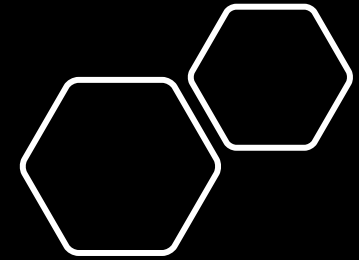


Two Words



Entrapment
Compression

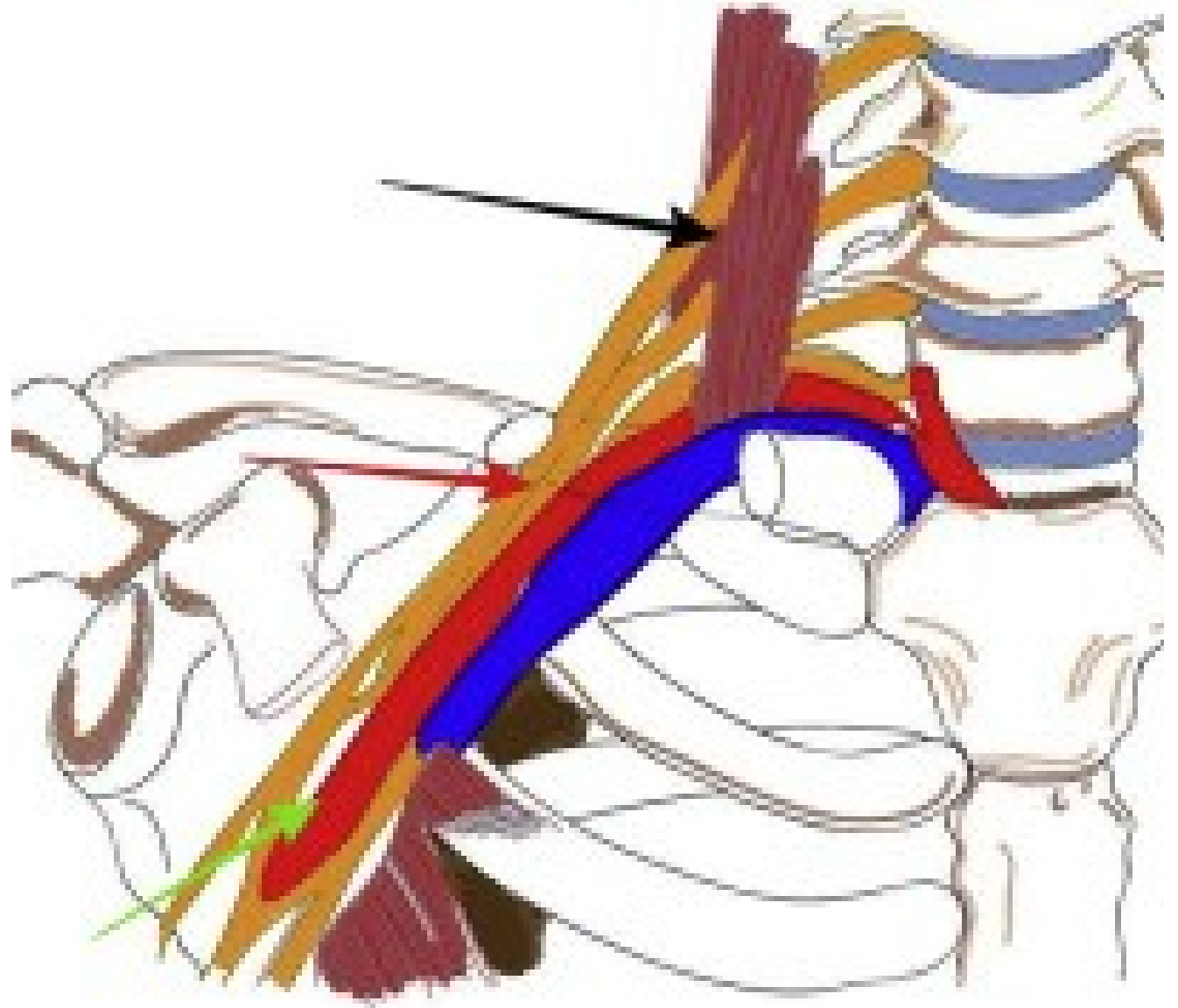
A 3D-rendered banner with a light blue, wavy texture. The banner is divided into two sections by a central vertical crease. The word "SYNONYMS" is written across both sections in a bold, black, sans-serif font. The banner is set against a solid purple background and casts a dark shadow on the surface below it.

SYNONYMS

What is going to be compressed?



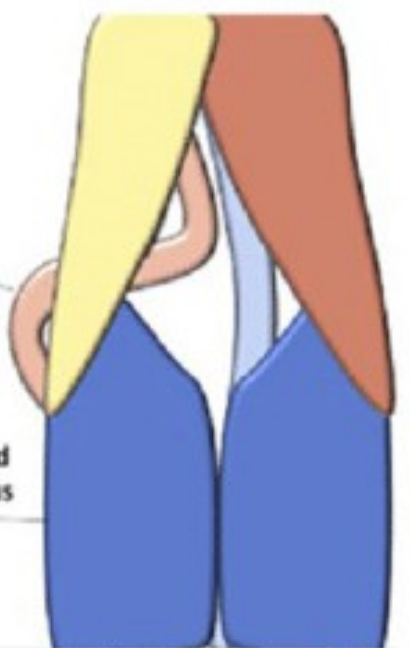
**Neurovascular
Bundle
Compression
Syndromes**





