

LAPAROSCOPIC (KEYHOLE) OPERATION FOR DERMOID CYST

**A.K.Trehan F.R.C.O.G., F.R.C.S. (Edin)
Consultant Minimal Access Gynaecologist**

DERMOID CYST (BENIGN TERATOMA)

- These are non cancerous cysts.
- The cysts can occur at any age but 90% occur in women of reproductive age so it is not surprising that they are the commonest ovarian cyst to be found in pregnancy.
- It contains brownish grey greasy material along with a variety of other tissues which commonly include hair, teeth, bone etc.
- Leakage of greasy material in the pelvis may produce chemical peritonitis causing adhesions (two organs sticking together) and pain. Every attempt must be taken to avoid soiling of the pelvis with this material when cyst is removed (during keyhole operation a bag is used for this purpose).
- Any size dermoid cyst can be treated laparoscopically (keyhole)
- In most instances there is no need to remove the whole ovary. Only the cyst can be removed leaving the healthy ovarian tissue behind.
- All attempts must be made to preserve the ovary after removing the cyst as these cysts occur in the young age group and not uncommonly similar cysts may develop in the other ovary.

LAPAROSCOPIC (KEYHOLE) OPERATION FOR DERMOID CYST

Case Number 1

- **The next thirteen photographs belong to the same patient who had dermoid cyst of her right ovary. The left ovary was entirely normal.**
- **The keyhole operation is undertaken by placing the cyst in a bag to prevent leakage of its greasy content and soiling of the pelvis with irritant material.**
- **The cyst is being successfully peeled off from the normal healthy surrounding ovarian tissue which is stitched to reconstruct the ovary.**

RIGHT SIDED DERMOID CYST OF THE OVARY IN A YOUNG PATIENT

UTERUS

RT FALLOPIAN TUBE

RIGHT OVARY WITH DERMOID CYST

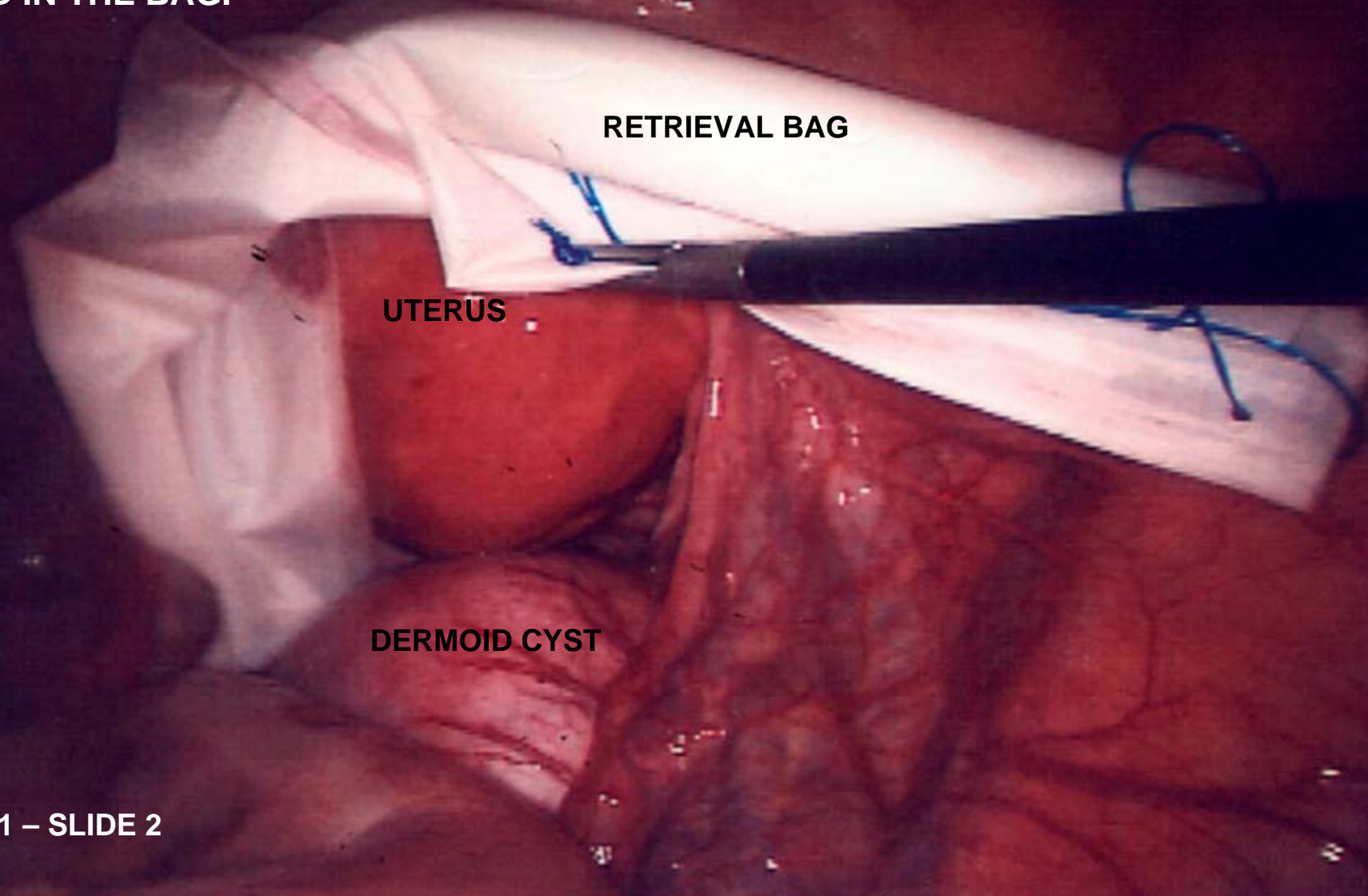
CASE 1 – SLIDE 1

BOWEL

Copyright Trehan



A FOLDED RETRIEVAL BAG HAS BEEN INSERTED INTO THE ABDOMINAL CAVITY THROUGH THE KEYHOLE. THIS BAG WILL BE UNFOLDED AND THE RIGHT OVARY WITH DERMOID WILL BE PLACED IN THE BAG.



