no dilatation of the os uteri, which was very hard. On the 7th day delivered of a dead child	Labour lasted 72 hours	"very quick; horribly painful"	Delivered by a midwife of an abortive infant, of about seven months; the midwife believed that there was a "false conception" behind. This body was the placenta shut up in the	womb. With great difficulty two fingers were introduced and placenta removed
- CHICAGO		At 8th month natural efforts	"Traction du cor- don"	Natural	Premature at 7 months	100
		A cancerous ulcer of the neck of the womb	The mouth of the womb "Traction Labour lasted 72 hours was as large us the fist, du corand filled all the vagina don"	Cancer of neck of uterus; operated on with écraseur and actual cautery; became pregnant immediately on leaving hospital	Much emaciated, as in the last stage of a consumption; violent pain; 7 there came from her a very fetid discharge; uterus quite scirrhous; to the feel was like the head of a child; a great	hardness all round the os uteri, which would barely admit one finger
		1	Many	1:	1	
-Sand		35 multi- para	1	34	1 1986	
Jamesing	(Wurtem- burg Cor- respond., Blatt, No.	Levret, Chantreuil, op. cit., p. 25	Levret, Essai sur l'Abus des Régles Gen., Art. XIII	Putegnat, op. cit., p. 36.	Brudenell Exton, System of Midwifery, Case 19	
		65	99	29	89	

100			-	- Harrison	
Further history.	Child weighed 11 lb. Laceration of uterus.				Died 3 days Autopsy.—The whole after neck of uterus enlarged; knotty tumours 2 inches thick by 1 inch filled the vagina; an ulcerated opening through which the thumb could be passed into bladder.
Immediate result to mother.	Died	Died in 3 weeks.	Died on 14th day.	Died soon after labour.	Died 3 days
Result to child.	Living	Dead	Living	Not	Not stated
Details of labour.	After expulsion of the Living child uncontrollable hæmorrbage	-	Easy labour	Labour lingering and Not painful. Dilatation of stated os uteri took place entirely at the expense of the most of	Very severe labour
Mode of delivery.	Natural	3 weeks prema- ture natural	efforts Natural efforts	Natural	disease Prema- g which ture at Hæmor- 7 months nd fever nonth of
Chief symptoms and signs indicating cancer.	Medullary carcinoma of posterior lips; 9 cent, in breadth	Cancer of os uteri	Cancer of vaginal por- tion and lower segment of uterus	Cancer of anterior lip	Carcinomatous disease of uterus, during which she conceived. Hæmorrhage, pain, and fever after the 5th month of pregnancy
Duration of discase.	1	1	1	1	1
Age and number of preg- nancies.	27 4th preg- nancy	1	1	1	1 10 10 10
Authority and number of preg- nancies. discase.	Hugens- berger, from Cohnstein (Case 103)	Hedrich, from Cohnstein (Case 103)	Kilian, from Cohnstein (Case 91)	Desor- meaux, from Cohnstein, (Case 43)	John J. Sharpless, quoted by Hachmann and Cohn- stein
No.	69	70	11	72	73

	CAN	CEROUS DISEASE	OF THE GENITAL	CANAL. 05
A STREET, SAME AND A STREET, SAME AND ASSESSMENT OF THE PARTY OF THE P	dently existed before delivery. A laceration of os uteri, not involving the peritoneum.	Died in 14 Death from exhanstion.	Death from pyæmia on 13th day. Sloughing of epitheliomatous growth and part of vaginal wall. Abscess by the side of vagina.	No autopsy.
ACCOUNT OF THE	followed delivery; uterus contracted well. Patient died 24 hrs. after delivery, apparently in collapse	Died in 14 days	Hæmor- rhage after- wards only slight	Died 29 hours after delivery in collapse
	mis peeling off	Not stated	Living	12 Dead re- and de-for com- any posing nd- re- ed,
	Ds uten dilated slowly; Epider- næmorrnage pains severe; feverish- mis followed ness; and great prospecing delivery; tration. Pains becoming feeble, forceps applied, and childextracted with ease with ease delivery, apparently in collapse	After 2 days' strong labour the os was not in the least dilated. While preparations were being made to incise it, a laceration about 3inches long took place in posterior lip. Delivery completed with forceps		First stage lasted 12 hours. The head remaining in cavity for I hour, without any advance, notwithstanding strong pains, chloroform was administered, and forceps applied
	at term	Forceps.	Barnes's water dilating bags, and forceps. At term	Forceps
	months before, to bth month of gestation; pains and watery dis- charge during last 3 weeks of gestation. Os uteri very irregular, sur- rounded by 4 or 5 hard, smooth, irregular dis- posed tumours, the lar- gest behind	Os extensively thickened and indurated with can- cer	About Advanced epithelioma- 9 tous degeneration of water nonths cervix, affecting vaginal dilating wall behind and to left; bags, and bleeding readily when forceps, touched. Repeated At term floodings and vaginal discharge during preg-	Os uteri the size of a two-shilling piece; hard, cartilaginous and jagged; examination painful; hemorrhage and fætid discharge
	months	1	About 9 months	
	6th preg- nancy	33 10th preg- nancy	33 3rd preg- nancy	29 5th preg- nancy
opposite !	Dp. cit., p. 371	J. W. Kay, Lancet, vol. ii, 1870, p. 876	Edis, Obst. Trans. vol. xvii, p. 344	Johnston, Report of Rotunda Hospital, 1871
		72	92	11

G .- CASES DELIVERED BY TURNING, WITH UNFAVOURABLE RESULT.

Further history.	The state of the s	Autopsy. Medullary carcinoma of neck and lower part of body of uterus.	Autopsy showed such destruction of utcrus. vagina, and bladder, that one would hardw
Immediate result to mother.	Copious hæmorrhage followed delivery, re- ducing patient to syncope. Next day hæmorrhage recurred, and was fatal.	Died on the Autopsy. 18th day carcinom lower pauterus.	Died soon afterwards
Result to child.	Sus- pended anima- tion at birth. Lived 24 hours	Not stated	Not
Details of labour.	Turning Labour lasted 2 days. Os dilated slowly; Sussponges soaked in seda-pended tive and emollient apanimaplications were inserted tion at to dilate it, with effect. The head not descend. Lived ing, the child was delivered by turning. Hours Placenta had to be manually removed	Shoulder presentation. After 8 days labour, the waters having broken, and 2 attempts made to turn, lacerations took place in cervix and posterior vaginal cul-desac, through which loops of intestine came down. The child was	then turned and de- livered Ruptura uteri was feared: the still healthy part at on side of the cervix dilated; delivery was
Mode of delivery.	Turning	Turning	Turning Full term
Chief symptoms and signs indicating cancer.	hage, pain, te- Hæmorrhage pregnancy very much exhaust- A scirrhus of linary size and s, growing from de of posterior uterus, divided bes, and filling he whole vagina.	affected Pain 3 years. Foctid discharge a year. Hæmorrhage 2 months. The whole os uteri knotty, forming a firm hard ring	Cancerous disease of the Turning womb
Duration of disease.	17 months before de- livery	2 years	1
Age and number of of pregation of pregation of pregations.	36 14th preg- nancy	33 6th preg- nancy	1
Authority and reference.	Elias von Siebold, Journal für Geburts- hülfe, &c., vol. vii, p. 578, 1827	Chiari, Braun and Spaeth, Klinik der Geb. und Gyn., 1855, p. 187	Elias von Siebold, Journal für Geb, Bd. iii,
No.	18	79	80

destruction of degram			-			The second second	Contract of the last	The second second		The second second	The same of the sa	New Contraction			Rupture of uterus.	
afterwards			Died on 4th	day from acute puer- peral fever.					Died after 3 days.				Died after	· franco	Died	1
popula	nosing			com- posing					Dead				Dead		Dead	
the will healthy part at	bags, and then delivery	effected by turning. No undue hæmorrhage oc-	The left arm of the child	felt lying in the vagina. Cuticle already peeled off. It was not possible	to introduce the hand and turn by the feet without tearing the	uterus; but after some hours the os became	and then the feet were brought down: Pla-	centa followed without much hæmorrhage	The child was turned by the feet, although the	carcinomatous degen- eration rendered the			Labour lasted 44 hours		Labour protracted over	tion of child. Turning
Full term	came on	at 7 mos.	Turning						Turning			The same of	Prema-	7 months.	Turning	
Womb	presentant		pain; fœtid	discharge. Os uteri thick, uneven, and no- dular		-			Hæmorrhage, white dis- charge, and debility. A	hard, painful, tubercular substance.	#-	into the os. Carcino-	matous degeneration Ulcerated cancer of os		Cancer of cervix uteri in	200
-			Since	last preg-	nancy				From 5th	month	preg-		1			
-	" NYBIE.		46	9th preg- nancy					40 5th	preg-			1		43 10th	preg- nancy
a Constant	don with		Elias von	Siebold, Journal für Geb., &c.	Bd. 7. p. 536				C.E.Stricker Puchelt de	tumoribusin	impedi- mentibus.	Case 24	M.J. Brown,	Cohnstein.	Lowenhardt	Cohnstein.
00			82	-			300		83				84		85	

H.—Cases in which Incisions were made into the Cancerous Cervix, but which ended

ovarian veins. A collection of pus in left left lung, although the patient had never com-Autopsy showed laceration of cervix. Softening and laceration of neum, bladder or rec-No pus in utehypogastric, or pleura, and some small plained of anything rethe cancerous tumours. gangrenous points ferable to this part. Further history. No lesion of tum. rine, fell, and she days after-Pulse never sank in 2 or 3 days after-Immediate Died 44 to mother. wards result Result Dead child. The membranes having tion taking place. Two Patient had been ill for tremely rapid; cervix not at all inclined to unequal hard tumours, ture at 61 ruptured and no dilatawere made about 36 hours but afterwards pains ceased, and vomiting 5ss of ergot was given (child then alive). The fætid discharge. Four days after the beginning 3 days, was much exhausted, and pulse ex-2 or 3 email after commencement of labour, No hæmorrhage, no pain followed, set in 24 hours later. Was of labour, a dead child was expelled. No subhæmorrhage. Placenta followed natu-Details of labour. day there lateral incisions UNFAVOURABLY. sequent viold next a filbert, occupied the Incisions. Cervix indurated by car- Incisions of which 3, the size of months. Cervix uteri, the seat of Premacinomatous induration into cer-Ergot vix and of delivery. natural efforts Mode anterior lip; more nu-Bood but smaller did not suspect the disease, but enjoyed in mucous membrane indurated, especially to the right. The patient tumours, separated by deep fissures, occupied Vaginal involving bladdor Chief symptoms and signs indicating cancer. other respects posterior lip. at one side merous, health Authority and number Duration disease. 0 of preg-nancios. preg-nancy 3rd Chantreuil op. cit., p. 75 reference. Malgaigne, Simpson, op. cit., p. 500 No. 87 98