Aberrant Popliteal Artery

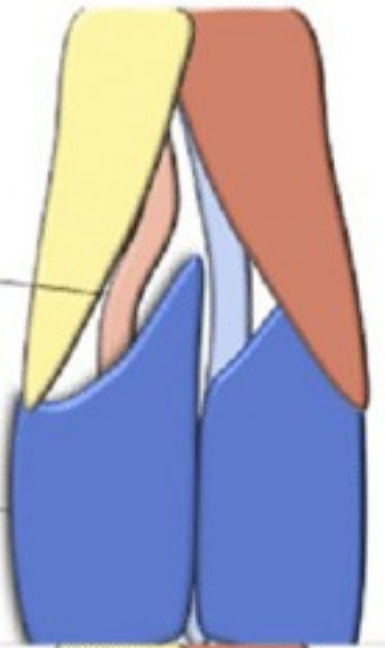
Normal Medial Head Of the Gastrocnemius



I

Popliteal Artery

Aberrant Medial Head Of the Gastrocnemius

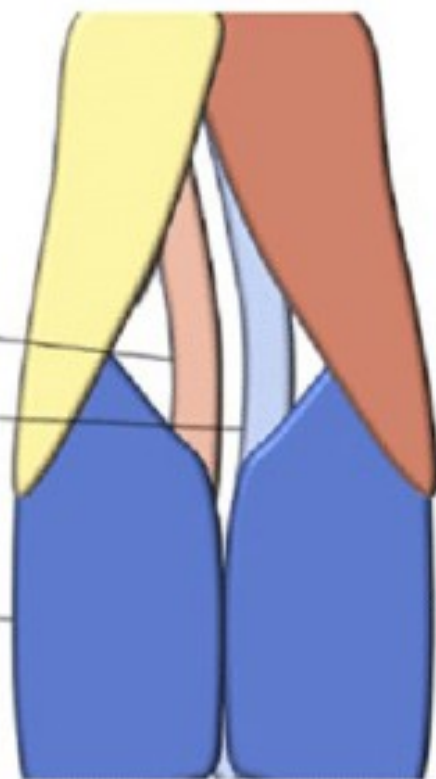


II

Popliteal Artery

Popliteal Vein

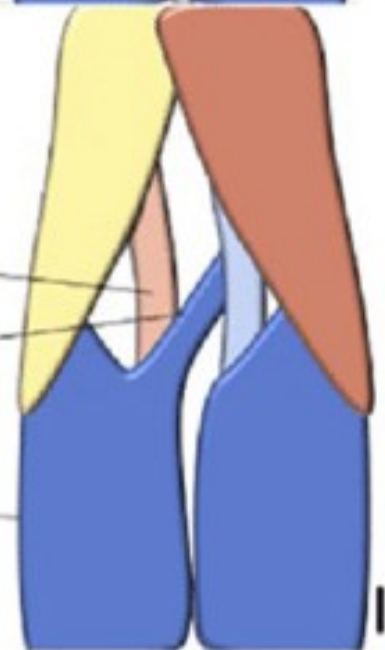
Medial Head Of the Gastrocnemius



Popliteal Artery

Accessory Slip

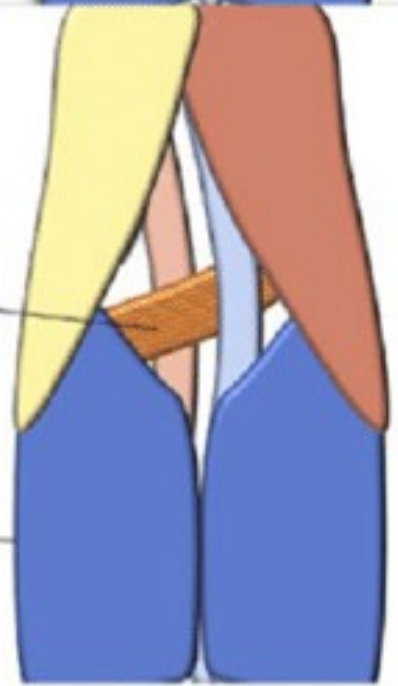
Medial Head Of the Gastrocnemius



III

Popliteus muscle

Medial Head Of the Gastrocnemius



IV

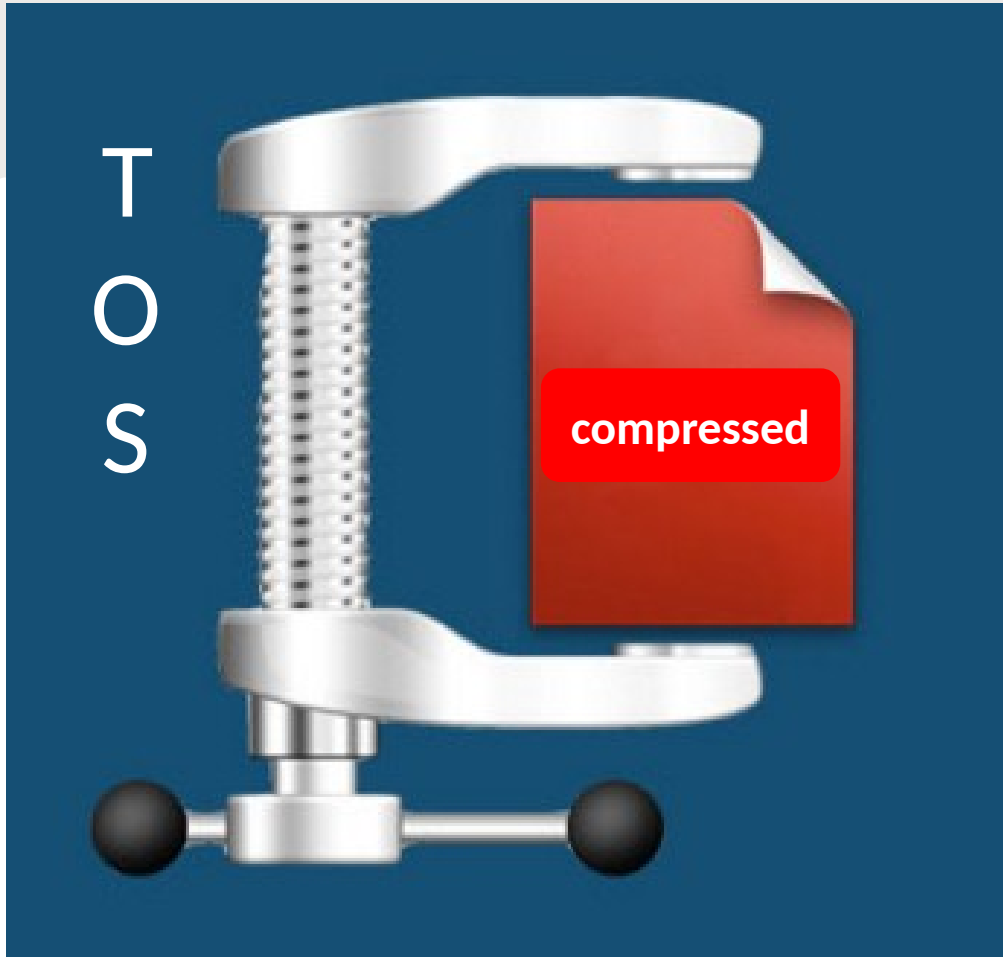
Vascular Entrapment / Compression Syndromes

- Group of symptoms and signs that are caused by.....
- the entrapment /compression of **vessels** between rigid or semirigid surfaces.....
- in a confined anatomic space.