RETRIEVAL BAG

UTERUS

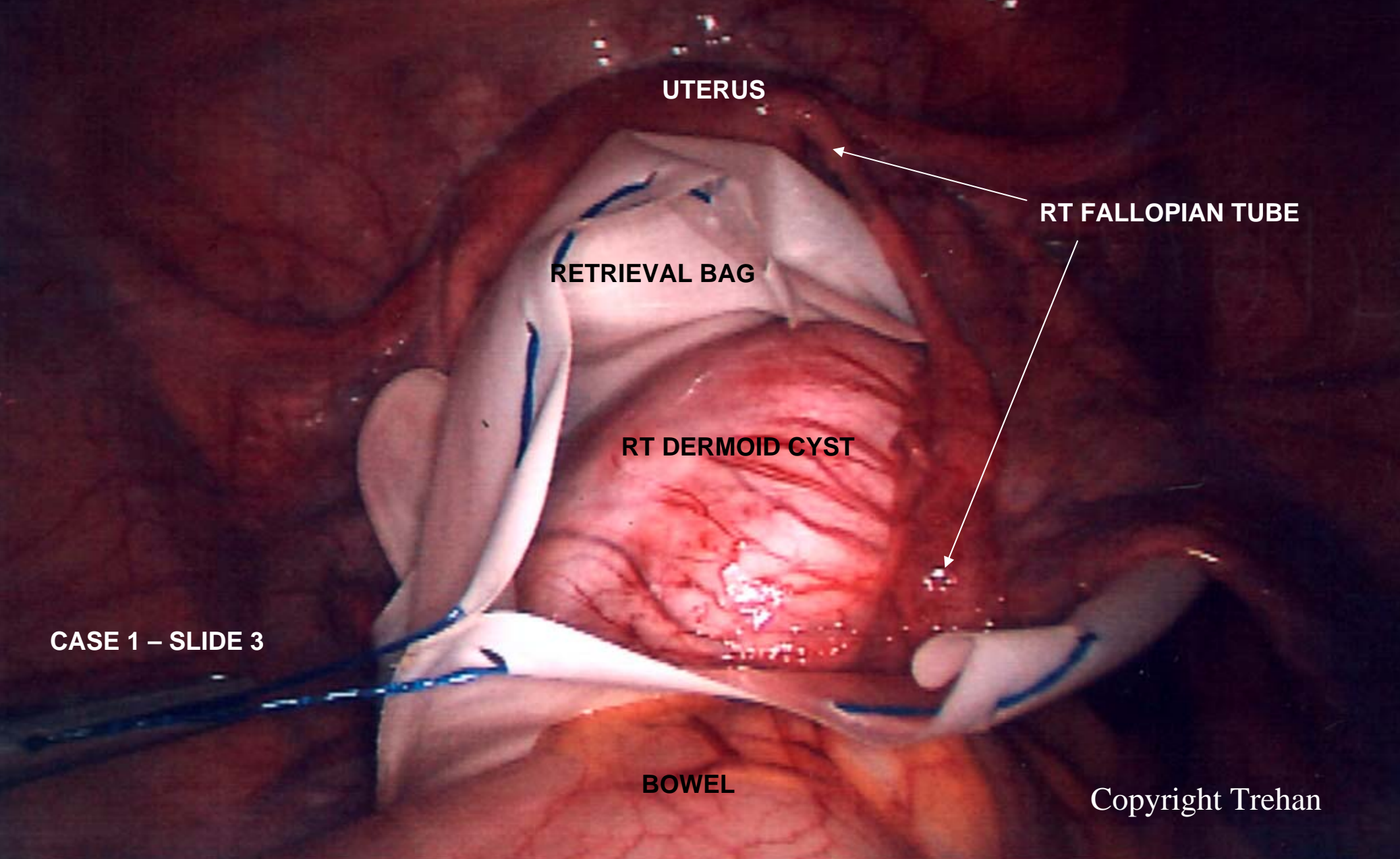
DERMOID CYST

BOWEL

CASE 1 – SLIDE 2

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RIGHT OVARY WITH DERMOID CYST HAS BEEN PLACED IN THE RETRIEVAL BAG TO PREVENT SPILLAGE OF ITS IRRITANT CONTENTS PRIOR TO CYSTECTOMY