1			ss ss	not	be er-
ı			Fætid discharge, sloughing of a part of the growth, and pyrexia followed. Patient left hospital on the 60th day. Further progress not recorded.		Lived about Cervix found to be the seat of malignant ulceration. Some ulcerated patches had perforated posterior wall of vagina, and communicated with peritoneum. A low form of peritonitis with purulent effusion.
		TH	ge, s	history	seat of malignant ration. Some rated patches ha forated posterion of vagina, and c nicated with neum. A low f peritonitis with lent effusion.
В		IM	pharand and and and and and and and and and	his	seat of maligna ration. Some rated patches l forated posteri of vagina, and nicated with neum. A low peritonitis wit lent effusion.
		CD,	discontinuo discontinuo di discontin	n.	of non.
R		Сипр, мити	'œtid discharging of a pargrowth, and followed. Parchospital on day. Further not recorded.	Further given.	Serving seat ratio rate for a of v nica neu peri lent
1					out
days after		TH	Recovered	Recovered	a month
day		OF THE	Rec	Rec	a n a
23	-				
		RATIONS INVOLVING THE DESTRUCTION FAVOURABLE RESULTS.		1	
A COL	The same	RU	on, ing os os os allo-ied, iffi-ied, had had hat bass oass	rag-	own hen ex- de- ne- omy
ned to		EST	After 6 hours dilatation, the largest bag having been ruptured, the os uteri would admit 3 fingers. The cephalotribe was then applied, but delivery was difficult. After three hours manipulation the os had become so dilated that it was possible to pass the whole hand through it	Fœtus expelled in frag- ments during ensuing 3 months	Os uteri dilated to about the size of a crown piece; patient then getting weak and exhausted, immediate delivery was thought necessary, and cramiotomy performed
inclined inclined	A COL	Es.	s dil bag red, i a cen, i a cen, i a cen n three in the dilat dilat ible and	led ng	ited a trien ak need thou thou
all inc		THE	pour dest properties of the pr	xpel duri hs	dila pa pa we we we was was had
ylon,	==	RES	larglarglarglarglarglarglarglarglarglarg	ætus exp ments du 3 months	he size piece; piecting whausted, in livery was cessary, an performed
tromoly not at	cise it	VIN	Afte the peed the peed trip put trip put cult man become the the tit with the trip peed to the trip peed trip peed trip trip trip trip trip trip trip trip	Foeti mei 3 n	0
	The Person of th	ONS INVOLVING THE I	growth, Barnes's After 6 hours dilatation, e circuit hydrosta- the largest bag having nding to tic dilatory and tors and tors and tors and tors and tors and torhage term torhage term torhage term torhage a and become so dilated that it was possible to pass the whole hand through it.	yo-	
STORE	months.	IN UR	Barnes's hydrosta- tic dila- tors and cephalo- tripsy: at term	mbryo	Cranio- omy and crochet
September 1		NAV	us growth, Barnes's chole circuit hydrosta-extending to tic dilabehind, and front; very cephalohard. Retripsy: at hæmorrhage term pregnancy.	Ulcerated carcinoma of Embryo- cervix	ng d-d- c-
Digital .	vagina,	MILE	vhole circuit extending to behind, and front; very hard. Re-hæmorrhage pregnancy. æmia and	ma	of ulcerating n the cervix. had not adoo fast during y as Dr. Old-lid have expec-
1000		ER	Lead Francis	cino	
10,230	filling the involving rectum	BY OPE	atous g whole i, exten ill behin in front d hard hæmo preg anæmia	car	of the the had had so faster as the had
10000	illin	BY	ving ving uter c was ler i an	x	ass ed sed s nanc wou
ANGES.	lip, filling and involv and rectum	Q	Carcinomatous growth, involving whole circuit of os uteri, extending to pelvic wall behind, and bladder in front; very thick and hard. Repeated hæmorrhage during pregnancy. Great anamia and cachexia	Jeera	A mass of ulcerating cancer in the cervix. Disease had not advanced so fast during pregnancy as Dr. Oldham would have expected
1	- 8 8	TERMINATED	0	5	4 ou Leas
		MIN	Symp- toms began in first month of preg- nancy	-1	
1	-	ER			
			41 12th preg- nancy		39
1	9	-CASES	n, ical c- ol. 239	en- oted au- not	n, l of ne,
-	Hachmann	9	Galabin, Obstetrical Transac- tions, vol. viii, p. 239	P. R. Menzies (quoted by), but authority not	Oldham, London, Journal of Medicine, 1851, p. 206
	Had	H	Galabin, Obstetrical Transac- tions, vol. xviii, p. 239	P. I zies by), thou	Ne La
1			68	06	16
		-		-	

J.-CASES DELIVERED BY OPERATIONS INVOLVING THE DESTRUCTION OF THE CHILD, WITH UNFAVOURABLE RESULTS.

No. Authority and number Dontifon Chief symptoms and signs Angus Angus			
Angus Are and number discuse. Angus 34 Angus Badonald, primit than 21 replaced by a mass of Perforal number, and than 21 replaced by a mass of Perforal number of the pelvis ceptal of the pelvis ceptal of the pelvis ceptal of the pelvis ceptal of the cartilaginous hardness, tion and the size of half-a-crown which filled the pelvis ceptal of to that of a crown piece. In front front ceps un-but, owing to the cancer and spasmo-forces under the cancer and spasmo-forces under the pelvis ceptal of the cancer and spasmo-forces applied, but of the pelvis ceptal of the cancer and spasmo-forces and spasmo-fo	Further history.	chit.	On autopsy a laceration of the right side of cervix uteri was found not involving peritoneum. Cervix uteri on section seen to be converted into a cartila-
Augus and number of indicating cancer. Angus An	Immediate result to mother.	Died 5 days afterwards	Died in less than half an hour after delivery
Angus	Result to child.	1	De- com- posing
Authority and number of pregate of pregates. Angus Angus Angus Macdonald, primithan 21 Edinburgh para months Nol. xiii, p. 767, 1868 Dorrington, Provincial Medical and Surgical Dournal, 1843, vol. vii, p. 6	Details of labour.	After 20 hours labour the os was dilated from the size of half-a-crown to that of a crown piece. Incisions were made and turning attempted, but, owing to the obstruction formed by the cancer and spasmodic condition of uterus, without success. Then forceps applied, but could not be got to lock. Delivery then effected, with much difficulty, with cephalotribe. No considerable	rhage, nor appreciable injury to passages Pains vigorous and natural. After about 12 hours labour the os had dilated as much as it was thought it would do, and head was then perforated
Authority and number of pregate of pregates. Angus Angus Angus Macdonald, primithan 21 Edinburgh para months Nol. xiii, p. 767, 1868 Dorrington, Provincial Medical and Surgical Dournal, 1843, vol. vii, p. 6	Mode of, delivery.	Incisions. Perforation and cephalotripsy (turning and forceps unsuccessfully tried)	
Authority and number of pregate of pregates. Angus Angus Angus Macdonald, primithan 21 Edinburgh para months Nol. xiii, p. 767, 1868 Dorrington, Provincial Medical and Surgical Dournal, 1843, vol. vii, p. 6		The whole cervix uteri replaced by a mass of cartilaginous hardness, which filled the pelvis in front	A difficult previous labour, owing to incipient disease of os uteri 21 months previously. Pain, fætid discharge, and occasional hæmorrhages since; os uteri
Authority and number reference. Angus Angus Macdonald, primi- Edinburgh para Med. Journ., vol. xiii, p. 767, 1868 Dorrington, 35 Provincial Medical and preg. Surgical Journal, 1843, vol. vii, p. 6	Duration of discase.	More than 21 months	About 13 months before deli- very
	Age and number of preg- nancies.	34 primi- para	35 8th preg. nancy
	Authority and reference.	Angus Macdonald, Edinburgh Med. Journ., vol. xiii, p. 767, 1868	Dorrington, Provincial Medical and Surgical Journal, 1843, vol.
		92	93

