A clinical lecture on dermoids, ovarian and pelvic: delivered at the Samaritan Free Hospital on Thursday, November 5th, 1903 / by Alban Doran.

#### **Contributors**

Doran, Alban H. G. 1849-1927. Royal College of Surgeons of England

## **Publication/Creation**

[London]: [publisher not identified], 1904.

#### **Persistent URL**

https://wellcomecollection.org/works/s6wdwf3e

### **Provider**

Royal College of Surgeons

#### License and attribution

This material has been provided by This material has been provided by The Royal College of Surgeons of England. The original may be consulted at The Royal College of Surgeons of England. Where the originals may be consulted. Conditions of use: it is possible this item is protected by copyright and/or related rights. You are free to use this item in any way that is permitted by the copyright and related rights legislation that applies to your use. For other uses you need to obtain permission from the rights-holder(s).



Wellcome Collection 183 Euston Road London NW1 2BE UK T +44 (0)20 7611 8722 E library@wellcomecollection.org https://wellcomecollection.org

## "SALUS POPULI SUPREMA LEX."

Vol. CXXVIII.

WEDNESDAY, FEBRUARY 10, 1904.

No. 6.

## A Clinical Lecture

# DERMOIDS: OVARIAN AND PELVIC,

DELIVERED AT THE SAMARITAN FREE HOSPITAL ON THURSDAY, NOVEMBER 5TH, 1903.

> By ALBAN DORAN, F.R.C.S., Surgeon to the Hospital.

ovarian dermoid are well known. We are all this condition is detected to ascertain the state of aware that they are cystic tumours containing the opposite ovary, for ovarian dermoid disease is greasy fluid, felted hair, bone, teeth, skin and often bilateral. more complicated structures. On the theories, Yet we hear the ovary.

We cannot really explain why dermoids grow, but we can often manage to treat them very satisfactorily. Knowing what they are like, we associations.

be of ovarian origin. Hence it is of great importance when such a tumour is discovered to draw up the uterus and examine its appendages with care. The chances are that in such a case rare, in women than in men. It burrows very a stump will be found replacing one ovary and tube, in other words, the dermoid was of ovarian interesting serous fold which the modern school of surgery has learnt to utilise so freely. It will establish collateral circulation and relieve ascites when stitched to the position of the permeum to burge freely, and has been and through an incision between the rectum and coccyx. This kind of dermoid is sometimes first recognised by the discharge of hair and grease ascites when stitched to the parietal peritoneum from the rectum or in the urine. in certain cases of cirrhosis, it will guard the general

under a diseased gall-bladder which requires drainage, but is too contracted to be fastened safely to the parietes, and it will greatly fortify the repair of plastic wounds in surgical operations on the stomach and intestines. The fostering qualities of omentum adherent to cysts detached from their original blood supply suggested the utilisation of that process of peritoneum for surgical purposes.

In a case of this kind, I repeat, the uterus should be carefully examined, not only to see if For practical purposes the characters of an the appendages be wanting on one side, but when

Yet we hear that an abdominal or pelvic or rather doctrines, which profess to explain their dermoid may be non-ovarian. This is quite true, origin we need not dwell, I only mention them for it has been found in a male, and not as a because patients and their friends, hearing about homologue of an ovarian tumour-in plainer the bones and teeth, not rarely ask questions, words, not as a tumour of the testicle. We need and expect an explanation. "Parthenogenesis" not dwell on dermoid elements in the testicle, is no explanation, but simply reminds us that dermoid cysts may be found in little girls; the term should be limited to a phenomenon seen in certain insects where an unimpregnated female in mind in these days when surgeons are always may produce fertile ova, the produce of which, ready to extirpate any removable tumour. In however, are, I understand, sterile unless impreg-nated. "Fœtal inclusion" is open to much objection, as is "the inherent formative power of taining hairs came away. The patient died in a few days, and a retro-peritoneal dermoid was found firmly united to the bladder and rectum. Wilks and Curling report another instance where must bear in mind some of their relations and a pelvic dermoid existed in a man, at. 21. It First, granting that we have to do with a pints of oily fluid coming away. Eight years later dermoid diagnosed by palpation, or even actually a calculus was removed by lithotomy; it had a exposed at an operation, we must remember not nucleus of hair. Thus a dermoid abdominal or only that the great majority of abdominal dermoid pelvic tumour may develop in a male; other tumours are ovarian, but also that a dermoid tumour found in the abdomen quite separate from the uterine appendages may, nevertheless, tapped; the escape of dermoid fluid into the peritoneal cavity is obviously dangerous.

deeply in the pelvis and may lie anterior to the uterus, or between it and the rectum, or comorigin, but has twisted itself off its pedicle. It pletely behind the rectum, in which case it causes usually adheres to the great omentum, that the perineum to bulge freely, and has been removed

peritoneal cavity if sewn to the abdominal wound ever, exceedingly rare, many recorded cases being

doubtful, or, more correctly speaking, instances of ovarian dermoids transplanted to the omentum. and moderate size, usually occupying the middle Returning to genuine ovarian dermoids, the most of the abdomen up to or above the umbilicus. important question in respect to their characters is, Are they innocent or malignant? It is now known that true pathological malignant degeneration of this kind of tumour is quite exceptional, and occurs late in the development of the growth. But the dermoid tissue not rarely implants itself on the peritoneum outside the cyst wall; this prejudicial change is constant in a form of dermoid mainly solid, named teratoma.