UTERUS

RT FALLOPIAN TUBE

RETRIEVAL BAG

RT DERMOID CYST

CASE 1 – SLIDE 3

BOWEL

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THE DERMOID CYST IS BEING SEPERATED FROM THE OVARIAN TISSUE

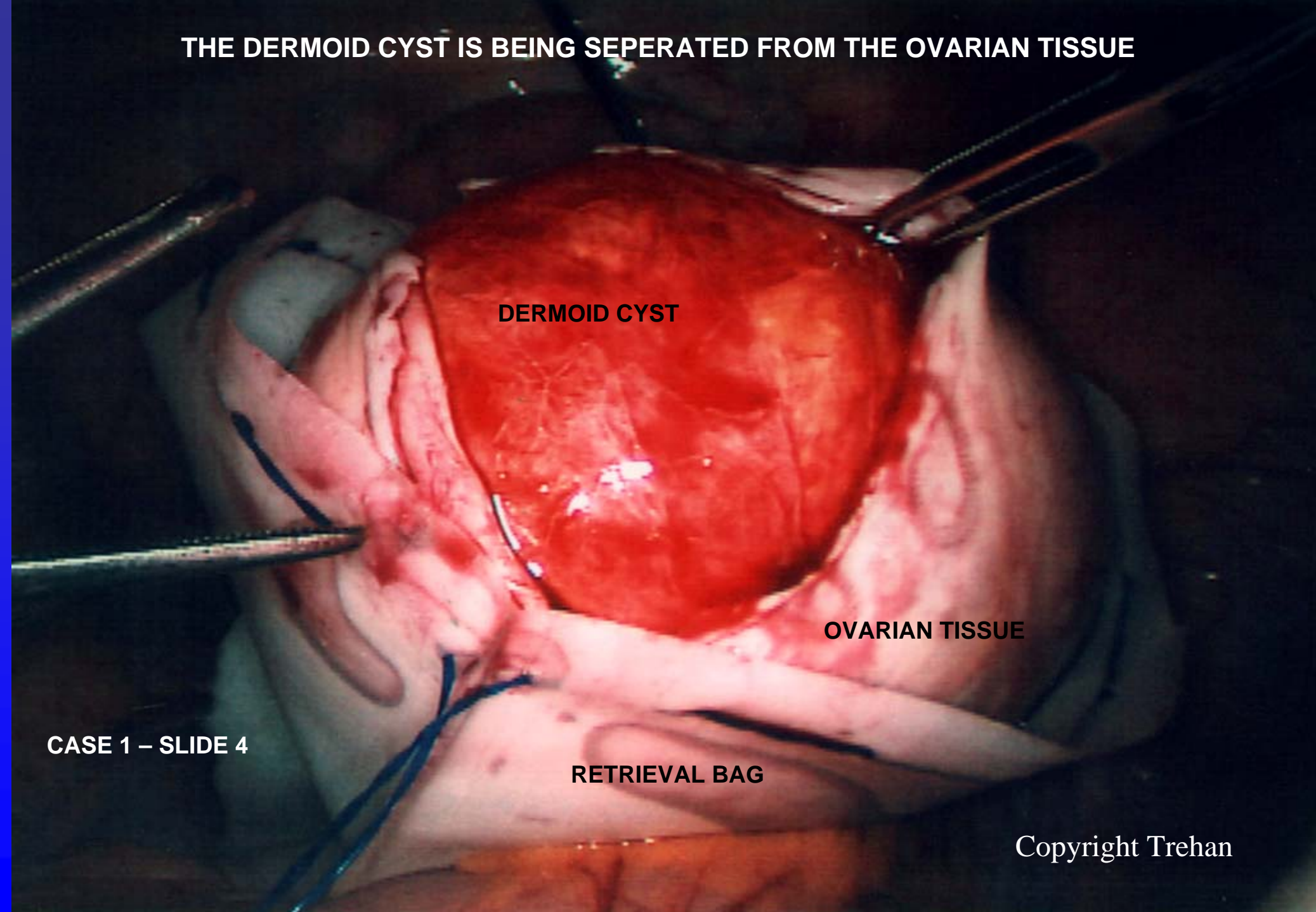
DERMOID CYST

OVARIAN TISSUE

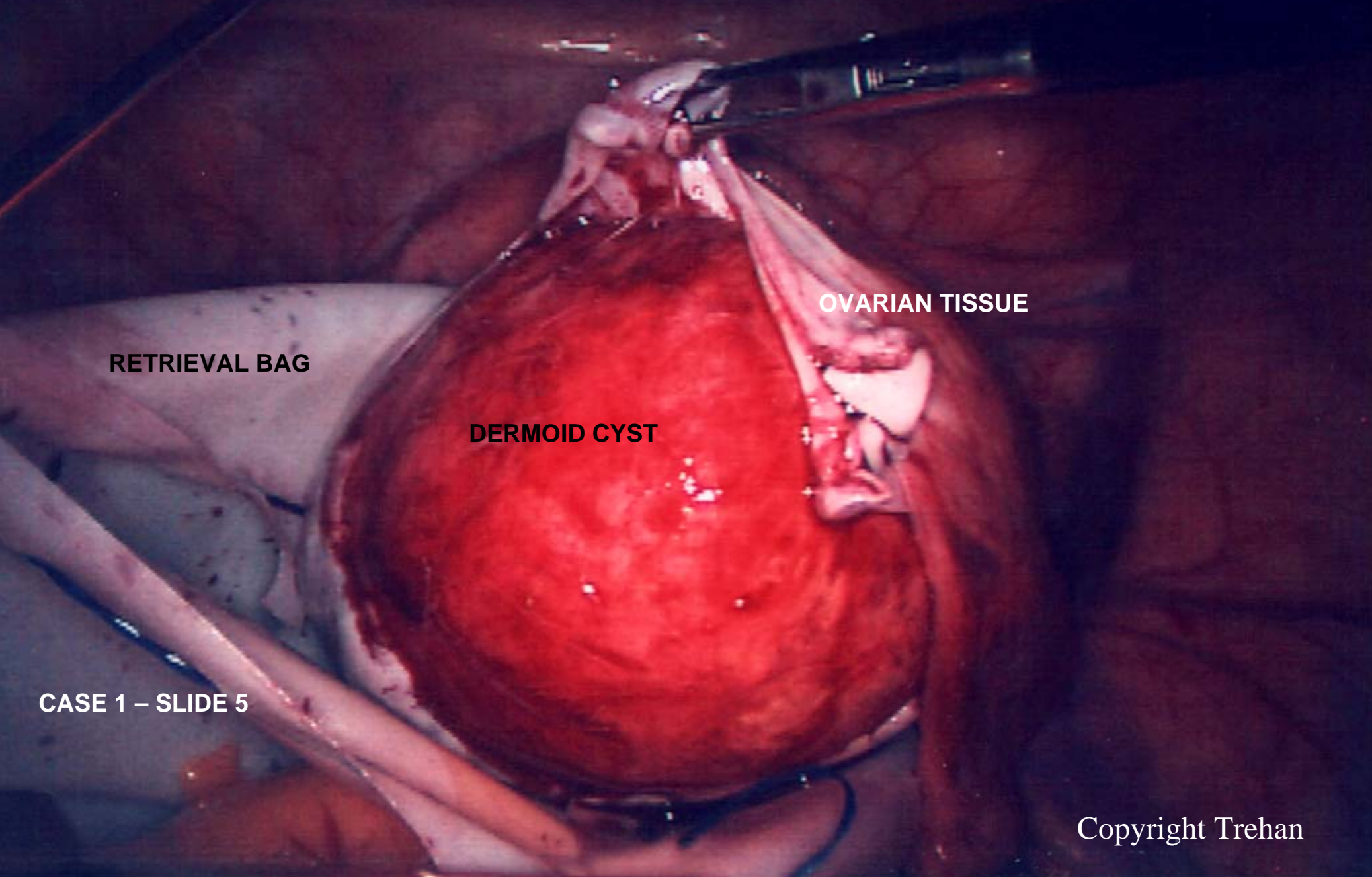
RETRIEVAL BAG

CASE 1 – SLIDE 4

Copyright Trehan



THE DERMOID CYST IS BEING SEPERATED FROM THE OVARIAN TISSUE



RETRIEVAL BAG

OVARIAN TISSUE

DERMOID CYST

CASE 1 – SLIDE 5

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DERMOID CYST HAS BEEN NEARLY PEELED OFF FROM THE REMAINING OVARIAN TISSUE

RETRIEVAL BAG

OVARIAN TISSUE

DERMOID CYST

CASE 1 – SLIDE 6

BOWEL

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**DERMOID CYST HAS BEEN COMPLETELY SEPERATED FROM THE OVARIAN TISSUE. ONLY
DERMOID CYST IN THE RETRIEVAL BAG VISIBLE.**

RETRIEVAL BAG

DERMOID CYST

CASE 1 – SLIDE 7

BOWEL

Copyright Trehan

DERMOID CYST HAS BEEN OPENED IN THE BAG TO PREVENT SPILLAGE OF THE IRRITANT CONTENTS AND ALSO TO REDUCE THE SIZE OF THE CYST, BY SUCKING AWAY THE PORRIDGE LIKE GREASY IRRITANT CONTENT FOR EASY REMOVAL THROUGH THE KEYHOLE.

RETRIEVAL BAG

**HAIR AND GREASY
CONTENT**

SUCTION INSTRUMENT

CASE 1 – SLIDE 8

GREASY CONTENT IN THE BAG

Copyright Trehan

ANTERIOR ABDOMINAL (TUMMY) WALL

**CLOSED RETRIEVAL BAG WITH CONTENTS
OF THE DERMOID CYST**

CASE 1 – SLIDE 9

**RETRIVAL BAG HAS BEEN CLOSED AND IS BEING REMOVED ALONG WITH THE DERMOID CYS
WALL AND REMAINING CONTENTS eg HAIR, BONE etc THROUGH THE KEYHOLE – IN THE
PROCESS OF BEING REMOVED.**