1		
acction seen to be son-	Autopsy showed much wasting. Peritonitis, Epithelial cancer of cervix, involving nearly the whole thickness of uterus, but not peritoneum or other adjacent parts. The peritonitis was believed to have begun at the commencement of labour	Died; date Autopsy showed a lacenot stated ration, extending up to peritoneum. No peritonitis.
	Died the next day	Died; date
	De- com- posing	
would do, and head	then introduced through the os to remove placenta After 2 days pains the os was large enough to admit the points of 2 fingers. After 3½ days labour the os was as big as a crown piece, and the breech presenting; the uterus tympanitic. A foot was brought down, and in the subsequent traction the trunk was pulled from the head. The head was delivered by perforation and crotchet. To remove the placenta the whole hand had to be introduced into the uterus	In the course of the labour spains went off. Douching; introduction of skible catheter; ergot; plugging used without effect. Perforation then resorted to, os being 13 inches wide. Incisions then had to be made and the cranioclast applied
	Prema- ture at 7 months. Turning. Perfora- tion	Cranio- tomy. Incisions into os
Security a programme of the second	rest so scirrhous as to dilatation. Much cachexia and cedema Fetid discharge and pain 13 months; profuse hæmorrhages 4 months. Upper 1½ inch of posterior vaginal wall infiltrated and fissured; posterior lip of os not to be felt; a funnelshaped crater with rigid walls, at left of which was the canal of cervix; anterior lip of os thick, hard, wide, infiltrated; anterior wall of vagina not involved. The part easily broken down, and bleeding on examination	Copious losses of blood Cranio-during pregnancy. Extonmy. tensive carcinoma of Incisions portio vaginalis and into os vaginal cul de sac
		years
	38 3rd preg- nancy	7th preg- nancy
-	Dietrich, Diss. Der. Krebs. des Geb. als Comp. der Geb. Bres- lau, 1868, p, 11	Valenta, Archiv. für Gynæcol., Bd. x, p. 405, 1876
	76	95

at hard band donounced with				/
Authority and number of pregades. Depaul, 9th 2 Constant hamorrhage, Pregarchive by pregares wasting. The os uterinancy pregactions, the left half of reached the posterior lip being 10½—11 the only part thus afmorths. Fected. Uterus amonth Delivery before delivery, reaching astrium wastrium, rears and ulcerated. The symptoms of malignant disease of uterns had commenced 2 years before, and the pain and discharge became aggravated when conception to took place.	Further history.	showed part of ut an innasses, who periton No periton tous tis os.	On autopsy the neck of the uterus extensively lacerated, presented the appearance of an irregular dark coloured, disorganised mass.	rior lip of uterus.
Authority and number of pregades. Depaul, 9th 2 Constant hamorrhage, Pregarchive by pregares wasting. The os uterinancy pregactions, the left half of reached the posterior lip being 10½—11 the only part thus afmorths. Fected. Uterus amonth Delivery before delivery, reaching astrium wastrium, rears and ulcerated. The symptoms of malignant disease of uterns had commenced 2 years before, and the pain and discharge became aggravated when conception to took place.	Immediate result to mother.	Died on the 8th day after delivery	Died the next day	
Authority and number of pregades. Depaul, 9th 2 Constant hamorrhage, Pregarchive by pregares wasting. The os uterinancy pregactions, the left half of reached the posterior lip being 10½—11 the only part thus afmorths. Fected. Uterus amonth Delivery before delivery, reaching astrium wastrium, rears and ulcerated. The symptoms of malignant disease of uterns had commenced 2 years before, and the pain and discharge became aggravated when conception to took place.	Result to child.	Putrid	1.	
Authority and number of reference. Of preg-disease. Depaul, 9th 2 Schmitt, nancy years wasting. The os uteri nancy lections, the left half of reached the posterior lip being 10½—11 the only part thus affected. Uterus a month Delivery before delivery, reach- by disaring wan inveau de l'epi- ticulation gastrium " Robert Lee, 41 2 Os uteri hard, irregular, Cranio-Clinical years and ulcerated. The symptoms of malignant disease of uterus had commenced 2 years before, and the pain and discharge became aggravated when conception took place	Details of labour,	Expulsive pains irregularly for about a month with foctid discharges copiously. These pains became more violent; the uterus was swollen, and tympanitic on percussion; the os dilated to the size of a 5-france piece; membranes ruptured and right shoulder presented; child extracted by disarticulation. Placenta removed by introduction of the size of the size of the size of the figure and right shoulder presented; child extracted by disarticulation.	24 hours lass was so la that the ion could no sined. After labour, the still undillead was per On the third on the crotch with croduced and extracted.	was urged towards the outlet. It because evi-
Authority and number of pregnancies. Depaul, 9th 2 Christian nancy Schmitt, nancy Nears Nidwifery, 2nd edition 1848, p. 90	Mode of delivery.	Preg- nancy supposed to have reached 10½—11 months. Delivery by disar- ticulation		duced in 7 months.
Authority reference Schmitt Archiv. Tocolog 1876, p. 1876, p. 1848, p.	Chief symptoms and signs indicating cancer.	Constant hamorrhage, wasting. The os uteri hard, thickened, presenting nodular projections, the left half of the posterior lip being the only part thus affected. Uterus a month before delivery, reaching "au niveau de l'epigastrium".	lig air	122
Authority reference Schmitt Archiv. Tocolog 1876, p. 1876, p. 1848, p.	Duration of disease.	years	years	ing of
Authority reference Schmitt Archiv. Tocolog 1876, p. 1876, p. 1848, p.	Age and number of preg- nancies.	9th preg- nancy	4	manney
	Authority and reference.		Robert L Clinical Midwifer 2nd editi 1848, p.	responses vot.
		96		1

l			
Salethy & Tall Land Sale Science was	post-mortem on anterior lip of uterus.	Peritonitis.	
Acres Acres		Died on 4th Peritonitis.	Died on 12th day
I		1	1
hond extracted The	was urged towards the outlet, it became evident that the latter would not allow its exit without tearing and probably much hæmorrhage. The head was therefore perforated, and then the child was quickly expelled. Scarcely any blood was lost	Supra	Dilatation of os with Barnes's bags, turning, perforation at occiput and cephalotripsy. Though excessively rigid, the margin of the os apparently escaped laceration. Delivery tedious and difficult
-	invol- duced in to of 7 months. Iching Cranio- The tomy parts t the s in- e ex- enera- d	Cephalo- tripsy at term	Dilata- tion of os and cephalo- tripsy
A Carcinomacon secon	down to labium, invol- duced in ving upper part of 7 months. nymphæ, and reaching Cranioto most projecting parts ulcerated, and at the time labour was induced, the whole external parts of generation were involved	21 Cancer of rectum onths	Extensive epithelioma of Dilatat Dilatation of os with cervix and cephalo-tripsy tripsy trigid, the margin of the os apparently escaped laceration. Delivery tedious and difficult
From	begin- ing of preg- nancy	21 months	1
38	nancy	30 8th preg- nancy	T
98 Ashwells	Reports, vol. ii, p. 247	Herman, supra	Godson, Obstetrical Transac- tions, vol. xix, p. 40
1 98		66	100

K.—CASES DELIVERED BY CREAREAN SECTION.

Further history.	Successful "Six weeks after operation the disease had shrunk somewhat, the discharge was not very abundant, she had been free from the ordinary cancer pains, and her general health was well supported. A moderate menstrual bleeding had lately occurred." Further progress not recorded.	"Formore than 6 months after the operation the disease, which was advancing rapidly, underwent considerable improvement, the hæmorrhage and pain ceasing, and the local affection dwindling to an almost inappreciable degree.	Founding strength management (1972)
Immediate result to mother.	Successful	Successful	
Result to child.	Living	Living. A small and feeble child	fingers are
Details of labour.	Labour pains came on Living at or near term, the effect of which was to press the cancerous mass down into the cavity of the pelvis, but to cause no dilatation of os uteri. Cæsarean section therefore performed	Operation performed be- Living. fore the accession of A small and labour feeble child	dillace to admit trager. Cassarean section was
Mode of delivery.	Cæsa-rean section. At or near term	Cæsa- rean section. Atterm	and 3
Chief symptoms and signs indicating cancer.	Severe pain (sometimes "agonising distress"); abundant sanio-purulent discharge; occasional hæmorrhages. The whole lower segment of uterus converted into a mass of malignant disease, nearly filling the upper part of pelvis, without even a margin of normal tissue. The disease was deeply lobed and fissured, but the os uteri could not be made out, nor the presenting	Epithelioma of cervix. Offensive discharge; repeated losses of blood. Cervix spongy and fissured, bleeding on the slightest touch; os patulous, crescentic, with concavity forwards; margin lobulated	discharge, at times of correstor, Tissue of cervity
Duration of disease.	Not longer than preg- nancy	months before de- livery	
Age and number of preg- nancies.	28 6th preg- nancy	4th preg- nancy	-
Authority and number of reference. of preg-disease.	Oldham, Guy's Hosp. Reports, vol. vii, p. 426	102 Greenhalgh, Obst. Trns., vol. ix, p. 241, and British Med. Journal, vol. ii, 1867, p. 491	mer ide
No.	101	102	

1																													
and the local affection	SECURE OF SECURE	"looks well, and is	gaining strength rapid- ly." Local condition	much the same. Ter-	mination not recorded.		Some peritonitis fol-	was convalescent on the	14th day. Subsequent	course not recorded.	The second secon				nook and lower next of	body of uterus involved	in epithelial cancer.	Cul	but no lymph. No	secondary deposits.	Autopsy showed an early		Ulcerated cancerous	involv	toneum of Douglas's	pouch.			
1	STREET, SQUARE, SQUARE	The second					Successful Some							Died 60	hours after	the opera-	tion		The same of		Died 38	hours after-	wards						
DATE PARTY	1	at-	tempts	breathe			Living							Limina	Similar						De-	com-	posing						
Carly of Golf Asset	CHARLES AND RESIDENCE AND REPORTED	dilated to admit finger,	Cæsarean section was tempts				Labour came on at about Living	days, labour, no dilata-	tion had taken place.	Cæsarean section there-	fore performed			I ohom maine donting	for 5 hours without	having any effect upon	the os uteri				Pyrexia, pain, uterine	contraction, with ab-	sence of signs of fætal posing	life, led to the perform-	the	tanded than was in-	naman		
AUG CONTRACTOR	A SERVICE AND ADDRESS OF	and 7	mos.:	rean	section		Cæsa-	section.	At or	about	term			Compa	resa-	section					Cæsa-	rean	section.	At	about	Sth	попош		
margin lobulated	THE RESERVE THE PERSON	domen, with watery	Tissu	placed by irregular	nodulated infiltration of cartilaginous hardness;	ulcerated posteriorly		A hard, tuberculated,	superficially ulcerated	mass, about 2 inches in	diameter, projecting into	could be got through	this unyielding mass,	and presenting part felt	_	pain: debility. A large		of the cervix, which	nearly filled up the	vagina, and from which	Constant hæmorrhage;	offensive discharge;	pain. Edges	G.3		ring of densely hard	at least an inch in depth	everywhere .	
							2 years	de-	livery					-	monthe	before	de-	livery			About	5	months	before	de-	livery			
-		preg-					38	preg-	nancy							Dieg-	nancy				36	9th	preg-	nancy					
NAME AND ADDRESS OF	27 1910	vol. viii,					104 Edmunds,	1861, vol. i.	p. 4					11111	105 Greennaign,	Medical	Journal,	1867, vol. ii,	p. 491		Galabin,	0	Trans.,	vol. xviii,	p. 286				
1	1	1					104							100	COL						106								