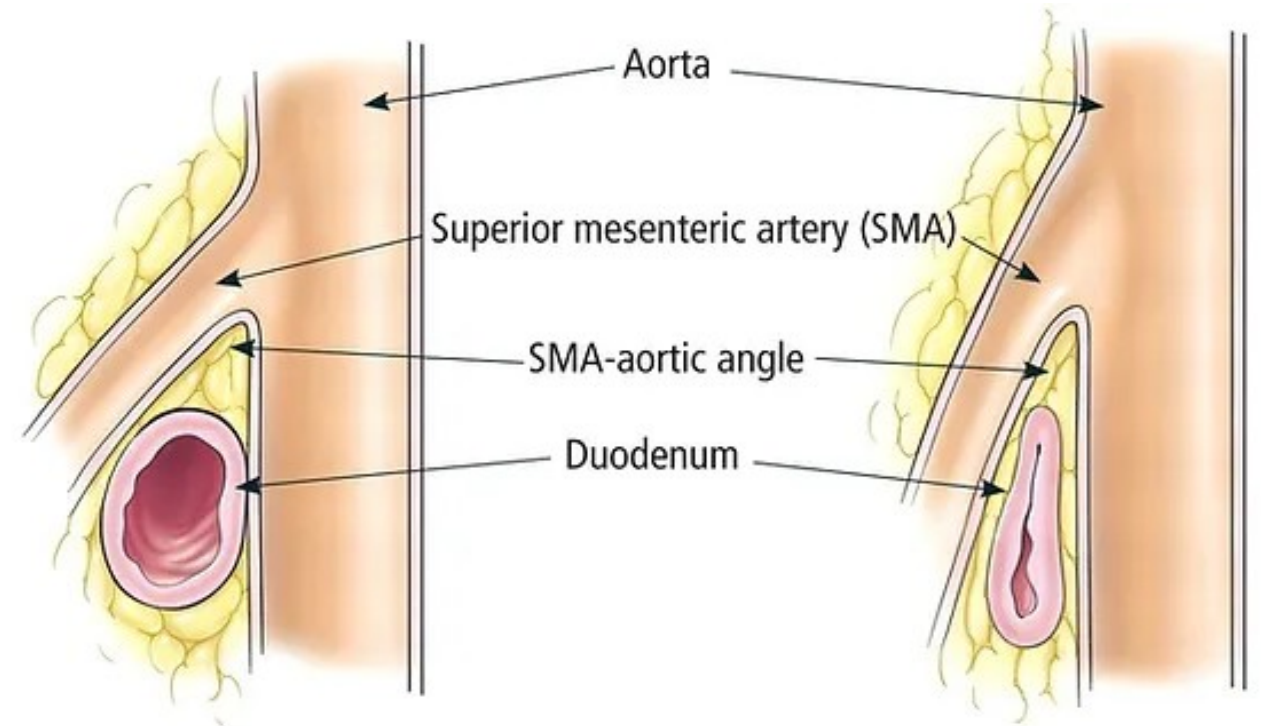
Compressed

Sometimes

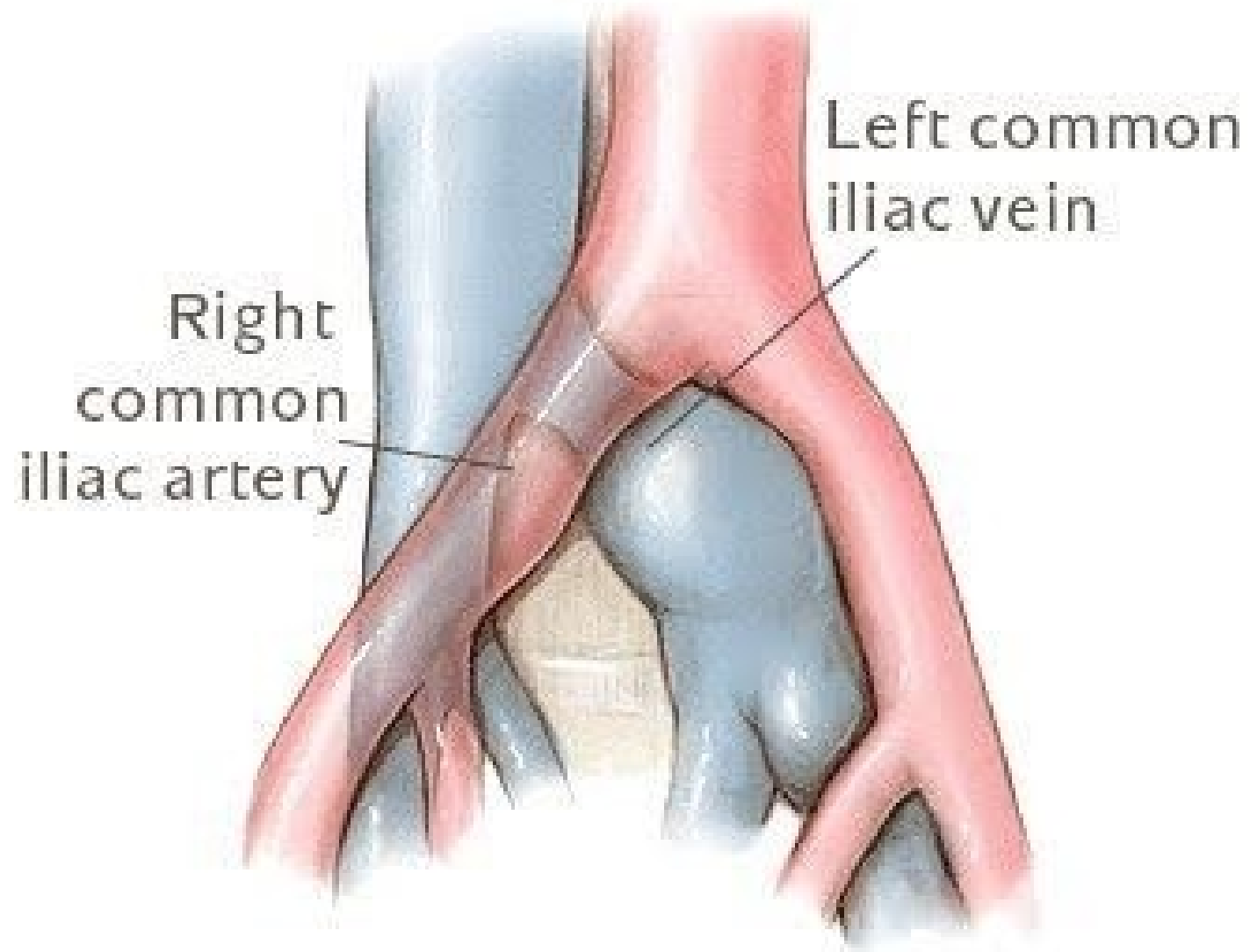
Compressing فاعل



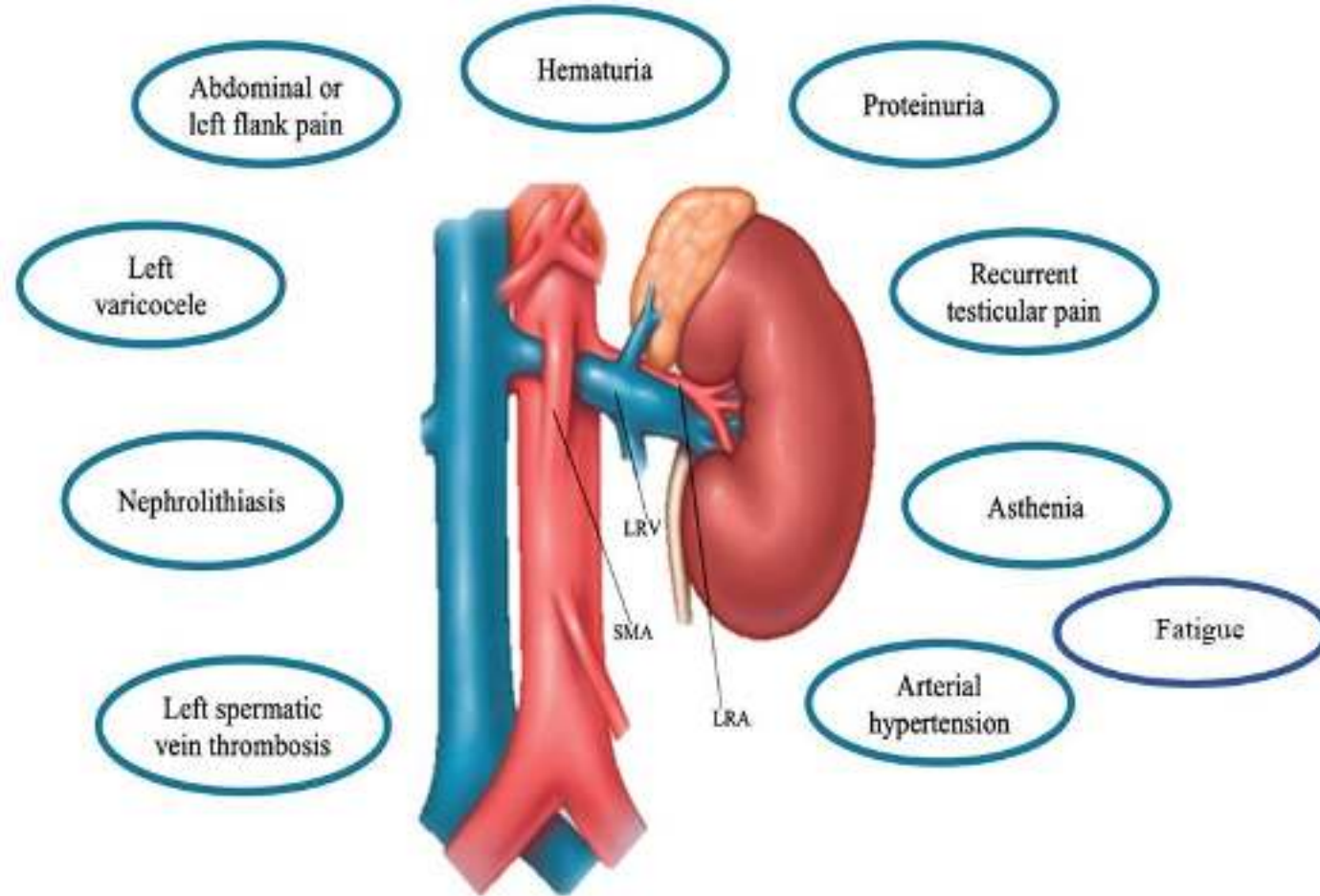
Compressing: (SMA syndrome)

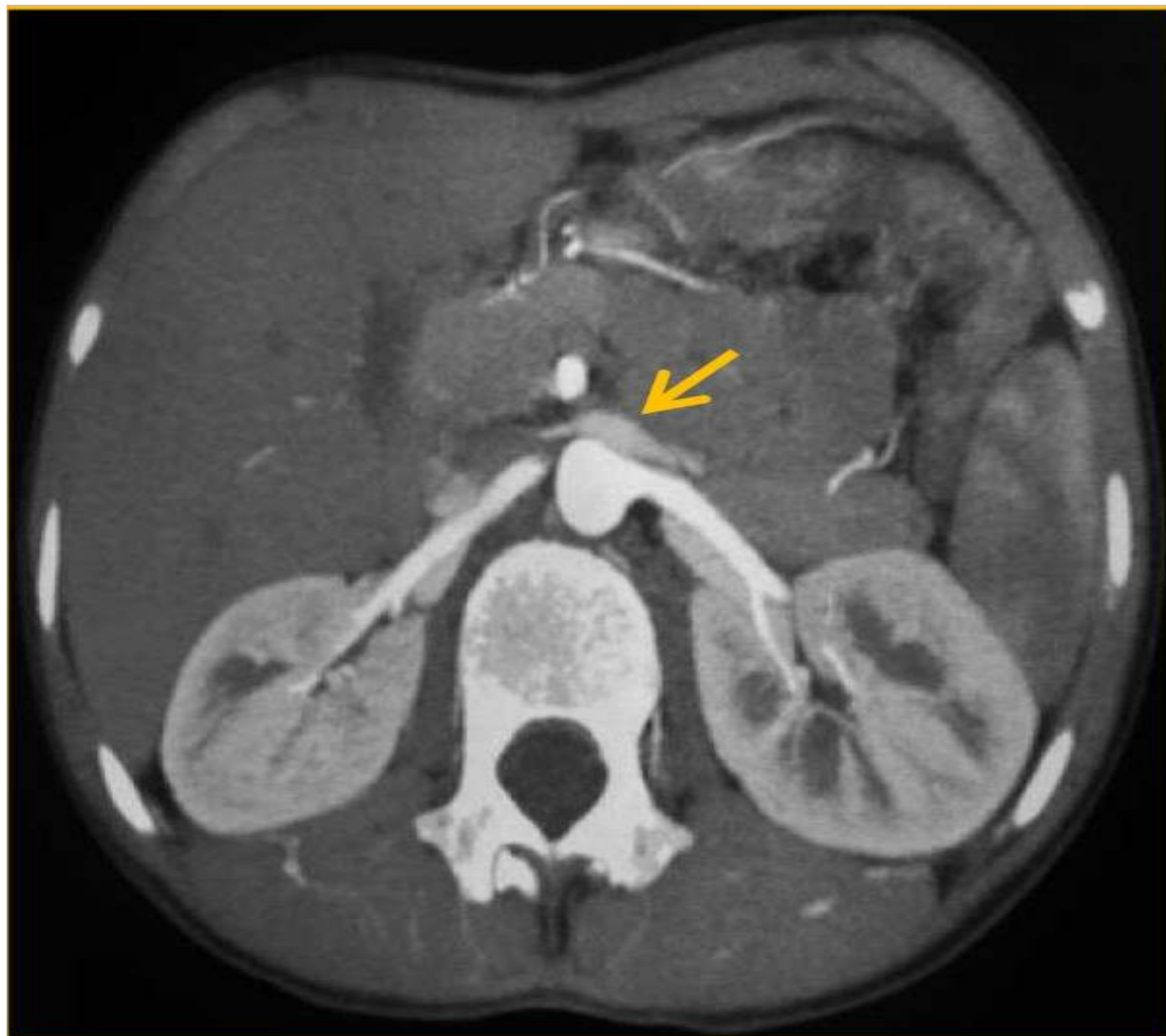


COMPRESSED/ COMPRESSING



COMPRESSED/ COMPRESSING





FOCUS



EXAMPLES

Vessels that are compressed

- Eagle syndrome,
- Thoracic outlet syndrome,
 - Dunbar syndrome
 - Nutcracker syndrome,
- May-Thurner syndrome, and
- Popliteal artery entrapment syndrome

A Normal styloid process in relation to nerves and arteries of the neck.