Copyright Trehan

REMAINS OF THE OVARIAN TISSUE AFTER REMOVAL OF DERMOID CYST

**HEALTHY REMAINS OF OVARIAN
TISSUE**

CASE 1 – SLIDE 10

Copyright Trehan

OVARY IS BEING RECONSTRUCTED BY STITCHING THE REMAINS OF OVARIAN TISSUE

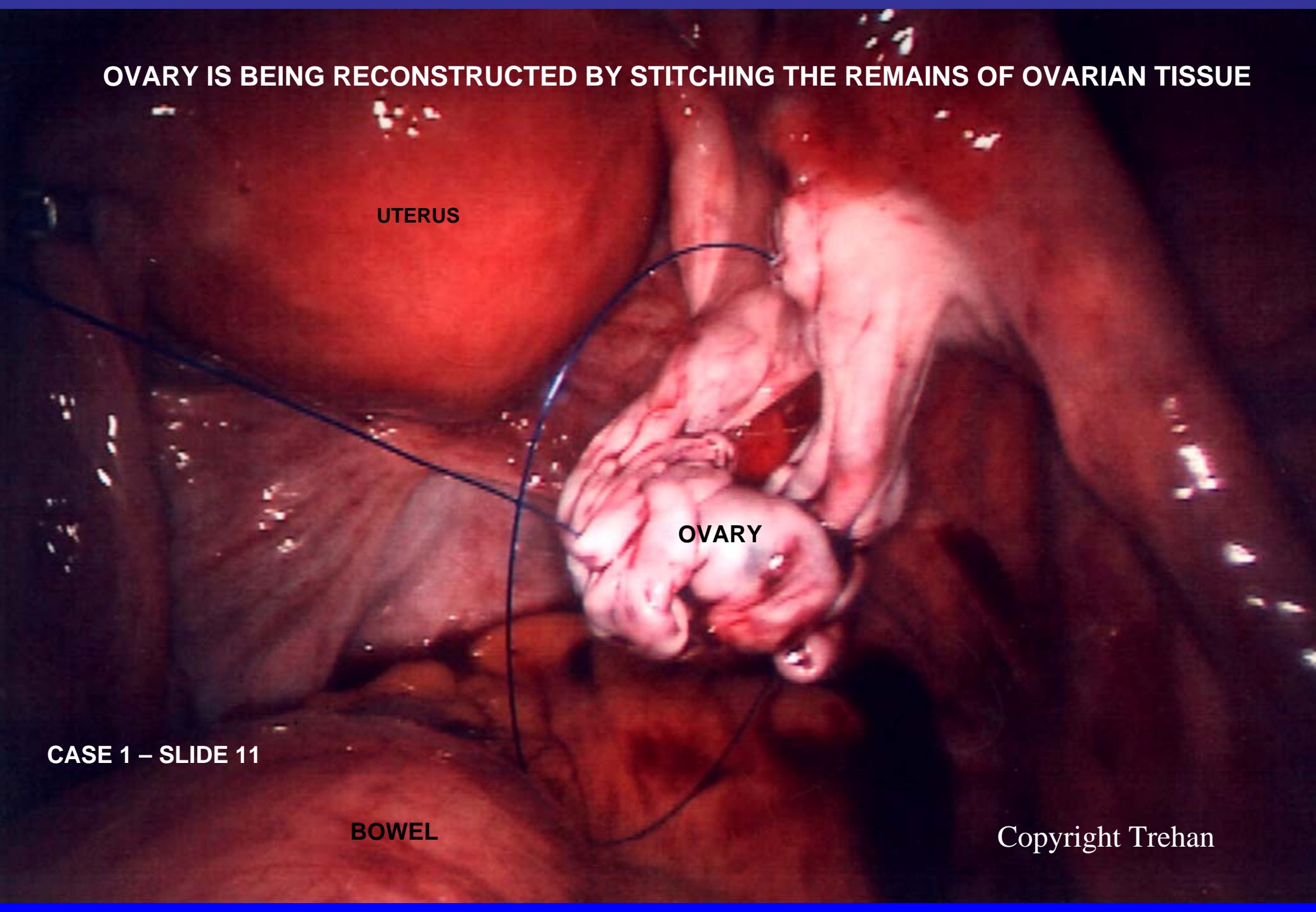
UTERUS

OVARY

CASE 1 – SLIDE 11

BOWEL

Copyright Trehan



OVARY IS BEING RECONSTRUCTED BY STITCHING THE REMAINS OF OVARIAN TISSUE

UTERUS

FALLOPIAN TUBE

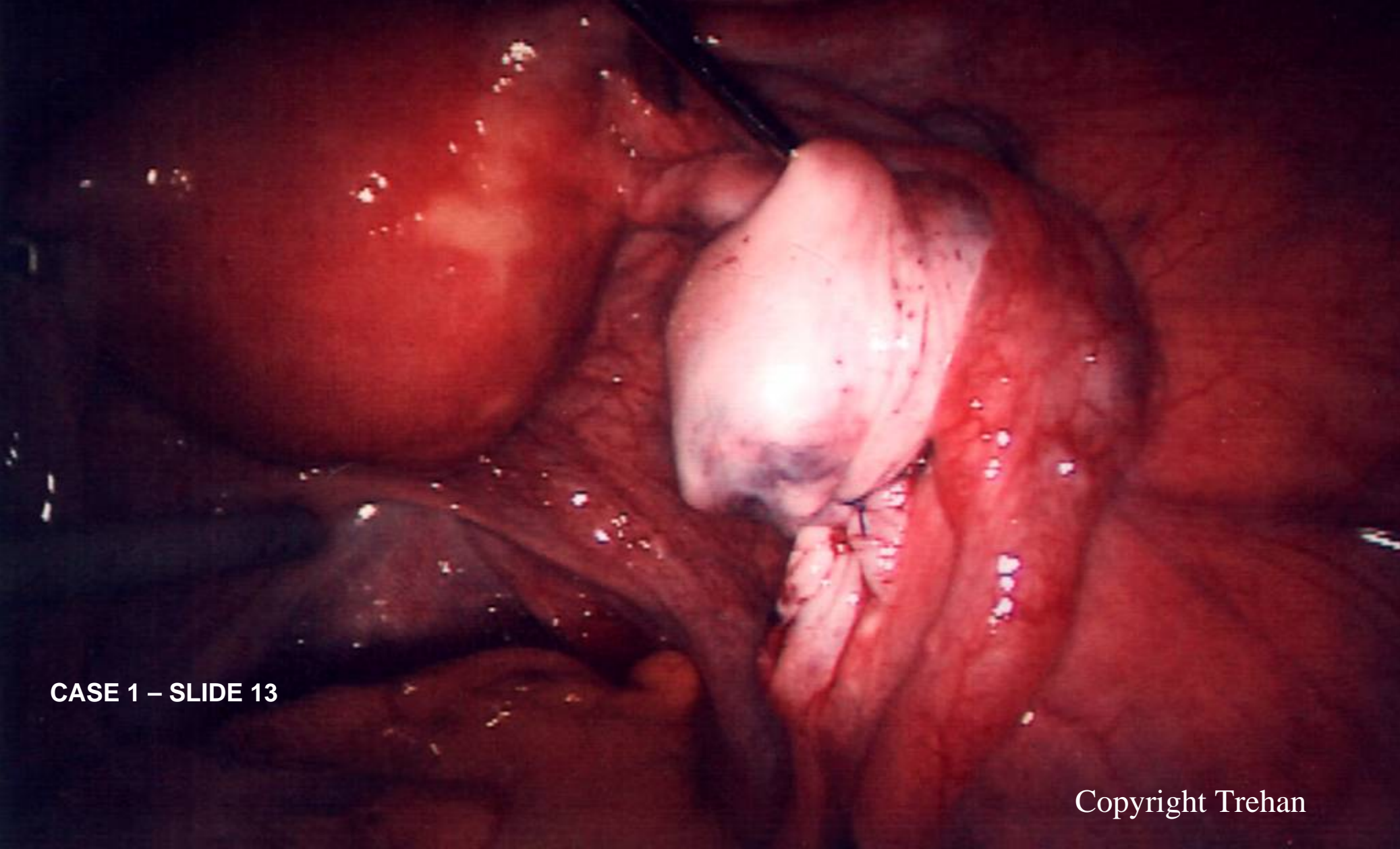
RECONSTRUCTED OVARY

CASE 1 – SLIDE 12

BOWEL

Copyright Trehan

**FINAL VIEW - OVARY HAS BEEN RECONSTRUCTED FROM REMAINS OF THE OVARIAN TISSUE
AFTER REMOVAL OF DERMOID CYST**



CASE 1 – SLIDE 13

Copyright Trehan

LAPAROSCOPIC (KEYHOLE) OPERATION FOR DERMOID CYST

Case Number 2

- The next thirteen photographs belong to the same patient who had very large dermoid cysts, (each cyst was app 10cm diameter) involving both ovaries.
- This is a young patient who is trying for pregnancy.
- Some of the greasy, porridge like irritant material of dermoid had leaked out a few weeks before this operation resulting in chemical peritonitis which gives a silvery white appearance.
- The keyhole operation is undertaken by placing the cyst in a bag to prevent leakage of its greasy content and soiling of the pelvis with irritant material.
- The cyst is being successfully peeled off from the normal healthy surrounding ovarian tissue which is stitched to reconstruct the ovary.
- Despite very large dermoid cysts both ovaries have been saved. This emphasises the fact that in most cases of dermoid ovaries can be saved and there is no need to remove the ovary.

**YOUNG PATIENT WITH LARGE DERMOID CYST INVOLVING BOTH OVARIES LEFT
DERMOID CYST IS SHOWN IN THIS SLIDE.**

LEFT FALLOPIAN TUBE

**UTERUS SHOWING CHEMICAL
PERITONITIS**

*Lf. ovarian cyst
Dermoid*

LARGE LEFT DERMOID CYST
Approximately 10cm diameter

CASE 2 – SLIDE 1

Copyright Trehan

YOUNG PATIENT WITH LARGE DERMOID CYST INVOLVING BOTH OVARIES LEFT DERMOID CYST IS SHOWN IN THIS SLIDE.