Further history.	Autopsy showed no trace of inflammation. A tumour the size of two adult fists, springing from lower part of sacrum, blocking up pelvic outlet, and reaching to within half an inch of symphysis. No other visceral disease.	Autopsy showed commencing peritonitis; dilatation of one ureter. Posterior three-quarters of vagina ragged, sloughy, infiltrated with cancer. The greater part of posterior lip of os infiltrated with cancerous tissue.	Acute gangrene of the cancerous mass.	hand destroy asserting to the transfer of the
Immediate result to mother.	Death on the 6th day apparently from ex- haustion from vomit- ing	Died 41 hours after operation	Death	
Result to child.	Living	Living	Living	
Details of labour.	Operation performed be- Living fore the accession of labour	Labour pains came on at Living or near term. An attempt was made to apply forceps, but even one blade could not be made to pass. Cæsarean section than performed		Action Panns had hasten pean. To hours Cream.
Mode of delivery.	Cæsa- rean section. At a little beyond 8th month	Cæsa- rean section. At or near term	Cæsa- rean section. At be- ginning of 10th	Ac best
Chief symptoms and signs indicating cancer.	A cancerous tumour of the rectum, which had reached such a size that in no part of the pelvis could more than the index finger be passed. Os uteri could not be reached	Hamorrhages and pelvic pain. Vagina greatly contracted by a dense indurated deposit, so that it was difficult to pass one finger up to the os uteri, the posterior lip of which was also involved, though to a less extent. The surface was irregular and ragged, and the discharge offensive	An enormous cancer of pelvic cavity	ting a volva cedematona i vagina unioven, nice- rated, with masses of
Duration of disease.	1	6 months before de- livery	1	
THE RESERVE THE PARTY OF THE PA	29 1st preg- nancy	34 7th labour	1	/ same
Authority and number reference. of preg.	107 Greenhalgh, British Medical Journal, 1867, vol. ii, p. 491	108 Hall Davis, Lancet, vol. ii, 1865, p. 699	Zweffel, Archiv für Gynæcol., Bd. x, p. 405, 1876	Same des
No.	107	108	109	1
The second second second				

A Countier Same anabley	neal cavity; uterine sutures found to have become loosened and untied. Cervical portion of uterus and the whole upper part of vagina converted into a greyish-white, hard, in parts cheesy, mass, with a gangrenous smell. Cause of death believed to be the intra-peritoneal hæmorrhage.	on autopsy uterine wound found gaping, every stitch having been torn away. A small quantity of grumous purulent fluid in peritoneal cavity. Much vomiting for 12 hours hefore death.	Dead Died 5 days From peritonitis.
COURT DE		Died 24 hours after operation	Died 5 days after
Sinam		Living	Dead
PRINCIPLE ASSESSMENT STREET,	about 15 hours Casarean section was performed. Uterine wound closed with catgut sutures	Feverishness, followed Living shortly by labour pains, set in the day before operation, patient being about 8 months pregnant. Cæsarean section. Uterine wound closed by carbolised silk sutures	After 90 hours labour
The same	At beginning of 9th month	Caesa- rean section. At be- ginning of 9th month	Cæsa- rean section
Tang v monents, year	ing; vulva ædematous; vagina uneven, ulcerated, with masses of new growth, discharging blood and fætid pus. The finger could not be introduced until with labour pains some softening took place, and then one finger could be got up to the os. The posteriorand right vaginal walls principally affected	Rectum surrounded by a malignant deposit, and recto-vaginal septum consolidated into a dense and unyielding mass, nearly filling the vagina	Ulcerated cancer of os and cervix
About		About 2 years	1
33	nancy	11th preg- nancy	1
Schaefer,	Sectio Cæsaren bei carcinoma, &c., Breslau, 1976, p. 19	Braxton Hicks, Meeting of Obstet. Soc. London, May 1st, 1878 (Med. Journals)	Routh, quoted from Cohnstein (Case 75)
11		Ξ	112

L.—CASES WHICH ENDED IN RUPTURE OF THE UTERUS.

No. Authority and numbers of perget, directed, directed, discussion of perget, directed, directed, discussion gausser. 113 Hecker, 45 — Tolerably severe haemor- Died un- After 36 hours' labour — Dead Autopsy showed rupture frige deliving pregative for a flow and in front of uterus. 114 Scholz, 3rd — Died un- Died from exhaustion attention of particular discussion of the contrary, thin uterus size of a guiden. Died from exhaustion attention of particular discussion of the performancement of labour after on the contrary, thin uterus size of a guiden. Died from exhaustion attention and intact contrary, thin uterus size of a guiden. Died from exhaustion of particular discussion of the performancement of labour after death by turning after death by turning after death by cit. p.48 and intact contrary. 115 H. Davies, — Cancer of the variation of discussion of d					
Authority and mmbor of preg. Hecker, 45 Mode of preg. Mode of preg. Hecker, 45 Mode delivery. Mode indicating cancer. Monatssehr. 11th A pregadition of posterior lip of plete rup on the contrary, thin uterus size of a guiden. Died and intact commencement of labout 48 hours after commencement of labout 48 hours after commencement of labout 48 hours after commencement of labout delivery. Scholz, 3rd — — Cancer Bupture Labour at full period; — Cancer of the variety of uterus uterus ruptured hours after child the child the child uterus of uterus after death arter of commencement of labout 48 hours after commencement of labout, in collapse. Child extracted by turning after death Mupture Labour at full period; — Cancer of the variety of uterus uterus ruptured Aborge. Rupture Labour at full period; — Cancer of the variety of uterus uterus ruptured Aborge. Rupture Labour at full period; — Cancer of uterus uterus ruptured Aborge. Rupture Labour at full period; — Cancer of the variety of uterus uterus ruptured Aborge. Rupture Labour at full period; — Cancer of uterus uterus ruptured Aborge. Rupture Labour at full period; — Cancer of the variety of uterus uterus ruptured Aborge. Rupture Labour at full period; — Cancer of uterus uterus ruptured Aborge. Rupture Labour at full period; — Cancer of uterus uterus ruptured Aborge.	Further history.	Autopsy showed rupture of uterus, not involving the peritoneal covering. About 2 pounds of blood extravasated underneath peritoneum, reaching from uterovesical cellular tissue to right kidney. A firm mass, about 2 cm. thick in posterior lip of os. Shown by microscope to have the characters	of "medullary sar- coma," Secondary can- cerous nodules in pleuræ. Autopsy showed uterus torn below, and as if perforated by ulceration. Child outside uterine cavity, among the in- testines. Uterine walls presented a scirrhous	hardness as big as the palm of the hand. Death speedily followed delivery.	At the autopsy a good-
Authority and mmbor of preg. Hecker, 45 Mode of preg. Mode of preg. Hecker, 45 Mode delivery. Mode indicating cancer. Monatssehr. 11th A pregadition of posterior lip of plete rup on the contrary, thin uterus size of a guiden. Died and intact commencement of labout 48 hours after commencement of labout 48 hours after commencement of labout 48 hours after commencement of labout delivery. Scholz, 3rd — — Cancer Bupture Labour at full period; — Cancer of the variety of uterus uterus ruptured hours after child the child the child uterus of uterus after death arter of commencement of labout 48 hours after commencement of labout, in collapse. Child extracted by turning after death Mupture Labour at full period; — Cancer of the variety of uterus uterus ruptured Aborge. Rupture Labour at full period; — Cancer of the variety of uterus uterus ruptured Aborge. Rupture Labour at full period; — Cancer of uterus uterus ruptured Aborge. Rupture Labour at full period; — Cancer of the variety of uterus uterus ruptured Aborge. Rupture Labour at full period; — Cancer of uterus uterus ruptured Aborge. Rupture Labour at full period; — Cancer of the variety of uterus uterus ruptured Aborge. Rupture Labour at full period; — Cancer of uterus uterus ruptured Aborge. Rupture Labour at full period; — Cancer of uterus uterus ruptured Aborge.	Immediate result to mother.	Dead	Death	Death	Death from
Authority and number of pregate of pregates. Hecker, A5 — Polerably severe hamor of pregative fix Geb, pregative pregative of posterior lip o	Result to child.	1	1	1	1
Authority and number of pregate of pregates. Hecker, A5 — Polerably severe hamor of pregative fix Geb, pregative pregative of posterior lip o	Details of labour.	After 36 hours' labour the waters broke, and on examination atumour found in front of uterus. (Blood.) Os uteri the size of a gulden. Died about 48 hours after commencement of labour, in collapse. Child extracted by turning after death	Died from exhaustion during labour, which, in spite of strong uterine contractions, had been ineffective in expelling the child	Labour at full period; uterus ruptured	ominal par
Authority and number of pregnancies, disease, nancies, nancies, disease, vol. xxxi, nancy p. 296 Scholz, 3rd — Greeb, pregnancy nancy pregnatuoted by pregnancy chantreuil, nancy nancy pregnator, pregnanced by pregnancy chantreuil, nancy pregnanced by cit., p. 48 H. Davies, ————————————————————————————————————	Mode of delivery.	Died undelivered. Incomplete rupture of uterus	Died undelivered. Rupture	Rupture of uterus	At 8th
Authority and number of pregnancies. Hecker, 45 Monatsschr. 11th für Geb., pregvol. xxxi, nancy p. 296 p. 296 quoted by pregchantreuil, nancy op. cit., p. 48 H. Davies, 41 H. Davies, 41 H. Davies, 41	Chief symptoms and signs indicating cancer.	Tolerably severe hæmor- rhage during pregnancy. A peculiar nodular con- dition of posterior lip of os uteri, the anterior lip on the contrary, thin and intact	1	Cancer	the vaginal
Authority and number of pregnancies. Hecker, 45 Monatsschr. 11th für Geb., pregvol. xxxi, nancy p. 296 p. 296 quoted by pregchantreuil, nancy op. cit., p. 48 H. Davies, 41 H. Davies, 41 H. Davies, 41	Duration of disease.	1	1	1	1
Authority and reference. Hecker, Monatsschr. für Geb., vol. xxxi, p. 296 p. 296 p. 296 quoted by Chantreuil, op. cit., p. 48 quoted by Lee, op. cit.		45 11th preg- nancy	3rd preg- nancy	1	17
	Authority and reference.			H. Davies, quoted by	
		113	114	115	=