Dermoid cyst of the ovary proper is a very common tumour. I have operated in this hospital on five cases during the past summer. The percentage of dermoids in relation to other ovarian tumours is much higher than was once supposed, for mixed adenomatous and dermoid multilocular cysts are quite frequent. Only last month I removed a large cystic tumour, emptying during the operation several pints of typical ovarian fluid, free from dermoid elements, from a cyst larger than its fellows; afterwards grease and hair were found in some of the lesser cavities. Such an experience is common in ovariotomy. Ovarian dermoids proper are rarely multilocular, and nearly always pedunculated, which is for-tunate, as enucleation would involve risk of escape of septic grease. They are often bilateral, so that it is always necessary to make sure of the condition of the opposite ovary when an ovarian dermoid is removed.

This frequency of bilateral dermoid disease is specially important to bear in mind in cases under puberty. Ovarian cysts in children are nearly always dermoid, so when a cyst is diagnosed in a child the possibility that both ovaries may require removal must not be overlooked, and the consequences of double ovariotomy must be explained to the patient's friends.

Ovarian dermoids are met with in women of all ages; children, young girls, parous subjects, elderly virgins, and old women who have borne children. In age they appear sometimes, as in a case which I shall relate, to lie latent, but I have removed large dermoids in an active state of development from old patients.

There are four clinical features of special interest in relation to the common ovarian dermoid. (1) If diagnosed early, ovariotomy proves easy and highly successful. (2) Twisting of the pedicle and worse complications are very frequent. Association of an ovarian cyst with pregnancy, labour, and the puerperium is specially serious when the tumour is dermoid. (4) Neglected dermoids cause dangerous and intractable compli-

Early diagnosis of an ovarian dermoid is one of the greatest services which a doctor can render to a patient, and if the tumour be successfully removed cure is complete, for a dermoid is not pathologically malignant, so there will be no recurrence in the pedicle. The tumour has not, in such a case, contracted adhesions, its pedicle is rarely broad and usually narrow, and above all, none of the contents have escaped into the perioneal cavity, nor has bone or hair worked its way into the bladder or rectum. Even twisted pedicle, so frequent in dermoids, at first facilitates the operation, the ovarian vessels being usually plugged. If operation be delayed serious effects may arise from this complication.

An ovarian dermoid forms a tumour of small A very large dermoid is often compound, the main loculi being freed from dermoid elements, but this is not a matter of much clinical import. There will be resonance in the epigastrium and flanks. Free fluid in the peritoneal cavity is very unusual, just as in uterine fibroid disease. cases of glandular ovarian cyst this condition is not rare; in fibroma of the ovary (which has been taken for a dermoid when very soft) it is frequent, and in free papilloma or malignant disease of the ovary constant.

A dermoid ovarian tumour may fluctuate quite distinctly, but as a rule fluctuation is obscure, and there is a doughy feeling on palpation. Above all, irregular degrees of consistence in different parts of the tumour are very characteristic in most dermoids. It may feel tense high up, hard on one side, almost spongy on the other, doughy below, and so forth. When a mass of bone can be felt, diagnosis is practically certain. A true included monstrous fœtus never lies in a movable cyst and well up in the abdomen; a retained extra-uterine fœtus in a sac is associated with conditions in the pelvis and disturbances of the catamenia which are not to be detected in a case of uncomplicated dermoid, whilst a normal uterine fœtus should never be taken for bone in a dermoid cyst. As a rule, I find that bony plates in ovarian dermoids are not to be detected by palpation, even though plenty may be found in the tumour after or during its removal.