UTERUS SHOWING CHEMICAL PERITONITIS

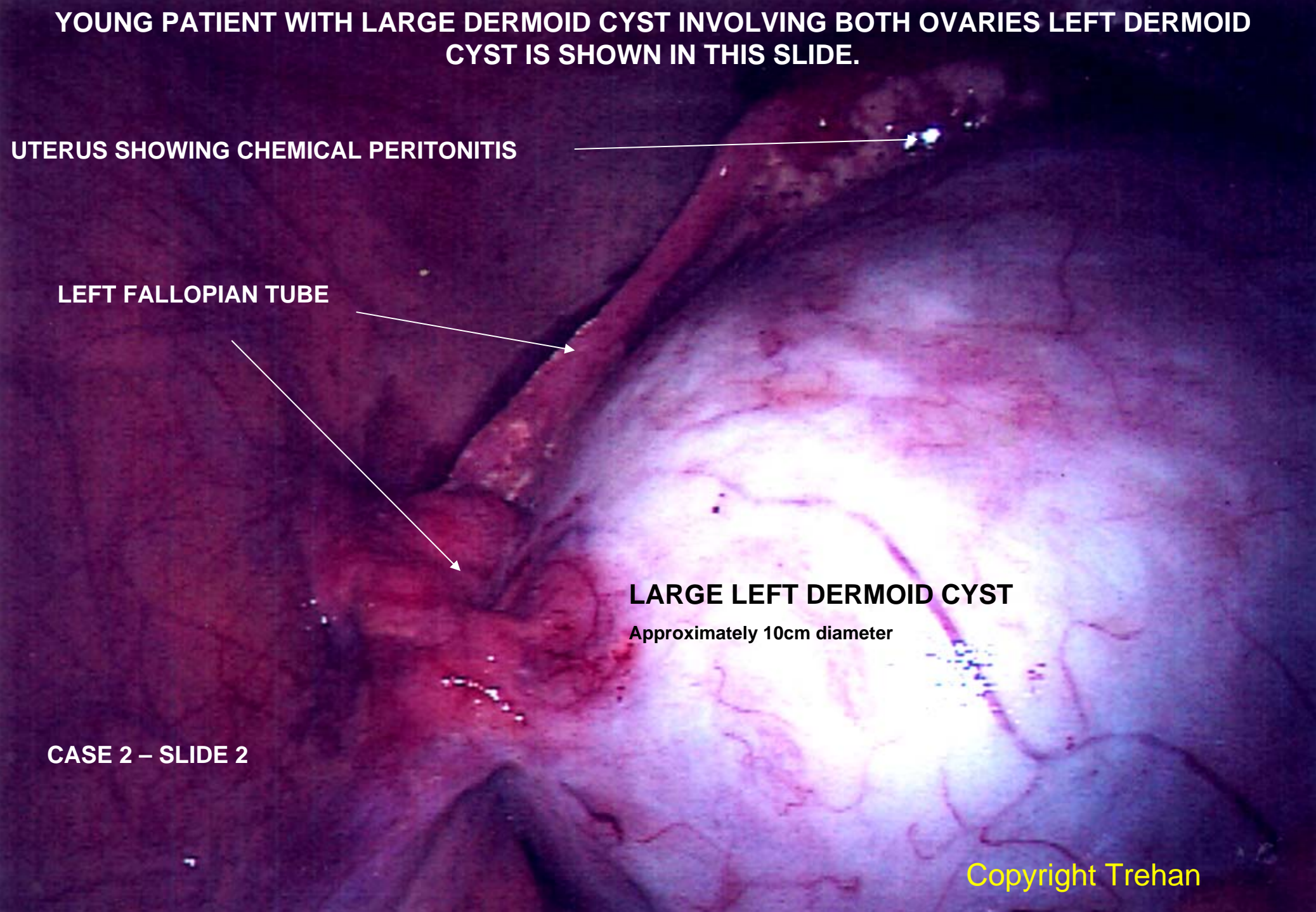
LEFT FALLOPIAN TUBE

LARGE LEFT DERMOID CYST

Approximately 10cm diameter

CASE 2 – SLIDE 2

Copyright Trehan



**YOUNG PATIENT WITH LARGE DERMOID CYST INVOLVING BOTH
OVARIES RIGHT DERMOID CYST IS SHOWN IN THIS SLIDE.**

UTERUS

*Rt. ovarian cyst
Dermoid*

LARGE RIGHT DERMOID CYST
Approximately 10cm diameter

CASE 2 – SLIDE 3

RETRIEVAL BAG

Copyright Trehan

(DURING KEYHOLE OPERATION)

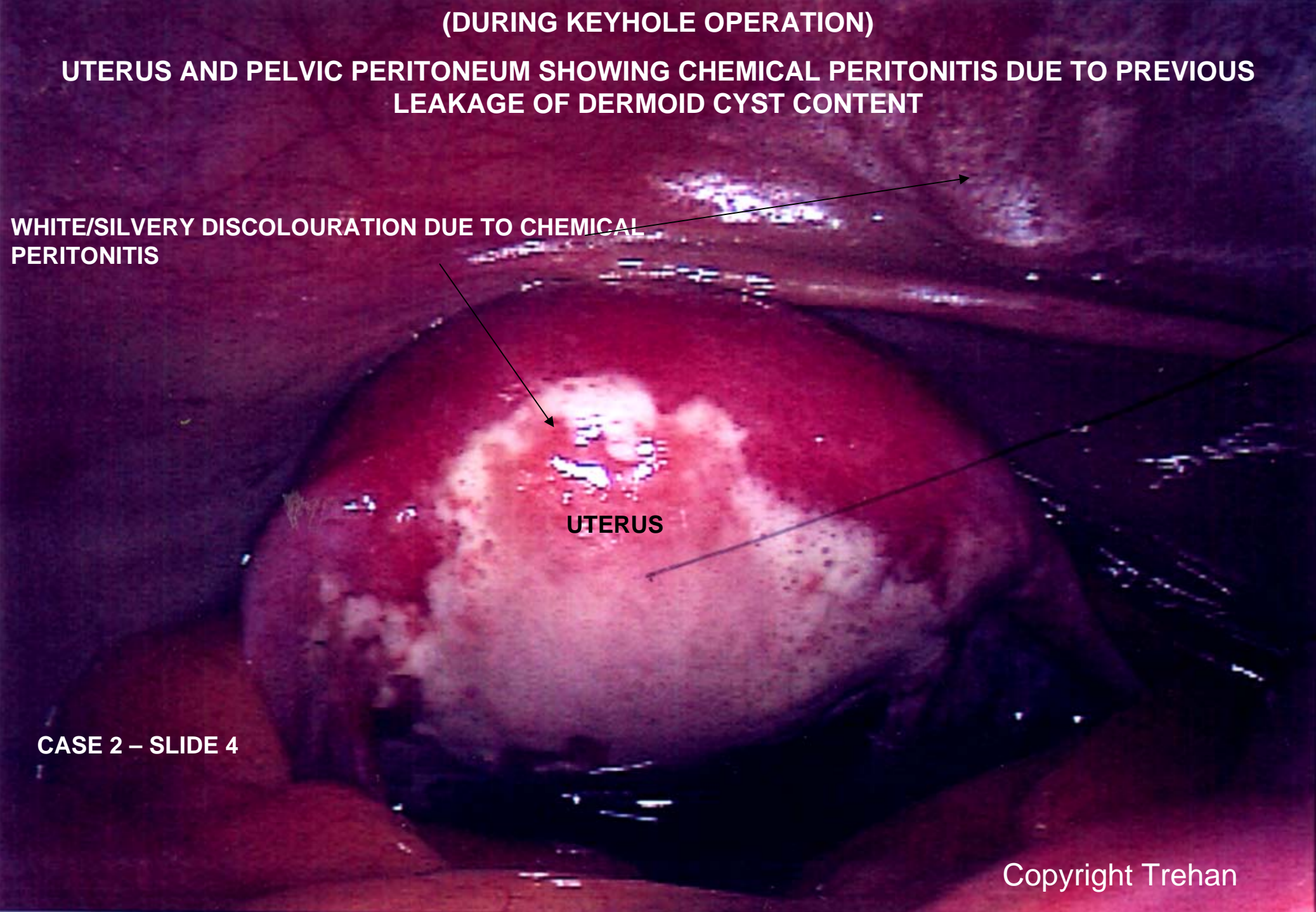
**UTERUS AND PELVIC PERITONEUM SHOWING CHEMICAL PERITONITIS DUE TO PREVIOUS
LEAKAGE OF DERMOID CYST CONTENT**

**WHITE/SILVERY DISCOLOURATION DUE TO CHEMICAL
PERITONITIS**

UTERUS

CASE 2 – SLIDE 4

Copyright Trehan



(DURING KEYHOLE OPERATION)