delivery.	in nosterior wall of	The whole orifice and neck of the uterus was destroyed by cancerous ulceration, and the anterior part of the cervix was lacerated.		Rent in posterior wall of	fætus protruded. Body of uterus healthy; disease confined to cervix. Vagina healthy.
-	The second second		Died an hour and a half afterwards.	Fatal	
The second		1	Dead	Dead	
stores ruptured	feato after the runture.	had escaped into the abdominal cavity The os uteri did not dilate sufficiently to allow the fœtus to pass, and it was extracted by the vectis. Symptoms of ruptured uterus soon followed	the inch pre- ator into into creat into creat into into was	seized, and child was drawn back and delivered per vias naturales. Placenta followed without hæmorrhage Fœtus presented with breech Corvix vielded	somewhat to pains, but anterior wall felt like a mass of hardened mortar. After about 12 hours of labour pains, sudden collapse and death
of storeus	A HERIOLIS	rupture of uterus. At 7th month. Vectis	gid, Trans- no- verse pre- fis- sentation. Rupture of uterus	Patient	lowed to go her full time; pains came on and uterus ruptured
Chancear	cancerons infiltration of	Malignant disease of os	Cervix indurated, rigid, Trans- infiltrated by carcino- matous product; fis- sentation. Rupture of uterus	Frequent hæmorrhages	Pain less than usual in carcinoma uteri. Malig- nant disease (at 7th month of pregnancy) had already destroyed a considerable portion of both lips of os uteri, leaving a hole big enough to admit two fingers. It was unusually hard and rigid
1		1	1	74	
1	-MOME	1	43 11th preg- nancy		preg- nancy
- 100 Marie 100	In Cabiret	p. 27 117 Robert Lee, Clin. Mid- wifery, 2nd ed., p. 91	118 Chantreuil, op. cit., p. 89		Journal of Medicine, 1851, p. 204
No.		=	=	119	

Further history.	Uterus adherent to lower part of abdominal walls, mostly to left. Fundus in epigastrium. Reddish fluid in abdomen. Above and to right, uterus presented a fissure size of a 30-sous piece, of which the circumference was gangrenous. Inferiorly, a part of the body and the whole of the neck presented an enormous scirrhous tumour, which obliterated the orifice. Uterine cavity contained a child of ordinary size, macerated and shrivelled, but not putering a pur of putering the cavity contained a child of ordinary size, macerated and shrivelled, but not putering a part of the not putering a child of ordinary size, macerated and shrivelled, but not putering a child of ordinary size, macerated and shrivelled, but not putering a child of ordinary size, macerated and shrivelled, but not putering a child of ordinary size, macerated and shrivelled.	Autopsy refused.	
Immediate result to mother.	Death	Death 12 hours after supposed rupture. Emphysema of abdo- minal walls before death	
Result to child:	Dead	Dead	
Details of labour.	Uterine pains came on at 6th month; watery discharge at first clear, then brownish, as if mixed with meconium. Some days after a cracking sound was heard in the abdomen; the discharge became purulent and fœtid; there was hectic fever, and patient died about 9 months after beginning of pregnancy. (Dates not clearly given)	Regular, continuous, and strong pains produced no dilatation of os. Tumour almost entirely filled up the vagina. After 24 hours labour os dilated a little, and tumour came lower down. After 2 days' labour, without further	side of abdomen was
Mode of delivery.	Rupture of uterus	Labour came on at 6½ months. Rupture of uterus	
Chief symptoms and signs indicating cancer.	Sharp and constant pain; vomiting, colics, and metrorrhagia. Border of os extremely hard; a tumour on left side	A tumour adherent to the whole extent of the posterior vaginal wall, the prolongations of which merged into the os uteri, which they closed; its surface irregular, as if fringed, and foxid fragments could be broken off; it	Contract of the said of the said
Duration of disease.	No symp- toms before preg- nancy	A long time	
Age and number of preg- nancies.		49 Multi- para	
Authority and number reference. of preg-	Martin le Jeune, Mémoires de Méde- cine, Paris, 1835, p. 280	Martin le Jeune, op. cit., p. 282	
No.	120	121	

1	on the second	de promise of the deliting office.
1		Died almost Autopsy showed a rupmediately ture of uterus on its left side, 6 inches long. The child, placenta, and much blood were in the peritoneal cavity when laparotomy was performed. No trace of the cervix uteri or os externum could be found; it was converted into the cauliflower-like mass mentioned. Posterior wall of bladder, ureters, and rectum were cancerous. Uterus seemed thinner at the seat of the rupture than elsewhere.
before death		Died. Died almost mmediately
		Dead Dead
down, After 2 days	side of abdomen was found a hard projecting tumour, which was considered to be the back or feet of the child, having passed through a rent of the uterus, which no longer formed the projecting tumour it had done before	With the 4th pain the patient screamed, complained of pain in left uterine region, sighed, shivered, became slightly convulsed. The child could then be felt under the abdominal walls. D'Outrepont saw the patient within 1½ hour after this; she was then dead, and he opened the abdominal cavity and removed the child
The second second		Died undelivered. Rupture of uterus At term
regular, as if fringed,	THE RESIDENCE OF THE PARTY OF T	Cancerous infiltration of Died uncervix Cervix Uterine symptoms 4 At term years (since marriage). Soreness of external genitals. Vagina hard, thickened, uneven, knotty, contracted. A cauliflower-like growth, resembling condylomata, filling the pelvic inlet. Deep fissures were felt between the parts of this growth, but neither uterus nor os uteri could be felt. Examination followed by hæmorrhage. Hæmorrhage of fætid discharge during pregnancy
		34 1st preg-nancy
1		Kiwisch, quoted from Cohnstein (Case 134) D'Outre- pont, Ab- handlungen und Beiträg. Geb.Inhalt, 1822, Erst Theil, p. 276
		123

M.—CASES IN WHICH THE PATIENTS DIED UNDELIVERED.

Further history.	Autopsy showed evidence of peritonitis and metritis. Lower segment of uterus in part indurated; os uteri not dilated and perfectly unyielding.	Autopsy. Os consisted of a firm and tough ring, as hard as cartilage, of a pale bluish white colour; very resistant to the knife. This condition affected the lower fourth of the uterus.	Fætus not decomposed. Autopsy showed traces of peritonitis. Putre- scent condition of in- terior of uterus. Carci- noma invading uterine orifice in all its circum- ference, the thickening being more to right than to left.
12/4	Autopsy slot perito tritis. I of uterus rated; os lated and yielding.	Autops: a firm as har a pale lour; the kn tion at	Fætus not de Autopsy show of peritonitis scent condititerior of uternoma invadir orifice in all iference, the being more than to left.
Immediate result to mother.	Death	I	Dead
Result to child.	Well deve- loped child, decom- posing	1	De- com- posing, mace- rated
Details of labour.	years; Died un-Liq. amnii escaped; next well devela. S delivered day symptoms of peritodes at or near nitis; 4 days afterwards loped dividing any dilatation decomposed into a manually dilate it. She the in-	Irregular pains like those of labour continued with varying severity for 7 months after the expected termination of pregnancy	hæmorrhages; Died un- Pains came on at about charges. Cervix delivered 8th month, and continu- comranc piece, its of woody hard- fice completely stony hardness from not projecting vagina, and as the surrounding frequent hæmorrhages.
Mode of delivery.	Died undelivered at or near full term	Died undelivered at 17th month	Died un-
Chief symptoms and signs indicating cancer.	Hæmorrhages 2 fætid discharg months; cachex uteri surrounde cartilaginous cences. 2 finger be introduced canal 1½ incheclosed above by	Uncer-Os uteri closed and firm; Died un-Irregular pains like those tain a nodular flattened mass delivered of labour continued of cartilaginous density at 17th with varying severity overlapping the os, month for 7 months after the thickened, hardened, expected termination of pregnancy	Pain; feetid dis uteri goi of a 2-f borders ness; or obstruct tumour into the hard as
Duration of disease.	About 2 years since last con- fine- ment (?)	Uncertain	Sym- ptoms began about a fort- night after preg- nancy
Age and number of preg- nancies.	40 12th preg- nancy	28 8th preg- nancy	32 8th preg- nancy
Authority and reference.	124 Hesse (Horn und Nasse's Archiv, 1832), quoted by Hachmann	P. R. Menzies, Glasgow Medical Journal, vol. i, 1853, p. 129	Depaul, Chantreuil, op. cit., p. 43
No.	124	125	126

ı			CANCEROUS	DISEASE	OF THE	GENT	AL CAN	LL.	01
hoing more to change			3 weeks after the attempt at labour the patient died without great pain, but with great prostration. No autopsy.		No disease in other vis-	cera. A large cauliflower excrescence found growing from anterior part	of os uteri		
			1		Death				
			1	111	No	of putre-	faction		
almost continuous con-	cisions were made, which	rendered the application of forceps possible; but the head, which was flaced from decomposition, could not be held. Patient died 10 minutes	Pains came on prema- turely and lasted about half a day, then went off		Tumour was so large		impossible to remove faction the tumour, therefore perforation was per- formed. Many fruitless	child, after which patient was so exhausted that	it became necessary to leave her to repose; soon after she died
I					Perfora-	the tion. and Died un- size delivered			
surficient some showing			The middle of the pelvis Died un filled with a projecting, delivered fleshy, for the most part cartilage - like mass, which gradually merged	into the vaginal wall. The finger could be passed through an opening in this up to the internal os uteri, but not	further. The mass could easily be torn. Severe hæmorrhages A large fleshy tumour at	the extremity of the vagina (resembling and nearly equalling in size	the placenta), growing from the os uteri. The largest excrescence Den- man had ever seen.	Alarming hæmorrhages during pregnancy	
			5 months before death		1			11	
			7th preg- nancy		1				
			Oswald, Siebold's Journal, vol. v, p. 156,	1825	Denman,	Introduc- tion to the Practice of	Midwifery, 6th edition, 1824, p. 235		
			127		128				