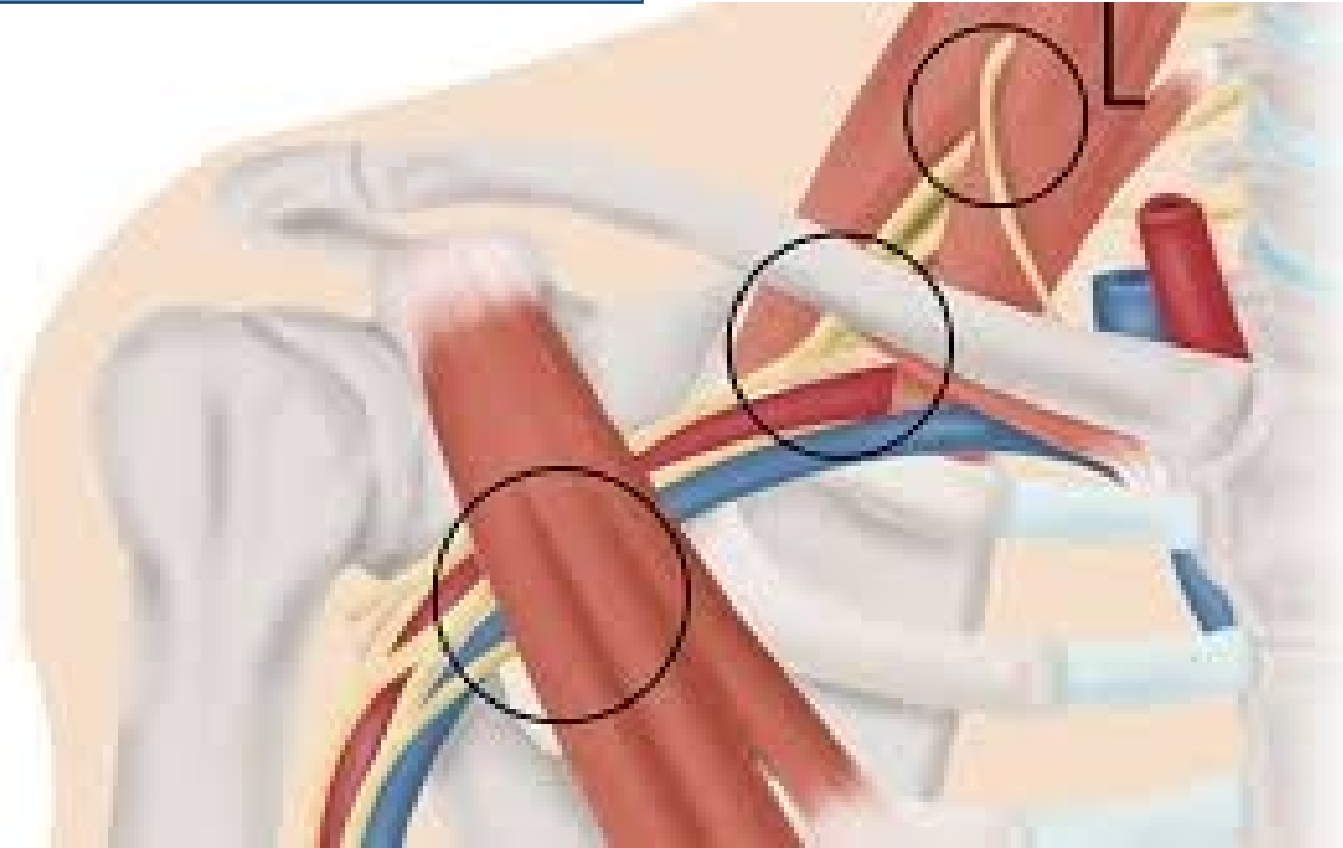
B An elongated styloid process.



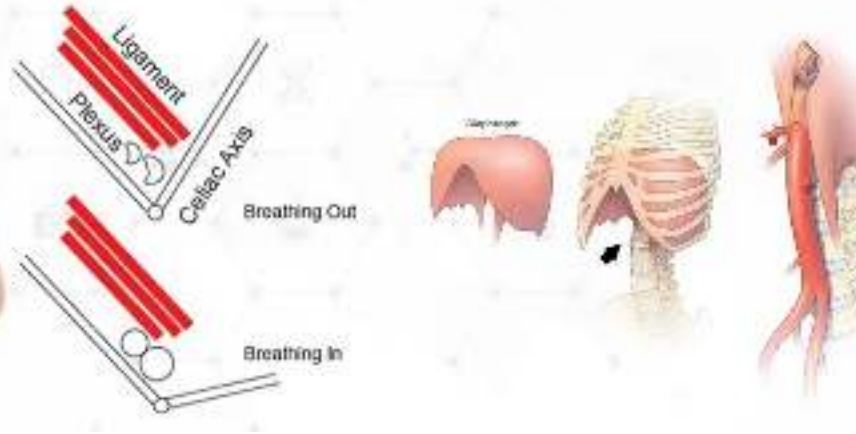
EAGLE Syndrome



Thoracic Outlet Syndrome



MEDIAN **ARCUATE** LIGAMENT SYNDROME (MALS)



SYMPTOMS



- flank pain
- hematuria (blood in urine)
- orthostatic intolerance
- abdominal pain
- orthostatic proteinuria
- varicocele
- tachycardia