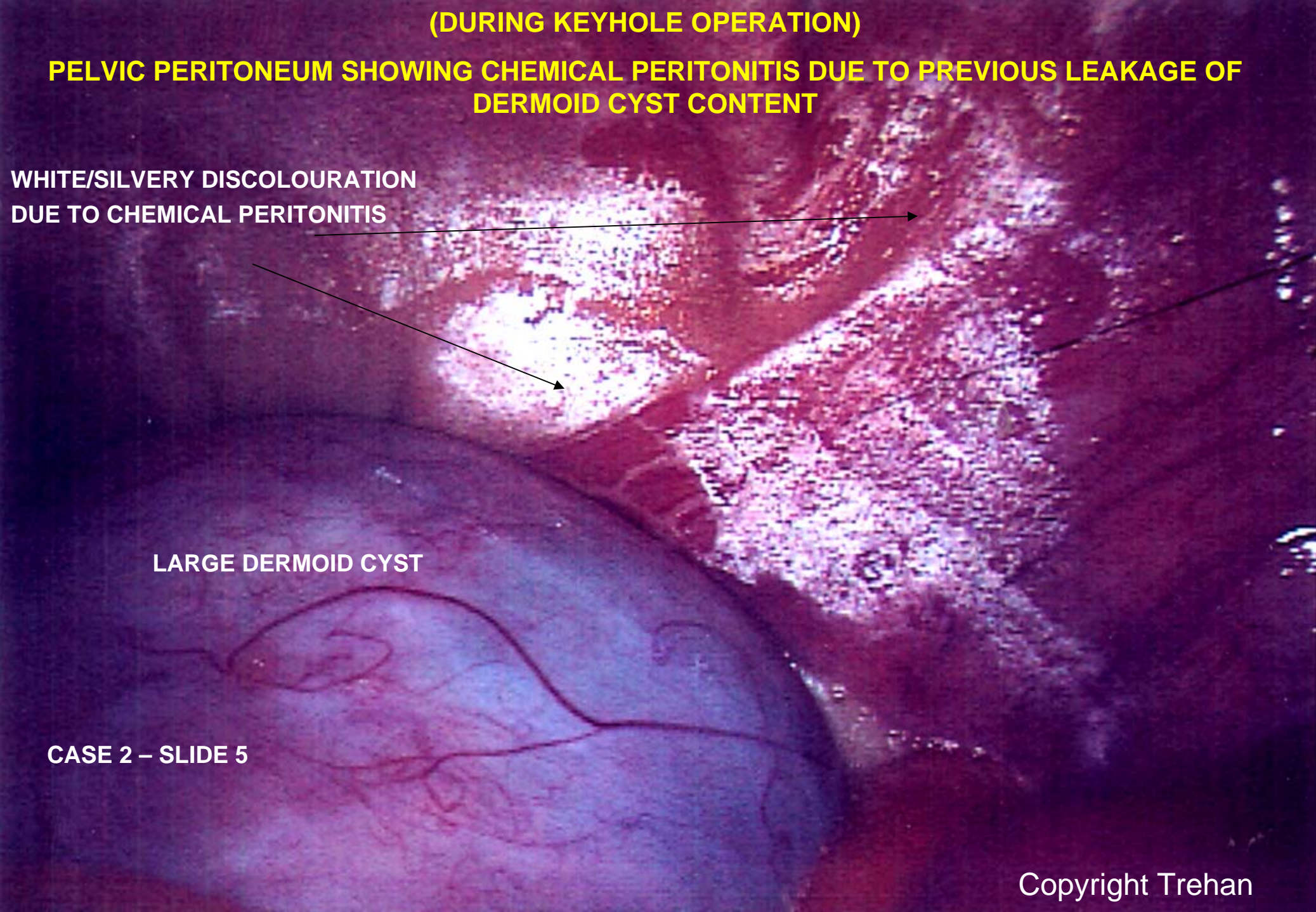
PELVIC PERITONEUM SHOWING CHEMICAL PERITONITIS DUE TO PREVIOUS LEAKAGE OF DERMOID CYST CONTENT

**WHITE/SILVERY DISCOLOURATION
DUE TO CHEMICAL PERITONITIS**

LARGE DERMOID CYST

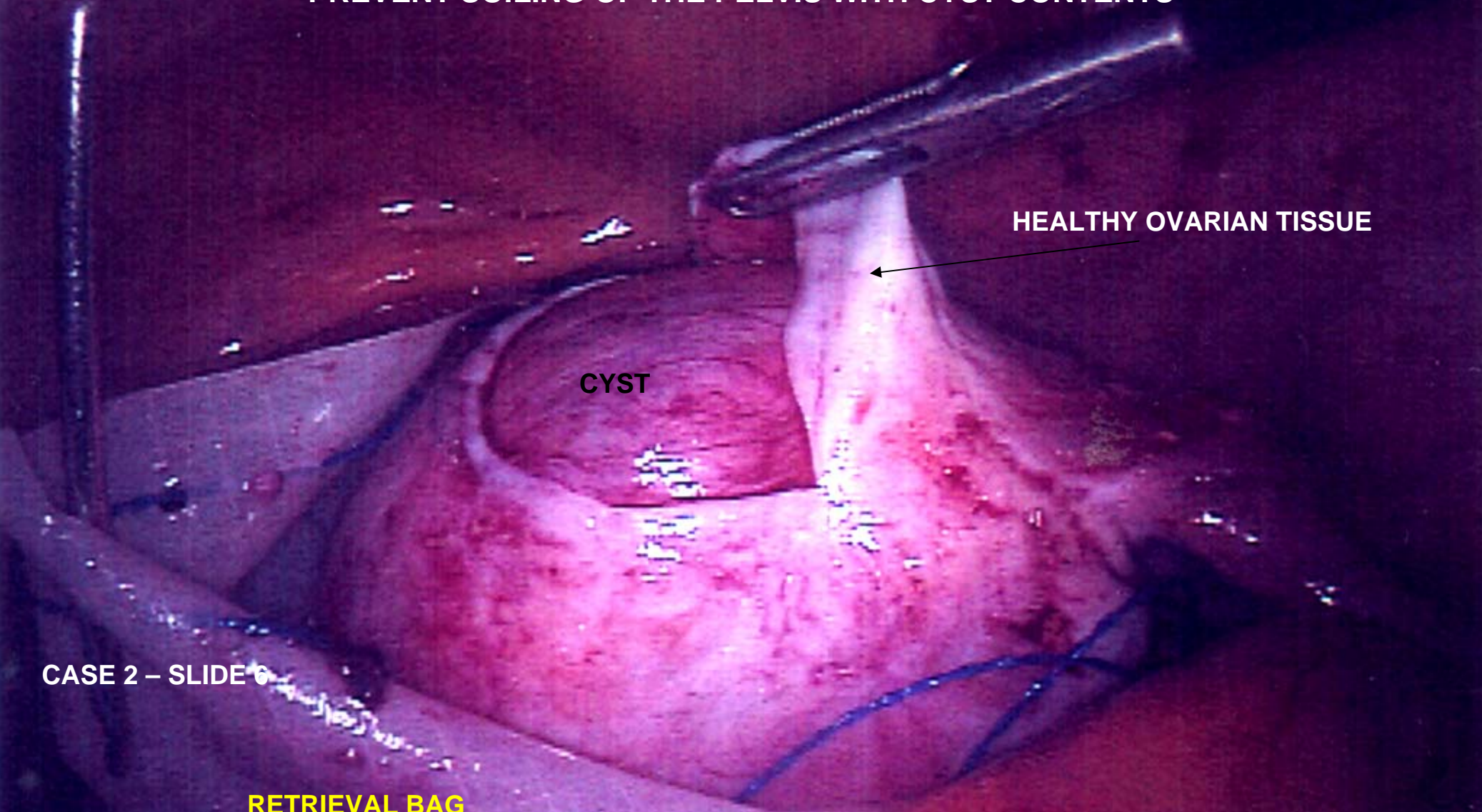
CASE 2 – SLIDE 5

Copyright Trehan



(DURING KEYHOLE OPERATION)

**REMOVAL OF THE CYST AFTER PLACING THE OVARY IN A RETRIEVAL BAG TO
PREVENT SOILING OF THE PELVIS WITH CYST CONTENTS**



HEALTHY OVARIAN TISSUE



CYST

CASE 2 – SLIDE 6

RETRIEVAL BAG

Copyright Trehan

(DURING KEYHOLE OPERATION)