Further history.	Os uteri found post- mortem to be partially ulcerated, the principal portion thickened and exceedingly indurated. Died undelivered, apparently from peritonitis. Extensive effusion of	lymph on surface of uterus, but no rupture. Os and cervix were both extensively disorganised from cancer. Autopsy showed acute peritonitis. Cervix uteri involved in its entire extent in deep rugged ulceration, and the surrounding parietes, for fully 1½ inch, were thickened and indurated; on the left side the induration extended as the broad ligament in
Immediate result to mother.	Death	Death
Result to child.	1 1	De- com- posing De- com- posing, evi- dently had been dead many days
Details of labour.	Death had just taken place when Dr. R. got to her. Child not alive, and therefore no effort made to extract it. Os uteri the size of half-acrown Efforts at labour seemed to come on more than once, when and after	A great soft fungoid tu- Died un- Great hæmorrhages and mour growing from the centire circumference of state. Hæmorrhage Os uteri affected in its Died un- os symptom indicating entire circumference, delivered but especially on its at full posterior aspect, with deep rugged ulcers; the walls of the uterus, as far as the finger could reach, thickened and indurated. Lancinating pains, fætid sanious discharge
Mode of delivery.	Died in labour (un-delivered) from exhaustion Un-delivered	from the delivered and the ndurated rhage on its Died unsternce, delivered on its at full term cers; the terus, as er could delive and ncinating nious dis-
Chief symptoms and signs indicating cancer.	Os uteri partially de- stroyed by cancer, the remainder richly stud- ded with scirrhous tu- bercles. Patient worn down to the lowest ebb of life Extensive cancer of the cervix uteri Stroyed by cancer in paper labour (un- delivered) haustion delivered	A great soft fungoid tu- mour growing from the entire circumference of the os uteri and the cervix in an indurated state. Hæmorrhage Os uteri affected in its but especially on its posterior aspect, with deep rugged ulcers; the walls of the uterus, as far as the finger could reach, thickened and indurated. Lancinating pains, fætid sanious dis- charge
Duration of disease.	1 1	Be- tween 7 and 8 months before death
	1 1	37 8th preg- nancy
Authority and number reference. of preg-		Black's ed., p. 498 Nidwifery, 2nd edition, p. 498 Miller, London and Edinburgh Medical Journal, 1844, p. 279
No.	129	131

10			CANODIOCS DISTRICT OF THE
od; on the left side th	Industry or contended on	a cancerous mass. No rupture of uterus. Full layer of fat on abdominal walls.	Autopsy showed vagina ulcerated, but no communication with abdominal cavity or with rectum. Vaginal portion destroyed, but internal os closed; a fectus in utero, judged from its size to be at the beginning of the 6th month.
A Marine Marine		Death	Dead
many	clays	Summar A	
OF THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.		atient be in a state of tonic much contraction. Severe ed hamorrhages occessor curred shortly bedid is fore pains. Predit senting part could aban not be reached	unde-Copious diarrhœa, 5 hectic, no sign of death death
The second second		the pwas so exhaust from har rhage ar charges, it was	doned Died livered, months nant
indurated. Lancinating	pains, footid santous dist	and hips. Cervix converted into a mass of malignant disease, particularly hard and unyielding	Dull sacral pain; watery sometimes sanious fœtidischarge; coitus pain ful, and followed by discharge of dark fœti blood; great loss ostrength. A firm, irregular tumour, size of hen's egg, in vagina growing by a thin pedicle from the vagina portion; characteristicancerous fœtor. Thremonths before death is was cut off with scissors considerable hæmor rhage following. After this the symptoms im proved. A month after turned
		, cai	5 months before death
1		para	31 3rd preg- nancy
A STATE OF THE PARTY OF THE PAR	-	neports, vol. vii, 1851, p. 436	Elias von Siebold, Journal for Geb. &c, Bd. 3 p. 49, 1819
1	1		134

Further history.	Autopsy. The tumour was a large medullary carcinoma; it affected the whole cervix except two fingers breadths of the posterior part of bladder, and the broad ligaments almost to the pelvic wall; not the rectum.	Body much wasted. No disease in uterine walls. Vagina infiltrated with cancerous deposit throughout its whole extent, thickness being in some parts 2 or 3 inches. Bladder showing signs of inflammation and disintegration Ureters dilated. No
Immediate result to mother.	1	Died 20 days after commencement of labour pains
Result to child.	1	ac- Feetal with heart Di- pulsa- gina ted till with day but before r 2 death ac- pain nta- d to
Details of labour.	unde-She was believed to have fully reached, if not exceeded, the normal term, but no pains came on. She sat up in bed to drink and fell back dead	erine action ompanied emorrhage. tation of vartempted onge plugs, ven up after tys trial on ount of the cused. Prese on ascertaine
Mode of delivery.	pe	pa ged
Chief symptoms and signs indicating cancer.	Daily hæmorrhage; ab- dominal and sacral pain; urinary and rectal tenes- mus. Whole anterior vaginal wall and lower part of uterus formed a hard uneven tumour, beginning almost imme- diately behind the sym- physis, and extending on each side close to the pelvic wall. The hinder part of cervix soft and healthy to the touch. Much tenderness and slight hæmorrhage on examination	year Continuous vaginal dis- Died charge, offensive, some- liver times bloody. Pregnancy not suspected till 7th month. A firm lobulated mass almost occluding the vagina; parts of it breaking down under pressure of examining finger
Duration of disease.	At months	A year
	42 13th preg- nancy	34 7th preg- nancy
Authority and number reference. of pregnancies.	Archiv. für Gynæcologie Bd. vii, p. 169	Roulston, Association Medical Journal, 1856, p, 830
No.	135	136

	1	CANODA				The second second second	
tion and districted	but the improvement was of no long duration, and death followed in the 7th week.	Remained recumbent about a week, and on resuming her domestic duties felt stronger and better than she had been previously to operation. Termination not recorded.	Both were treated by "les grands remedes," and by different methods, without effect.		Pains, feetid discharge, and hamorrhage continued; finally, perforation of bladder and rectum, with incontinence of urine and faces.	Recovered In 5 months again became pregnant.	Recovered In 3 months again preg- nant.
	ment; death in 7 weeks	Recovery rapid and satisfactory	Survived a	Survived 2 years	Survived 4 months	Recovered	Recovered
caused, Presenta-	rains came on suddenty; in 24 hours a 4 months fœtus expelled, with fright- ful pain	Abortion induced by injection of water into the uterus, supplemented by galvanism. The process lasted 4 days. Comparatively little hæmorrhage or pain	Abortion In each of these the fœtus at was putrid, and the placenta putrid, and discharged in fragments, which were difficult to discharge.	tinguish from pieces of slough, which for some time came away from the	Abortion Few, but extraordinary between severe pains months	1	1
	scharge; tion affected	Abortion induced at 14th week	Abortion at 3 months	Abortion at 2½ mouths		Abortion between 3rd & 4th month	Again
down under pressure of examining finger	egion, sinal di womb	Scirrhous contraction of Abortion rectum, about 4 inches induced above anus. A hard scirations deposit, about the size of a pigeon's egg, in anterior segment of cervix	1	1	Hæmorrhage gradually in- creasing in quantity and frequency. Pain in hypo- gastric and sacral regions. On examination, scirrhus uteri found	Carcinoma uteri at time of Abortion marriage between 3rd & 4th month	1
		1	1	1	More than 7 mos. pro-bably nearly 3 yrs.	1	1
Spanie Contract	7tin preg- nancy	1	1	1	37 7th preg- nancy	1st preg- nancy	2nd preg- nancy
The Parties	Schmiat s Jahrbücher, vol. xxiii, p. 76, 1839	138 F. W. Mackenzie, Obst. Trans. vol. i, p. 11	Levret, Essai sur l'abus, &c. Art, xiii.	Levret, op. cit.	Sommer, Starkes Ar- chiv. fur Geburts- hülfe, 1791, p. 288	Lever, op. cit. p. 227	ditto
1		138	139	140	#	142	143

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Further history.	Ulceration speedily followed the last abortion. Its progress was rapid, and	In 6 months time again pregnant.	-	Rigors and "signs of sphacelus" followed the abortion. No autopsy.	No autopsy.
Immediate result to mother.	Died in 8 weeks	Recovered	Lingered for some weeks, and then	sank. Died between 4th and 5th days after abortion	Died 3 months afterwards
Details of labour,		Abortion Hæmorrhage accompanyat 4th ing the miscarriage was month very profuse	Abortion Hæmorrhage most alarm- Lingered for at 13th ing; it reduced her powers some weeks, week to so low an ebb, that and then	Severe hæmorrhage ac- companied abortion, and recurred afterwards; there was great pain	
Mode of delivery.	Aborted in a few weeks	Abortion at 4th month	Abortion at 13th week	Spon- taneous abor- tion at end of 3rd month	Abortion at 4th month
Chief symptoms and signs indicating cancer.	1	Cauliflower excrescence		Cutting and burning pain; hæmorrhage, fætid discharge, excoriating the neighbouring parts; emaciation, hectic. Os uteriopen, admitting the finger; hinder part of os as thick as the thumb, hard, rough,	
Duration of disease.	1	1	-1	About 4 months	10 10
Age and number of preg- nancies	3rd preg- nancy	1	1	42 1st preg- nancy	Und.40 More several than 3 previ-months
Authority and reference.	Lever, op.cit.,p.227		(Case 26.) ditto	Laubreis, Siebold's Journal für Geb.,vol. vii, p. 409	Crosse, Midwifery, p. 49
No.	144	145	146	147	148
ALCOHOLD BOOK					THE RESERVE OF THE PARTY OF THE