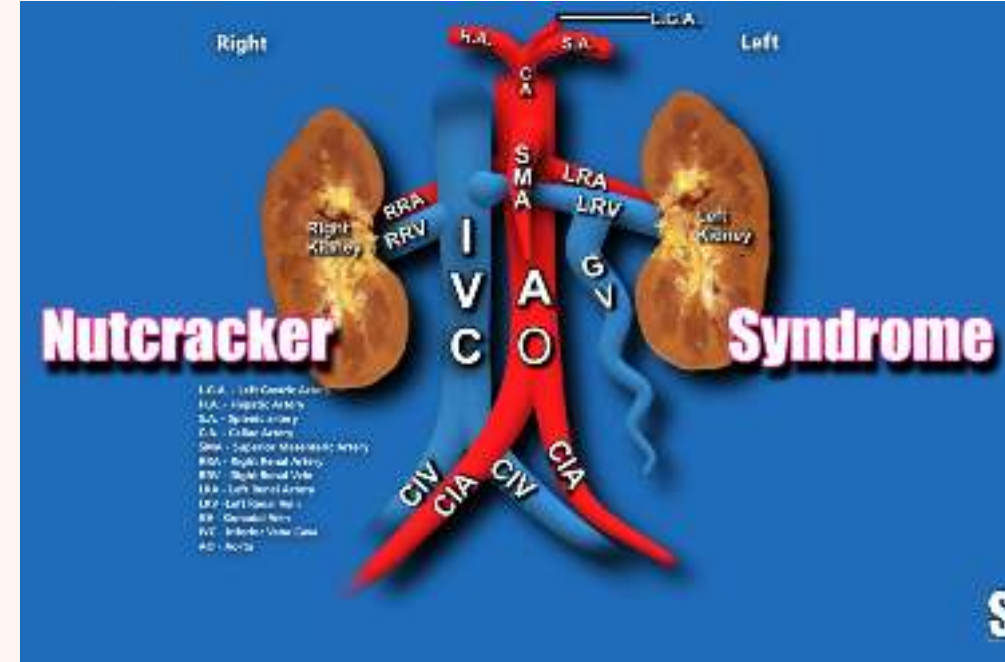


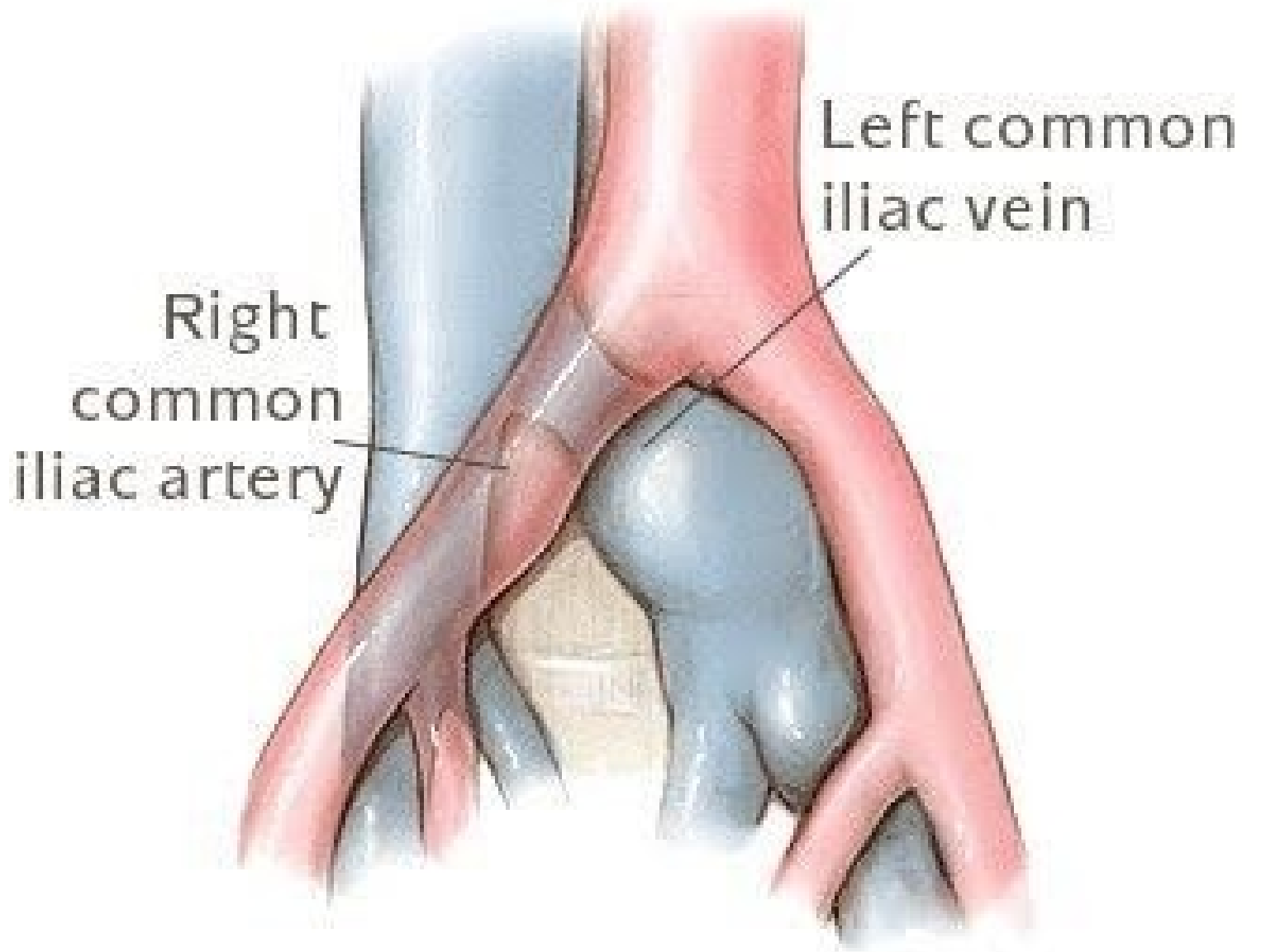
Note: symptoms may vary with position

ANTERIOR VS POSTERIOR

compression of left renal vein
between abdominal aorta and
superior mesenteric artery