An ovarian dermoid is quite movable at first, and on pelvic exploration the uterus is nearly always far back, behind the lowest part of the tumour, which comes down to the level of the pelvic brim, if not lower. These relations are, however, by no means constant. Occasionally, as in a case where I operated here last month, the entire uterus lies forward, pushed upwards by the dermoid which comes down into Douglas's

When very small, a dermoid not rarely lies altogether in the pelvis, and occasionally remains there even after attaining a considerable size. Diagnosis is not always easy, but occasionally the doughy feeling is very evident on bimanual palpation. A pelvic dermoid is a distinct source of danger in young married women, as it will obstruct labour, and may rupture, especially should obstetrical operations be necessary

But complications often set in early. Ovarian dermoids are particularly liable to torsion of the pedicle, intra-cystic hæmorrhage (very rarely serious), adhesions due to irritation and inflammation of neighbouring peritoneum, septic infection of the contents and escape of the contents from the cyst cavity, either through rupture of the cyst wall or by processes which allow hair or bone to grow through the wall.

Even very early in its history a dermoid is often tender to touch, a fact which aids in diagnosis. A history of a very sharp attack of pain is not rare, while very often the patient complains that she has suffered from dull pain for several days.

The sharp pain means acute torsion of the pedicle; the dull pain, if observed by a medical attendant to be free from rise of temperature, signifies slow torsion. The latter complication, much the more frequent, is, however, often associated with local peritonitis, and in that case there will be more it ensue it hardly interferes with recovery. But or less feverishness. I once observed both forms of torsion in a patient under my care here with double ovarian dermoid disease. She had been subject to abdominal pains difficult to localise. After passing a motion she felt the most intense pain in the abdomen, and I found her moving about her bed in great agony, with free, cold perspiration. On operating, the right ovary was found converted into a big tumour, extremely livid and full of grease. Its pedicle was tightly twisted, with turgid veins and a large empty artery. The opposite ovary formed a yet larger dermoid tumour with its pedicle atrophied through chronic torsion. The patient on recovering from the anæsthetic, declared that she felt extreme relief as all pain was gone; this is not the rule immediately after an ovariotomy, but the pain caused by the ligatures on the pedicle was relatively so slight as compared with the sufferings

due to torsion that the patient hardly perceived it.

Septic changes in the contents of a dermoid cyst are frequent, and in non-puerperal cases are usually due to the bacillus coli entering at a point on the wall where there are adhesions. They add to the risk of complications after

ovariotomy.

Pregnancy involves yet greater risks, and in the puerperium worse germs than the bacillus coli may infect the cyst. We see a great deal of the results of pregnancy complicating ovarian tumours in this hospital, and dermoids specially cause trouble. The complications above described, particularly torsion, are very apt to occur during

pregnancy.

There can be no doubt that the tumour is more prejudiced than the pregnancy, for torsion of the pedicle, even when acute, does not necessarily cause abortion; delivery may be perfectly normal, provided that the tumour be above the pelvis, whilst the puerperium may proceed normally as far as the uterus and general system are concerned. although the cyst is at the same time becoming infected.

The treatment of pelvic dermoids during delivery is a grave matter, which we cannot fully discuss at present. Ovariotomy through an abdominal incision is probably the safest course, provided there be both a competent operator and satisfactory nursing and appliances at hand. Opening the cyst through a vaginal incision sounds simple, but after clearing away the fatty contents, often mixed with much hair, the cyst wall may be torn off in part as it is drawn down, so that the remainder of the tumour with the pedicle unligatured will slip back into the peritoneum. Dangerous hæmorrhage and peritoneal infection will ensue. It has been suggested that the experienced obstetrician, who has never done an ovariotomy, had better, in such a case, make an abdominal incision and draw up the tumour above the pelvic brim, closing the wound, delivering the woman, and then preparing her for operation after the puerperium.

These considerations, however, are mainly obstetrical and too much open to grave debate to be suitable for this lecture. As a rule the dermoid does not prejudice gestation, but is liable to complications during pregnancy, and is much exposed to infection in the puerperium. Experience teaches us that the removal of the dermoid during