Total distribution of the state		Final result not stated.	Much relief to symptoms followed abortion.	"A miserable spectacle, for 3 weeks after the abortion the recto-vaginal partition ulcerated through.	Died shortly Hardly any symptoms durafter ing pregnancy.	1	No marked acceleration of the cancerous change.	No marked acceleration of the cancerous change.
n General and	Separate Separate	1	Died 7 months afterwards	Lived for 4 months afterwards	Died shortly after delivery	Died	Recovered	Recovered
AND REAL PROPERTY OF THE PROPERTY OF THE PARTY OF THE PAR		Terribly severe hamor- rhage, from which her death was expected; but	she survived Destruction of part of growth with actual cautery, and dilatation of cervix with laminaria tents	Hæmorrhage alarming; pains violent and long-continued, lasting a long time without expulsion of ovum, which being felt protruding through the stricture of vagina was removed "with a little manipulation".			1	-
den at	3rd month	Abor- tion in 2nd	Abor- tion in- duced at 5 months	Abortion at 5th month	Abor- ted in 5th	4 4	4th month Abor- tion	Abor- tion
Mercella of the alletto all and	3rd month	Abor- tion in 2nd	Cancer with fixation of cervix	Posterior part of vagina in Aborastate of scirrhous ulcertion at ration; ichorous and offensive discharge, alternating month with hæmorrhages; rapid emaciation	Cauliflower excrescence Abor- hanging down from os ted in uteri in vagina 5th	Far advanced cancer of Abor- cervix	Cancerous infiltration of Abor-	Cancer of cervix Abortion
ACT.	3rd month	Abortion in 2nd	with fixation of	f vagina in hous ulce- s and offen- alternating ges; rapid	excrescence own from os gina	cancer of	infiltration of	
ACT.	3rd month	Abortion in 2nd	Cancer with fixation of cervix	preg- years a state of scirrhous ulce- nancy ration; ichorous and offen- sive discharge, alternating with hæmorrhages; rapid emaciation	excrescence own from os gina	cancer of	infiltration of	
ACT.	Hachmann Srd and month	Cohnstein — — Abor- Siebold, cas. cit. (13)	33 5 Cancer with fixation of 9th months cervix preg-	years a state of scirrhous ulceration; ichorous and offensive discharge, alternating with hæmorrhages; rapid emaciation	s, 40 — Cauliflower excrescence multi- hanging down from os uteri in vagina	- Far advanced cancer of cervix	- Cancerous infiltration of cervix	

Chief symptoms and signs of indicating cancer. Hæmorrhages, leucor-rhea. Vaginal portion efforts; deeply fissured, the postion efforts; deeply fissured, the postiregular, easily bleeding, at full terior lip of os formed an irregular, easily bleeding, tumour, about as big as a pigeon's egg. At about the end of pregnancy the cancerous mass was cut away with scissors and sharp spoon, and actual cautery applied to the raw surface; there was little hæmorrhage. Symptoms then ceased. Vaginal portion swollen, tion at puffy, lips of os everted, tion at showing deep red, nodu-5 months he indubitably cancerous. At about 5 months pregnancy the vaginal portion was amputated with knife and scissors, there was moderate hæmorrhage, which was					
Authority and number of reference. Op Preg. Denicke, 30 Denicke, 30	JANANCI.	Further history.	4 months afterwards the disease had returned, and another operation was performed. No further record.	5 months after there was no sign of any return of the disease.	delivery transfer of dearers not years
Authority and number of reference. Benicke, 30 D. 34 D.	ING PRE	Immediate result to mother.	Uninter- rupted re- covery	An eleva- tion of tempera- ture on fol- lowing day; otherwise recovery normal	cence
Authority and number of reference. Benicke, 30 D. 34 D.	DOK	Result to child.	Living		weeks intra-
Authority and number of reference. Benicke, 30 Dr. 34 Dr. 3	FART WAS REMOVE!	Details of labour.	Labour came on 5 days after the operation; it lasted less than 11 hours; hardly any bleeding.	Abortion on day following operation. Placenta tolerably firmly adherent, requiring to be manually removed. Endometritis decidua diffusa	No great parmorrhage
Authority and number of reference. Benicke, 30 D. 34 D.	EROOS	Mode of delivery.	Natural efforts; at full term		of July
Authority and number of pregence. Benicke, 30 — Op. cit., 2nd pregenancy nancy nancy nancy pregenancy p. 34 pregenancy pregenancy p. 345 pregenancy nancy pregenancy nancy pregenancy nancy pregenancy nancy pregenancy pregenancy nancy nancy pregenancy nancy pregenancy nancy pregenancy nancy pregenancy nancy n	WHICH THE CANCE	Chief symptoms and signs indicating cancer.	Hæmorrhages, leucorrhæa. Vaginal portion deeply fissured, the posterior lip of os formedan irregular, easily bleeding, tumour, about as big as a pigeon's egg. At about the end of pregnancy the cancer-	with scissors and sharp spoon, and actual cautery applied to the raw surface; there was little hæmorrhage. Symptoms then ceased. Vaginal portion swollen, puffy, lips of os everted, showing deep red, nodular, cervical mucous membrane. A piece removed showed it to be indubitably cancerous. At about 5 months pregnancy the vaginal portion was amputated with knife and scissors, there was moderate hæmorrhage.	
Authority an reference. Benicke, op. cit., p. 34 p. 34 p. 345	II erei	Duration of disease.	1 1 1 1 1		dell
Authority an reference. Benicke, op. cit., p. 34 p. 34 p. 345	1	Age and number of preg- nancies.	30 2nd preg- nancy	30 2nd preg- nancy	manoy
		Authority and reference.	Benicke, op. cit., p. 34	Benicke, op. cit., p. 345	STATE STATE
			157	158	The same

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The state of the s	delivery. Date of death not recorded.	8 weeks after delivery symptoms returned, and a repetition of the operation was contemplated. No further record.	No further record.
	cence	Uninter- rupted con- valescence	Discharged from charity on 19th day after operation
Present Presents	weeks intra- uterine age)	Living	Dead onitis fo
Parish of the last	No great hæmorrhage weeks either during or after intra- labour age)	Labour lasted 6 hours. Adherent placenta, but no other difficulty	hæmor- Prema- On the 11th day after Dead Dischalar, from natural expelled by the feet; on 1 fissured efforts course of labour normal; on 1 day a grom caffort shall no day a sizures, with albuminuria (no casts) on 4th day on the day not much hæmorrhage; symptoms of peritonitis followed.
To the same	of 7th month); natural efforts	Natural efforts (at term)	Prema- ture natural efforts
with knife and seissors,	condition extending up to the inner os; easily bleeding on examination. Diagnosis of cancer not at all doubtful. At about the end of 7th month of pregnancy the cancer was scooped out. Very little bleeding followed operation.		Vagira a nodula r with springi or lip. of pr reseur; D
	deli- very	Symp-toms began during preg-nancy	2 months before deli- very
	nancy	4th preg- nancy	3rd preg- nancy; convul- sions after former labours
A STATE OF THE PARTY IN	Gyn., 1877, Bd. I, p. 340	Benicke, op. cit., p. 341	Benicke, op. cit., p. 342
100		160	161

Further history.	Recovered Died suddenly 6 weeks after delivery.	Patient left hospital a month after delivery. Four months afterwards the disease had greatly advanced. Pyrexia during 15 days or more after delivery,	Very severe hæmorrhage during pregnancy.	Recovery Two years subsequently uninter-
Immediate result to mother.	Recovered	Recovered	Recovered	Recovery uninter-
Result to child.	Not stated	Living	Dead	Dead
Details of labour.	Severe pain shortly be- fore delivery. Natural labour. No hæmor- rhage	Labour pains came on at Living term. The cervical canal was then about an inch long, the whole circuit of the os surrounded by malignant growth. The cervix was dilated; first with tents, then with Barnes's dilator. When the os would admit 3 fingers, version was performed.	Much traction was required to bring the head through. Considerable hamorrhage from cervix followed delivery 8 days after excision of tumour rupture of membranes. Breech presentation. Normal labour except manual extraction of head	Delivery Labour nonequaly rapid; Dead
Mode of delivery.	Natural efforts (at term)		At 8th month	Delivery
Chief symptoms and signs indicating cancer.	In 5th month of preg. Natural Severe pain sh nancy, amputation of efforts (at fore delivery. vaginal portion; opening of Douglas's pouch; recovery. No hæmorsubsequent to operation.	Constant hamorrhage; Artificial hypogastric and back dilatation pain; an epitheliomatous of cervix growth was removed and verwith galvanic écraseur sion, at when patient was about term 4 weeks pregnant, and the stump about a fortnight subsequently freely cauterized. All symptoms ceased	Large cauliflower excrescence springing from the posterior lip of os, and projecting in the genital fissure. Vaginal portionstrongly dragged	2 333
Duration of disease.	1 -	About 13 months before deli- very	1	
	1	31 11th preg- nancy	29 3rd preg- nancy	200
Authority and number reference. of pregnancies.	Schröder, Archiv. für Gyn., Bd. X, p. 405, 1876	Galabin, Obstetrical Trans- actions, vol. xviii, p. 242	Spaeth, from Cohnstein (Case 105)	Cours D
No.	162	163	164	- Comment