compression of left renal vein
between abdominal aorta and
vertebral column

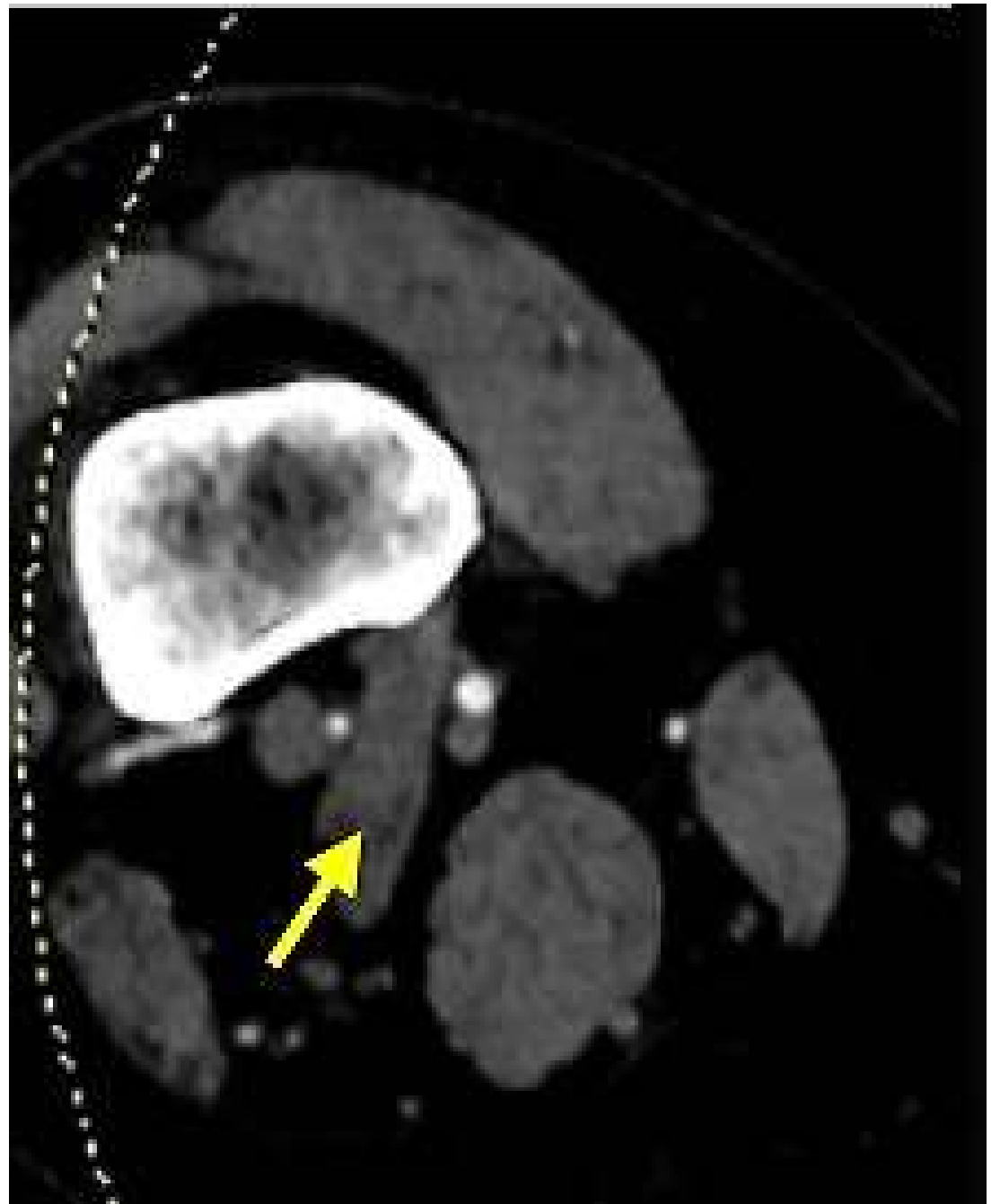


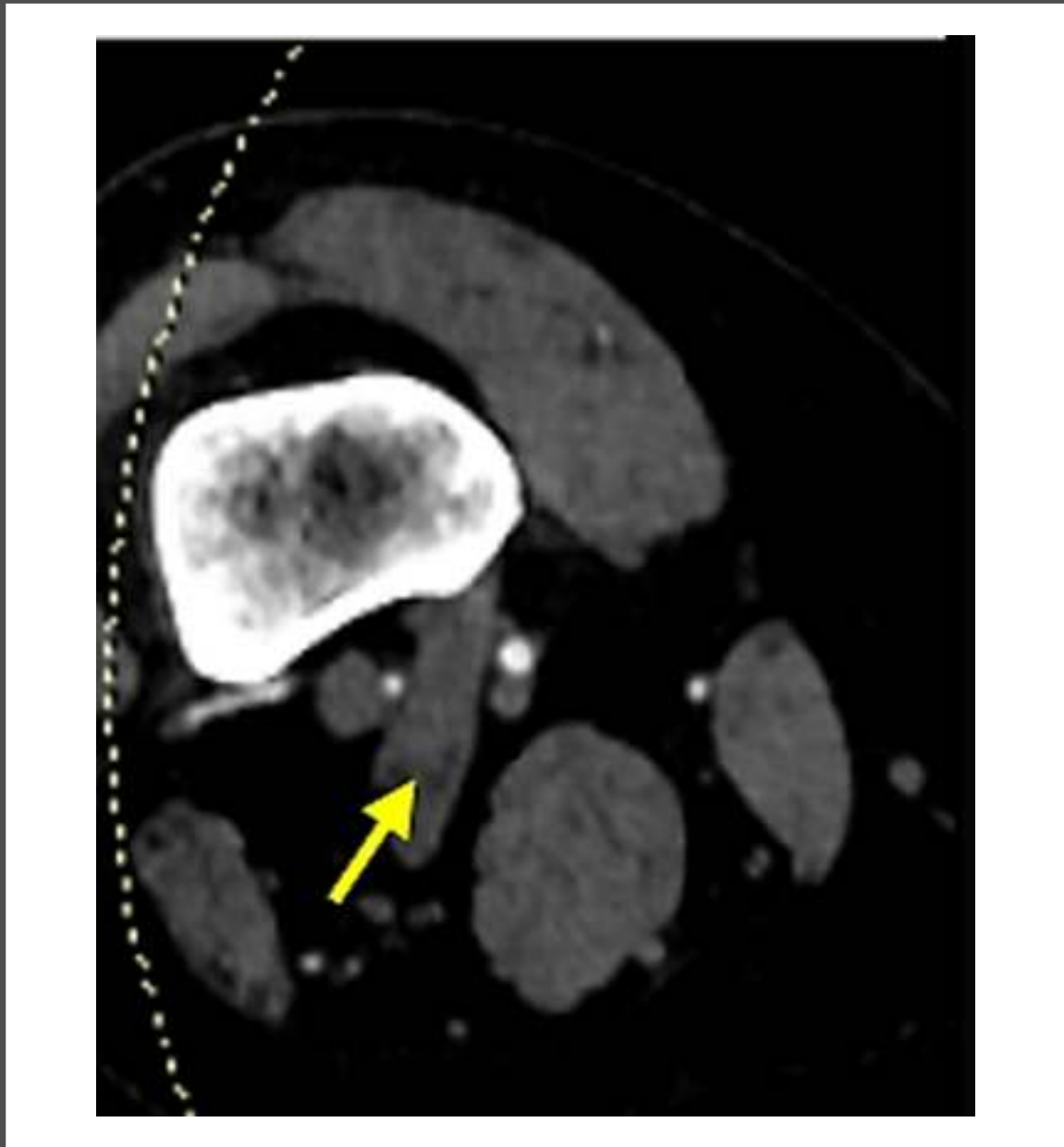
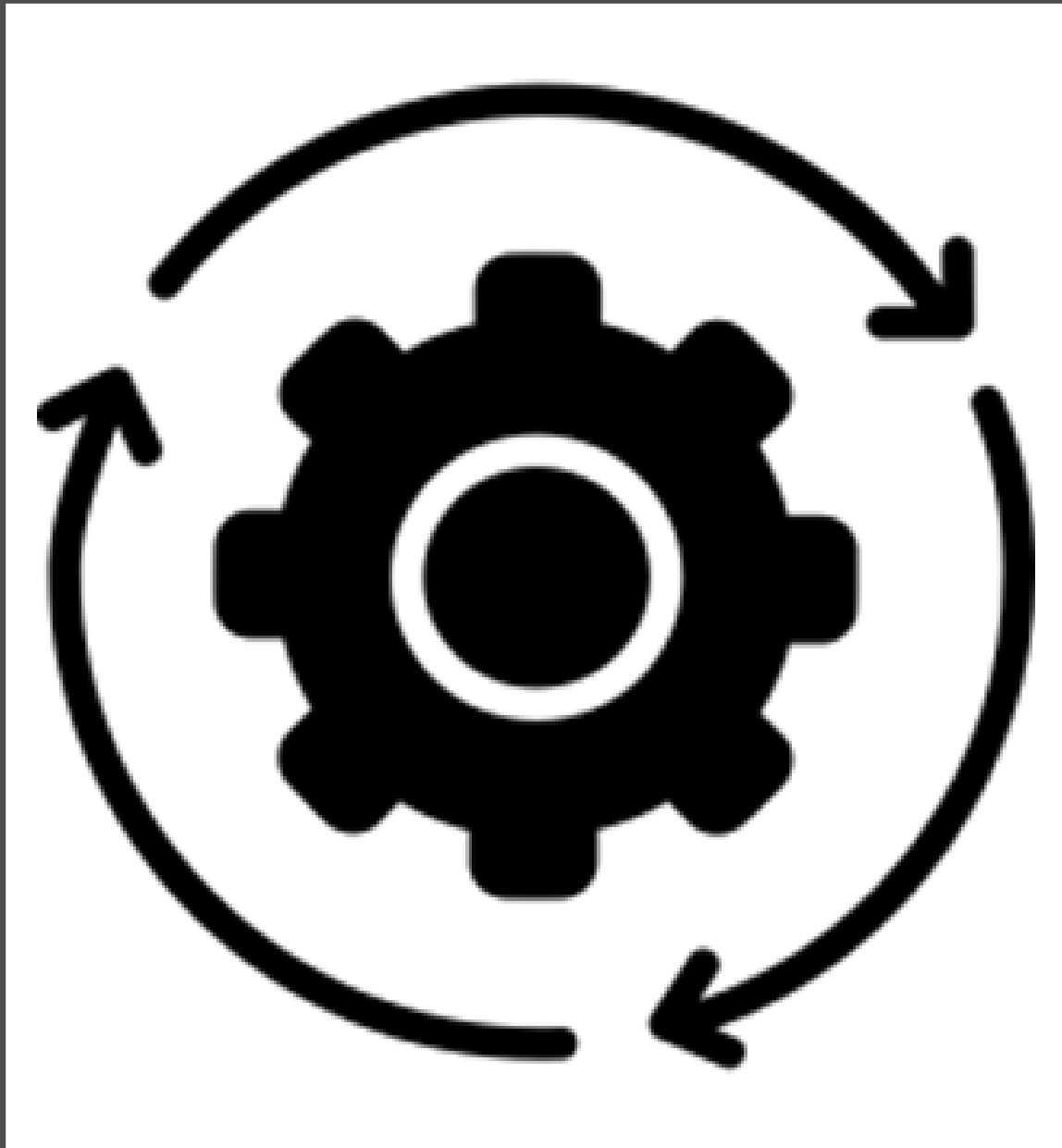