CYST HAS BEEN OPENED IN THE BAG TO REMOVE THE CYST CONTENTS

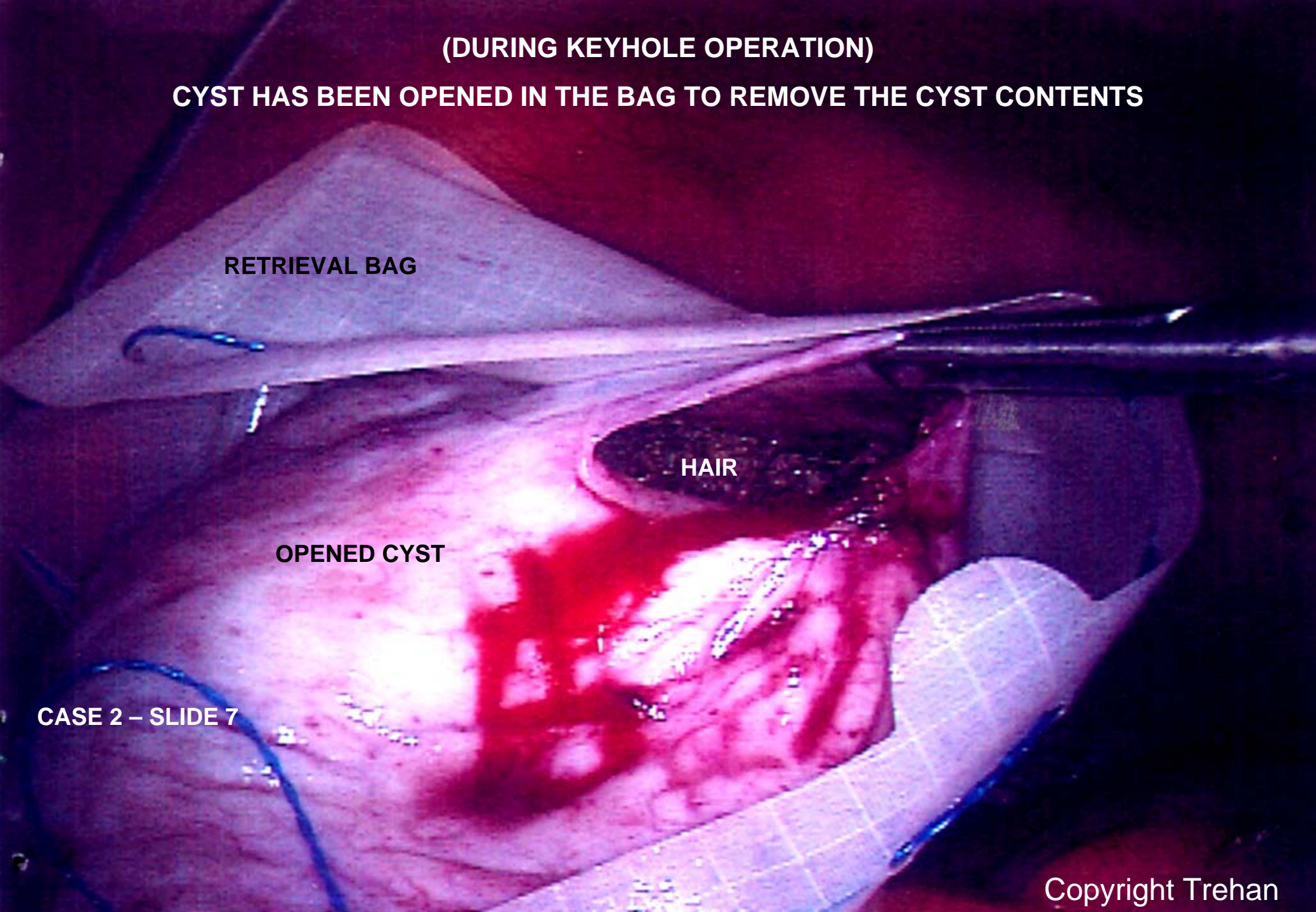
RETRIEVAL BAG

HAIR

OPENED CYST

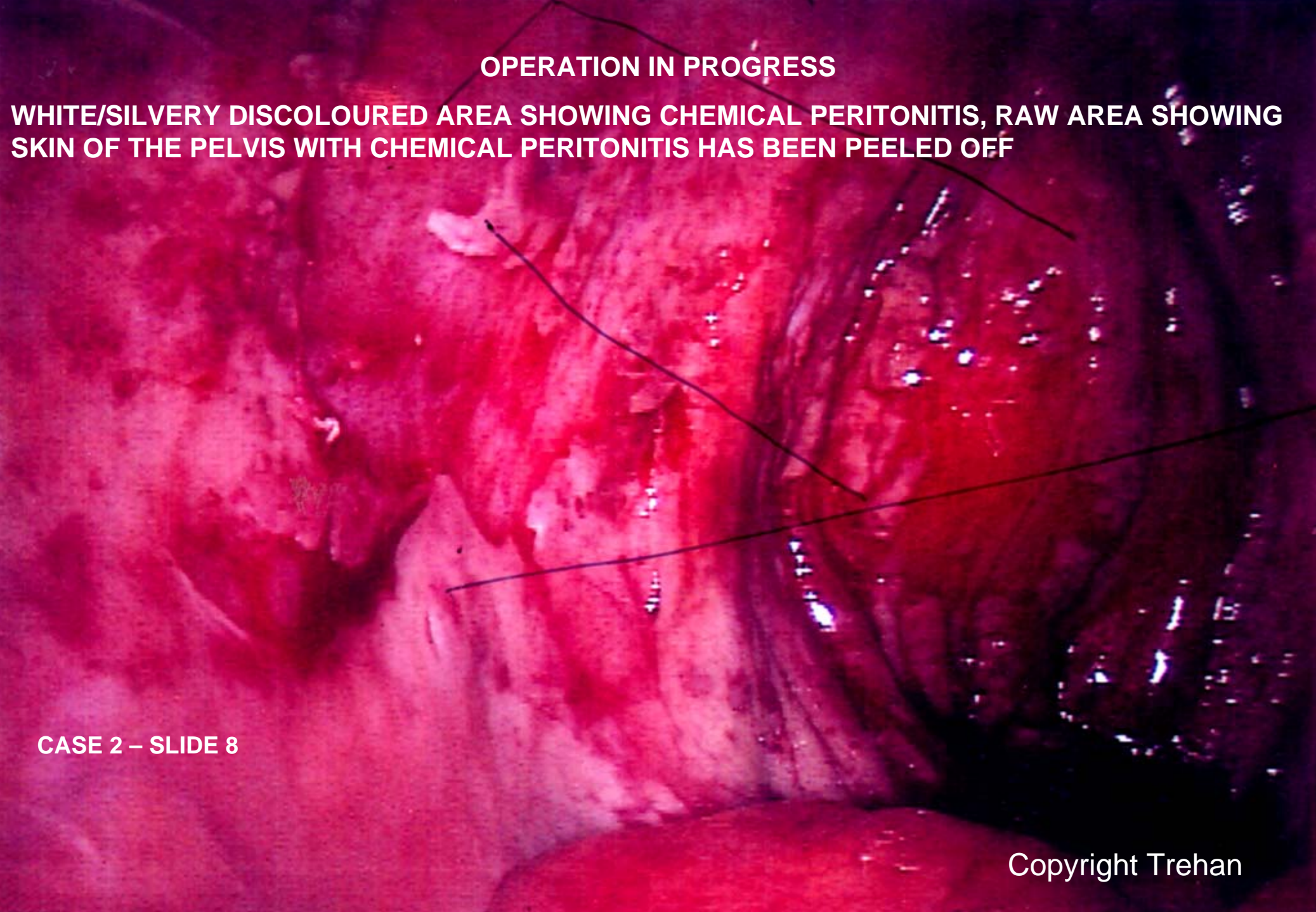
CASE 2 – SLIDE 7

Copyright Trehan



OPERATION IN PROGRESS

WHITE/SILVERY DISCOLOURED AREA SHOWING CHEMICAL PERITONITIS, RAW AREA SHOWING SKIN OF THE PELVIS WITH CHEMICAL PERITONITIS HAS BEEN PEELED OFF