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	Two years subsequently the disease had returned.	EON OR Autopsy showed peritonitis. The whole cervical portion presented anecrotic, spongy, pulpy mass, reaching down to	the insertion of vagina; from its cut surface a creamy juice could be squeezed. Vaginal losses of substance, covered with a diphthe- ritic layer.
The state of the s	Recovery uninter- ruptedly good	HE SURGERY. Died on the 5th day	
	Dead	BY TO DELIV	
except manned extrac-	Labour unusually rapid; neither hæmorrhage nor laceration	-Cases in which the discrete about a day without hamorrhages 7 months. At term. After pains had lasted Living Died on the Autopsy tonitis. The anterior lip of os Removal about a day without before enlarged, forming a of part of progress being made, a large part of the anterior livery about 2 in. thick by ease; rior lip was removed	with the loop of the galvanic cautery. No bleeding from the cut surface. Pains continued frequent and strong; the posterior lip yielded, but not the anterior. Incisions were then made into cervix, and forceps applied. To avoid bruising of the diseased anterior lip, incisions were made into the perineum
	Delivery prema- ture by 5 or 6 weeks	E DISEASED PALY EXPELLED months. At term. p of os Removal ning a of part of tumour, the dis- nick by ease;	forceps ;
contral fusiare. Vagioni	Hæmorrhage, alternating with fœtid watery discharge, shooting pains in iliac and sacral region. When about 5 months pregnant a large cauliflower growth was removed, with arrest of symptoms	SES IN WHICH THE DISEASED PASPONTANEOUSLY EXPELLED About Hæmorrhages 7 months. At term. 7 mos. The anterior lip of os Removal before enlarged, forming a of part of de-kidney-shaped tumour, the dislibery about 2 in. thick by ease;	3 in. long; its length incisions lying transversely. Posterior lip thin and extensible
	10 1 months	SES IN About 7 mos. before de- livery	
- minute	35 9th preg- nancy	P.—CA 37 3rd preg- nancy	
Trom	Savory, Obst. Trans., vol. xvii, p. 82	Dieterich, op. cit., p. 18	
	166	167	
100			

Further history.	Patient remained well for some months; then attacks of hæmorrhage recurred. An examination was made 8 months after delivery and the disease found to have recurred in the posterior lip of os. She died 16 months after delivery.	7 days after labour the degeneration of posterior lip was found to have increased. 2 months afterwards the growth from posterior lip was as big as that removed at time of confinement, and symptoms of cancer of stomach.	certained. Autopsy showed no evidence of either hæmorthage or peritonitis. Death apparently from shock.	Convalenced On examination areas
Immediate result to mother.	Good	Recovered. Nothing unusual about con- valescence	Died in 24 hours	Convalenced
Result to child.	Living	De- com- posing. Well- devel- oped	Not	Do-
Details of labour.	and right Excision The posterior lip of os occupied of tumour was soft and thin; but after 2 days' labour form, and scissors pains the os would only admit two fingers. Immediately after the opering pregration (in which not a teaspoonful of blood was lost) the os expanded uniformly, and the child was born in a		Much hæmorrhage in early part of labour. Dilatation was effected solely at expense of anterior part. After 12 hours pains the whole	Natural Labour lasted 46 hours.
Mode of delivery.	Excision of tumour with scissors	Removal of the growth. Turning	Natural efforts. Tumour expelled. (Slightly prema-	Natural
Chief symptoms and signs indicating cancer.	"Anterior lip and right Excision side of os uteri occupied of tumour by a hard, rugged tu- with mour of oval form, and scissors of the size of a large green walnut." "Gushes of blood" during preg-nancy	9 weeks Hæmorrhage, severe before pain. A soft, caulide- flower-like growth livery springing from the anterior lip of os uteriand filling the vagina. Posterior lip rough, uneven, knotty	Frequent hæmorrhages. Posterior lip of os uteri prolonged into a tu- mour, which bled at the slightest touch evi- dently a mass of cancer	Hemorrhages daring
Duration of disease.	Anterior to 5th month of pregnancy	9 weeks before de- livery	From begin- ning of preg- nancy	Sell Book
Age and number of preg- nancies.	38 Multi- para	30 7th preg- nancy	33 3rd preg- nancy	1
Authority and number of preg- of preg- disease.	Arnott, Medico- Chirurgical Trans., vol. xxxi, p. 37	Michaelis, Neue Zeits. für Geb., Bd. iv, p. 176, 1836	Meigs, Obstetrics, 4th ed., § 730	Lover.
No.	168	169	170	1221

methy from	on examination after delivery the chasm left was so large that the hand might readily have passed into the uterus. Patient lived for six months after, and then died from vaginal hæmorrhage.			months	
apparently.	minatic the clarge large ight rea into the lived after, from		1	ds.	1
Death	On examinat delivery the was so large hand might repassed into the Patient live months after died from hæmorrhage.	TION.		Death afterwar	
The state of the last	Convalesced On examination after very quickly delivery the chasm left was so large that the hand might readily have passed into the uterus Patient lived for six months after, and then died from vaginal hæmorrhage.	LASSIFICA	1	8 hours after delivery copious hæmorrhage	1
- mon	De- com- posing	FOR C	Dead, as- phyxia.	Dead	1
inis undationt	the child was expensed. Labour lasted 48 hours. A very large piece of the diseased mass was torn away, and forced before the head of the child.	COMPLETE	Vilatation of os uteri Dead, went on without delay asand without consider-phyxia. able bleeding	1	"The os dilated readily to admit of the passage of the child, and the labour was but of a few hours' duration."
notoly at	the child Labour las A very last the disea torn awa before the	TOO IN	Dilatation of went on with and without able bleeding		"The os dilated r to admit of the pi of the child, an labour was but of hours' duration."
-pollodso	Natural	TION IS	Rootling. Head delivered with forceps	1	1
Structure whiteh bleed at the	Hæmorrhages during pregnancy, no pain. The whole os uteri affected with malignant diseases of a fungoid character; anterior part of cervix indurated	CASES AS TO WHICH INFORMATION IS TOO INCOMPLETE FOR CLASSIFICATION.	Longer Medullary carcinoma had than spread over the whole Head went on without delay asthered range and without consider phyxia able bleeding forceps than than than the than	Pain in pelvic region; vesical and rectal tenesmus and pain; fœtid vaginal disharge; wasting. The whole os uterichanged into hard and partly ulcerated nodules	Extensive cancerous discase of the womb
- Annual	. 1	S AS T	Longer than the preg-nancy, less than 2 years		1
/ Kouuu	1	CASE	30 multi- para	39 4th preg- nancy	1
C THO	Lever, op. cit., p. 224		Lumpe, Schmidt's Jahrbücher, vol. cix, p. 310, 1861	Burdach, Schmidt's Jahrbücher vol. xvii, p. 58	West, Diseases of Women, 2nd edition, p. 407
The second second	171		172	173	174

No. Authority and auments and alone of press. In a comparatively a comparatively and auments decrease. 175 West, — — — — "The comparatively result to make the comparatively result to p. 407. 176 Caseaux, 45 — Posterior vaginal wall spine of the unyielding concerns the comparative of the child." The child." The comparatively results on multi-comparative or multi-						
Authority and number of pregate disease. West, Op. cit., P. 407 West, Op. cit., P. 407 West, Op. cit., P. 407 West, Op. cit., Op. ci	Further history.		1	1		corded.
Authority and number of pregate disease. West, Op. cit., P. 407 West, Op. cit., P. 407 West, Op. cit., P. 407 West, Op. cit., Op. ci	Immediate result to mother.	1	1-	Died after 8 days.	Died 2 days afterwards.	
Authority and Auge and Duration Chief symptoms and signs reference. West, O. O. Dreg. Dr. 407 West, O. O. Dreg. Dr. 407 Caseaux, 45 Caseaux, 45 Chap. vii, is surface was irregular from in an inch of the vild. Schelle, Chap. vii, o. Chancer of the viginal from the posteror vaginal septum Cohnistein (Case 30) Dr. 407 Caseaux, 45 Cac	Result to child.	1	1	Living	Living	Sentaine Sentiale
Authority and number of indicating cancer. West, Op. cit., P. 45 Caseaux, Treatise on multi- Part 5, Chap. vii, \$\frac{5}{5}\$ 13 Schelle, Cohnstein Cohnste	Details of labour.	small part of the cervix which was not implicated in the disease stretched beyond what might have been supposed possible, and in spite of the unyielding condition of the bulk of the cervix thus made room for the passage of	Dilatation effected very slowly, though completely, at the expense of the narrow lip. The tumour rendered the second stage of labour more tedious than usual. The child's head pushed it backwards and passed			then three spontandoms of
Authority and anumber of pregading of pregading of pregading of pregading of pregading of pregading op. cit., p. 407 Caseaux, 45 — Posterior occupied gated tumo part 5, chap. vii, g. 13 from (Case 30) Schelle, 40 — Cancer of from the rectory of	Mode of delivery.	1 - 1 - 2	Natural	ľ	1	ouis, vor-
Age and number of pregnancies. West, op. cit., p. 407 Treatise on multi-Midwifery, para Part 5, Chap. vii, § 13 Schelle, from Cohnstein (Case 30) Putegnat, Journal de Ade Ge Bruxelles, nancy	Chief symptoms and signs indicating cancer.		BES H S B B	e 50	Abundant sanious fætid discharge, sometimes	pair to C
Age and number of pregnancies. West, op. cit., p. 407 Treatise on multi-Midwifery, para Part 5, Chap. vii, § 13 Schelle, from Cohnstein (Case 30) Putegnat, Journal de Ade Ge Bruxelles, nancy	Duration of disease.	1	1	1	1	
Authority and reference. West, op. cit., p. 407 Part 5, Chap. vii, § 13 from Cohnstein (Case 30) Putegnat, Journal de Med. de Bruxelles,		1	45 multi- para	40	40 3rd	nancy
	-	West, op. cit., p. 407	Caseaux, Treatise on Midwifery, Part 5, Chap. vii, § 13	Schelle, from Cohnstein		Bruxelles,
		175	176	177	178	

tex pre-fissures of os gave pas-child, sentation of Natural Os uteri opened after 96 Living wras ferred." Was bour pains
ex pre- fissures of os gave pas- entation sage to the child A mos. Natural Os uteri opened after 96 Living bour pains bour pains Were a pontaneous montais dead dead A mos. Was "trans- ferred."
ex pre- fissures of os gave pas- entation sage to the child T mos. Natural Os uteri opened after 96 Living bour pains
ex preferation sage to the child attural Os uteri opened after 96 efforts hours' duration of labour pains
ous, ver- ex pre- entation 7 mos. Natural efforts
a s a
uteri similar to Case 7 Cancerous infiltration of vaginal portion. Os uteri ulcerated
- 1
38 9th preg- nancy
Lachapelle, op. cit., p. 371 Hugens-berger, from Cohnstein (Case 61)
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