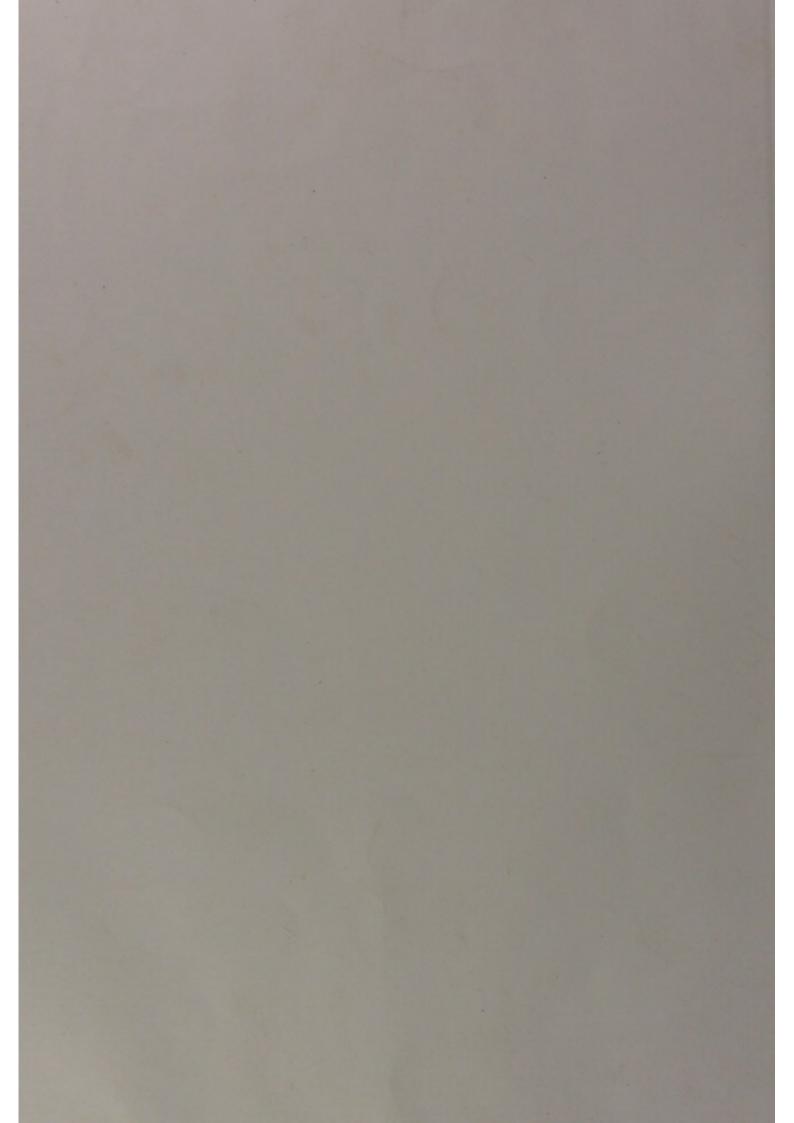
experience likewise reminds us that the risk of ovariotomy is greatly increased when the cyst and its greasy contents have undergone puerperal infection. On that account we should strongly advise a pregnant patient, who has an ovarian cyst, to have the tumour removed during pregnancy. Should she refuse, she should be kept in bed after the puerperium, and not allowed to rise before the operation is performed.

The spilling of grease, often mixed with hair, into the peritoneal cavity may necessitate flushing with saline solution, or free "toilet" with pads, but such manipulations increase the chances of abortion. Hence a small dermoid is best extracted entire through a free incision in the middle line, whilst if large, great pains must be taken to prevent grease escaping into the abdomen when the cyst is opened. A trocar and cannula are quite useless unless the fluid in the cyst is thin and abundant.

In my own practice I have detected chronic torsion of the pedicle with dense adhesions in six cases of ovariotomy on dermoids diagnosed (as tumours at least) before a recent pregnancy. The patients recovered, though the operation was always difficult, save in one very bad and neglected case of puerperal infection with fætid fluid in the cyst and close adhesions to large and small intestines. In conclusion, I will relate a case where I operated in this hospital last spring, on a patient who had been delivered of twins two years previously. Labour was on that occasion impeded by the tumour, which occupied part of the pelvic cavity, rising into the left iliac fossa. Once more the patient became pregnant and labour was induced at the sixth month, nine months before I performed ovariotomy. I found a small heavy dermoid of the left ovary full of fat and felted hair, strongly adherent to the uterus and rectum; the right ovary was dermoid and required Convalescence was rapid, but the case is instructive as showing how a dermoid cyst may imperil labour, and may itself be endangered by the processes of gestation.

Neglected dermoids were once very often seen in hospitals. When I was house-surgeon at St. Bartholomew's, in 1871, I saw two women, one almost a child, with pus and hair discharging from the bladder and rectum. Occasionally such cases are witnessed at the present day in patients who dread operative measures. Excision of part of the bladder or of intestine may be necessary, whilst in some cases the dermoid elements cannot be thoroughly extirpated. When the rectum is damaged by the separation of dense adhesions during the removal of an old dermoid, it is often advisable to drain by the vagina, and to sew the broad ligament to the peritoneum of the posterior part of the pelvis and upper portion of the rectum above the seat of injury. In this way the peri-toneal cavity is cut off from a focus of deadly infection; abdominal drainage is untrustworthy in such a case.

Under circumstances not clearly understood, small pelvic dermoids may lie latent for years and fail to contract adhesions. I removed a tumour of this class last summer from an old lady, æt. 63, in a nursing home, and the results were pregnancy is not dangerous, whilst abortion does not necessarily follow the operation, and should long, narrow pedicle of the heavy little tumour. satisfactory. Most probably growth is arrested in these cases by plugging of the vessels in the



FINAL PAGE/BACK
COVER ISA RIGHT HAND
PAGE