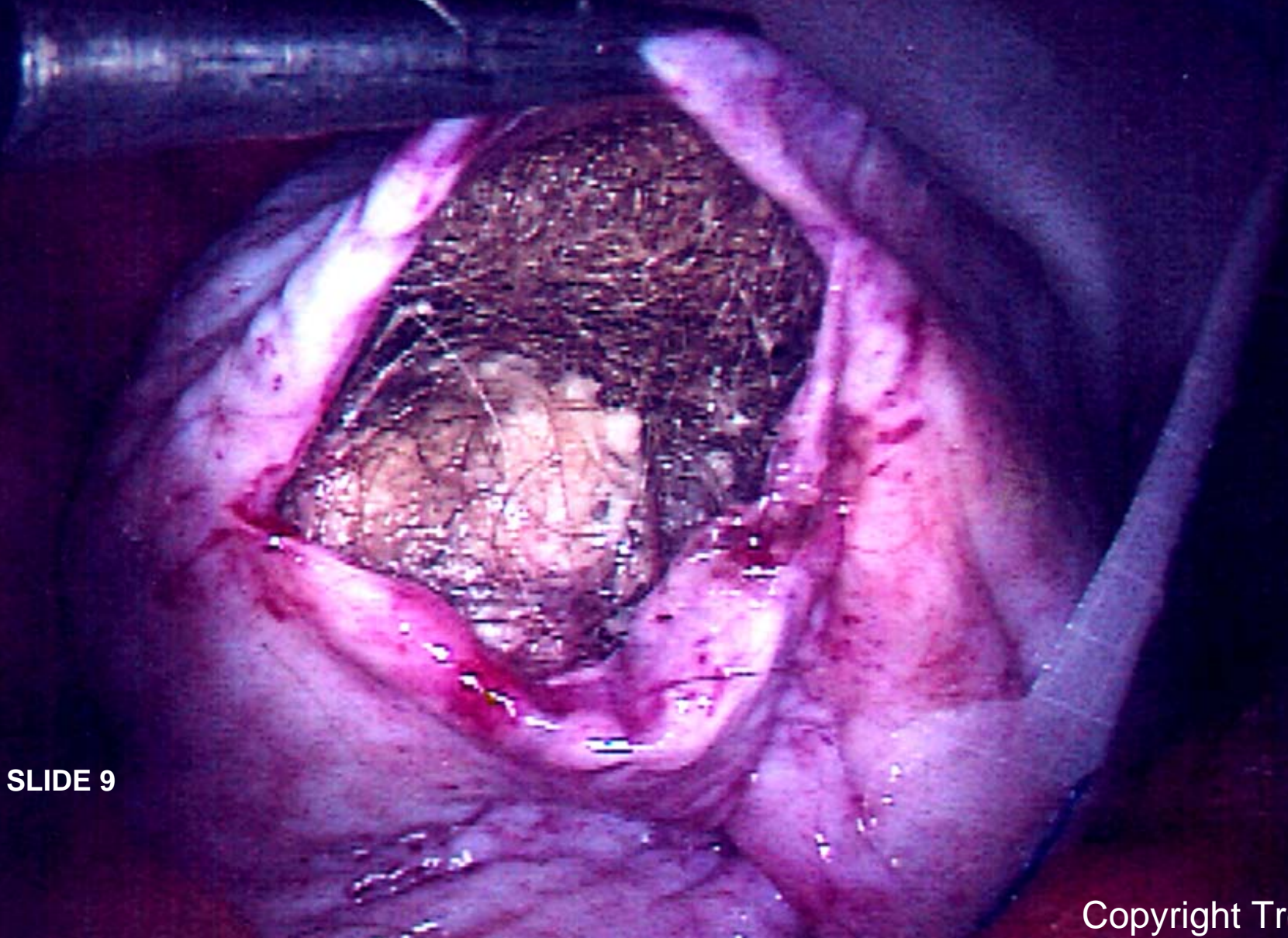


CASE 2 – SLIDE 8

Copyright Trehan

(DURING KEYHOLE OPERATION)

CYST HAS BEEN OPENED IN THE BAG. HAIR AND GREASY MATERIAL VISIBLE

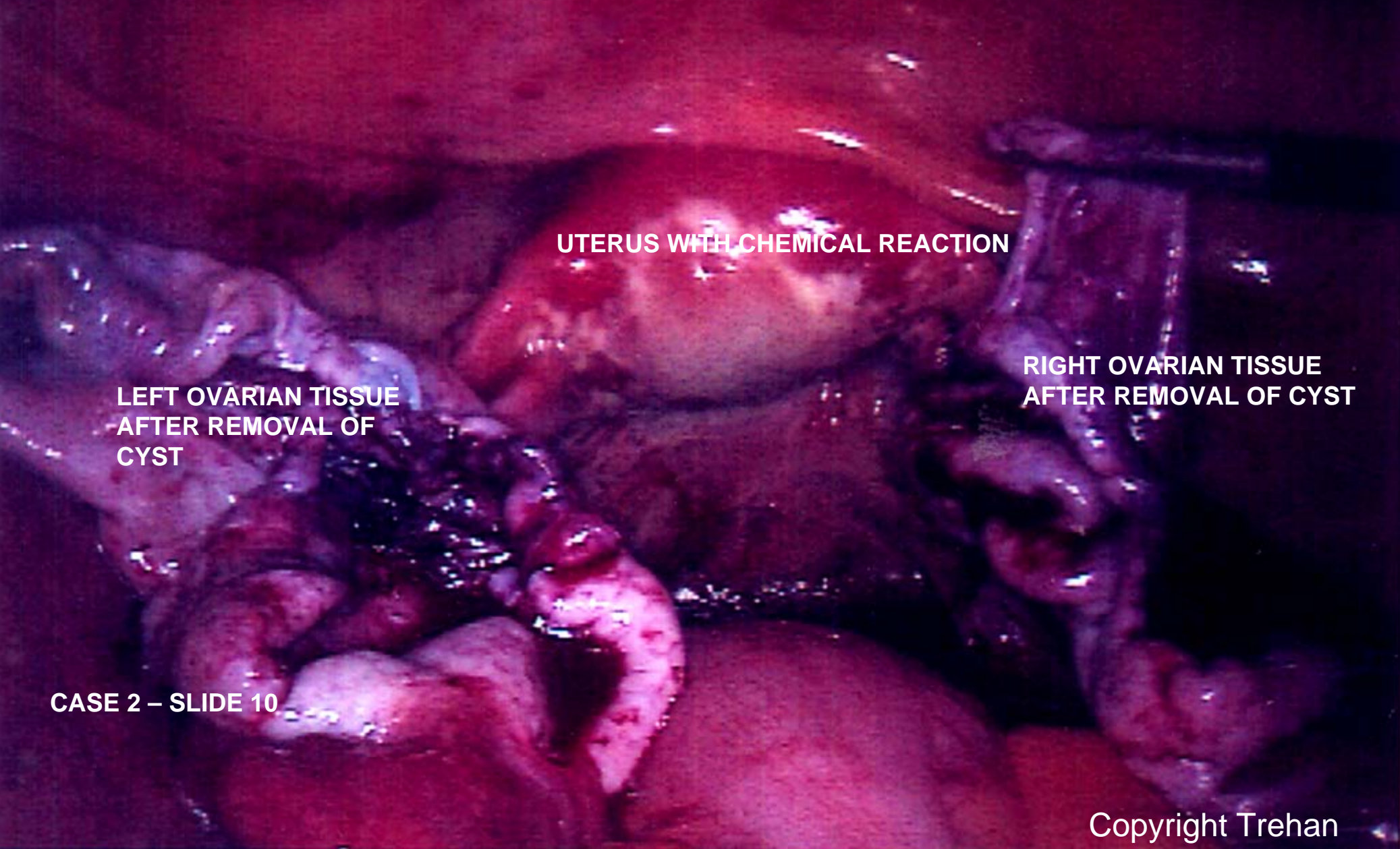


CASE 2 – SLIDE 9

Copyright Trehan

(DURING KEYHOLE OPERATION)

HEALTHY OVARIAN TISSUE PRIOR TO RECONSTRUCTION OF OVARIES AFTER REMOVAL OF BOTH LARGE DERMOID CYSTS



UTERUS WITH CHEMICAL REACTION

**LEFT OVARIAN TISSUE
AFTER REMOVAL OF
CYST**

**RIGHT OVARIAN TISSUE
AFTER REMOVAL OF CYST**

CASE 2 – SLIDE 10

Copyright Trehan

(DURING KEYHOLE OPERATION)

RIGHT HEALTHY OVARIAN TISSUE AFTER REMOVAL OF THE CYST HAS BEEN STITCHED TO RECONSTRUCT THE RIGHT OVARY.

UTERUS

RIGHT OVARY

CASE 2 – SLIDE 11

Copyright Trehan

(DURING KEYHOLE OPERATION)

BOTH RIGHT AND LEFT OVARIES HAVE BEEN RECONSTRUCTED.

LEFT OVARY

RIGHT OVARY

**BLUE DYE TEST SHOWING OPEN
LEFT FALLOPIAN TUBE**

**BLUE DYE TEST SHOWING OPEN
RIGHT FALLOPIAN TUBE**

CASE 2 – SLIDE 12

LARGE BOWEL

Copyright Trehan

(DURING KEYHOLE OPERATION - FINAL VIEW)

BOTH OVARIES ARE PRESERVED AND RECONSTRUCTED AFTER REMOVING OF DERMOID CYST AND AREAS OF CHEMICAL PERITONITIS HAVE BEEN CLEANED.

UTERUS

RIGHT OVARY

LEFT OVARY

LEFT FALLOPIAN TUBE

RIGHT FALLOPIAN TUBE

CASE 2 – SLIDE 13

Copyright Trehan