Popliteal
Artery
Entrapment
Syndrome
(PAES)



Slip
Slinging
Separating





Who?

A graphic representation of the word 'Who?'. The letter 'W' is orange, 'h' is green, 'o' is blue, and '?' is yellow. The text 'who?' is written in white lowercase letters across the 'W'.

What?

A graphic representation of the word 'What?'. The letter 'W' is blue, 'h' is orange, 'A' is yellow, 't' is blue, and '?' is green. The text 'What?' is written in white uppercase letters across the 'h'.



AND FOOT



**(CECS) CHRONIC
EXERTIONAL COMPARTMENT
SYNDROME**





Do all PAES need surgery?



If surgery is planned is it enough to cut the compering muscle fibers?



Verify

Verify your diagnosis 1st .

Try

Try conservative measures 1st.

Justify

Justify your management plan and not be just concerned by the 1ry pathology and miss the 2ry one.



M

A

Li

Syndrome



C

A

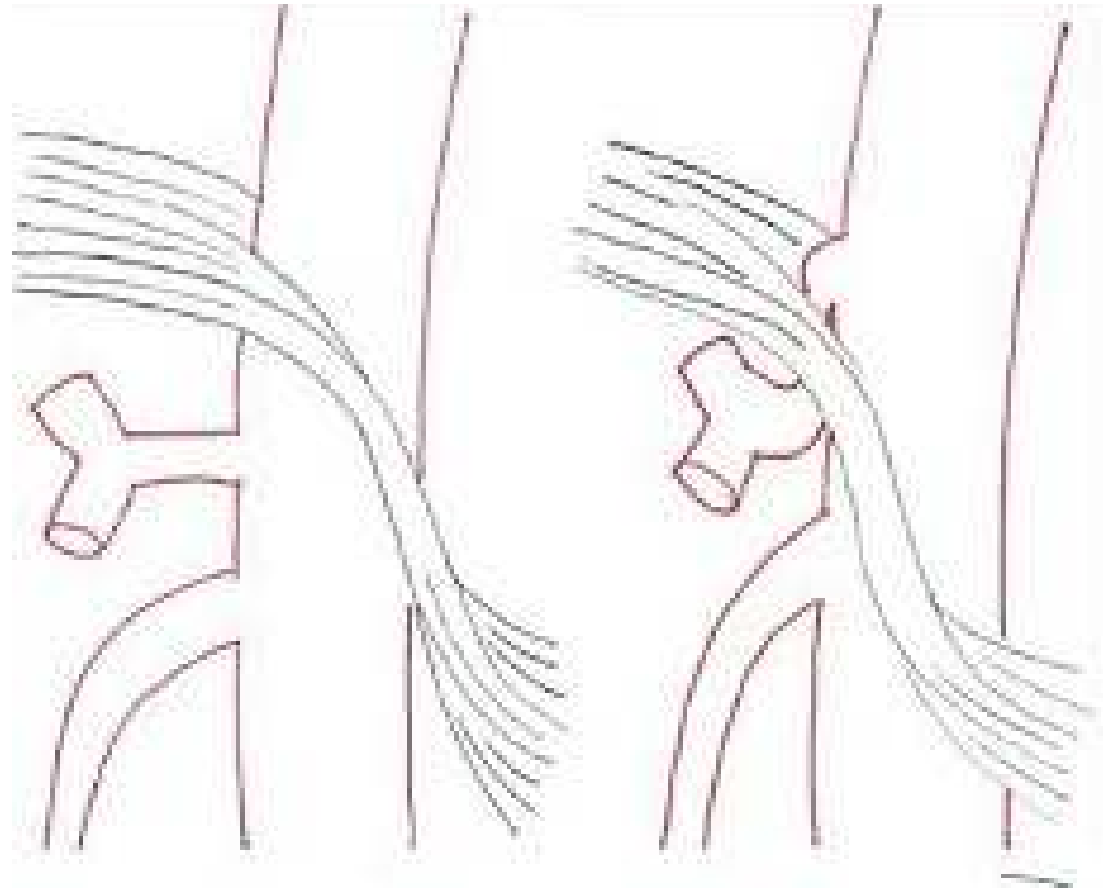
C

Syndrome



Dunbar Syndrome

Harjola-Marable syndrome

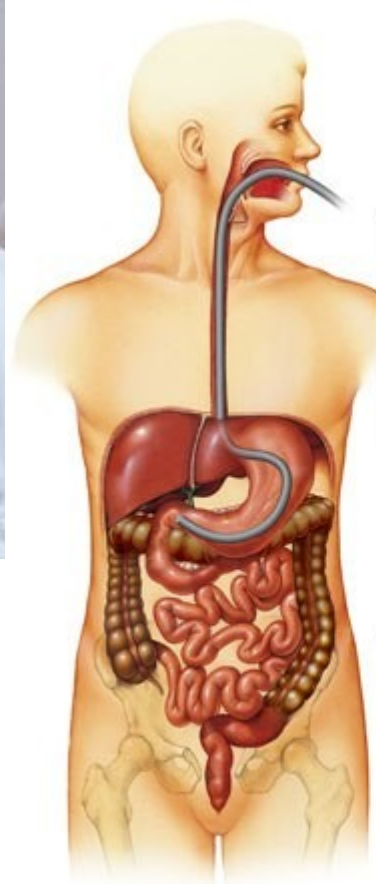


One
of Two
Things

- Compression of the **celiac trunk** **OR** the **sympathetic ganglia**.
- Due to high origin of the **celiac artery** **OR** **low set MAL**.
- It occurs **only during expiration** **OR** **all through** .

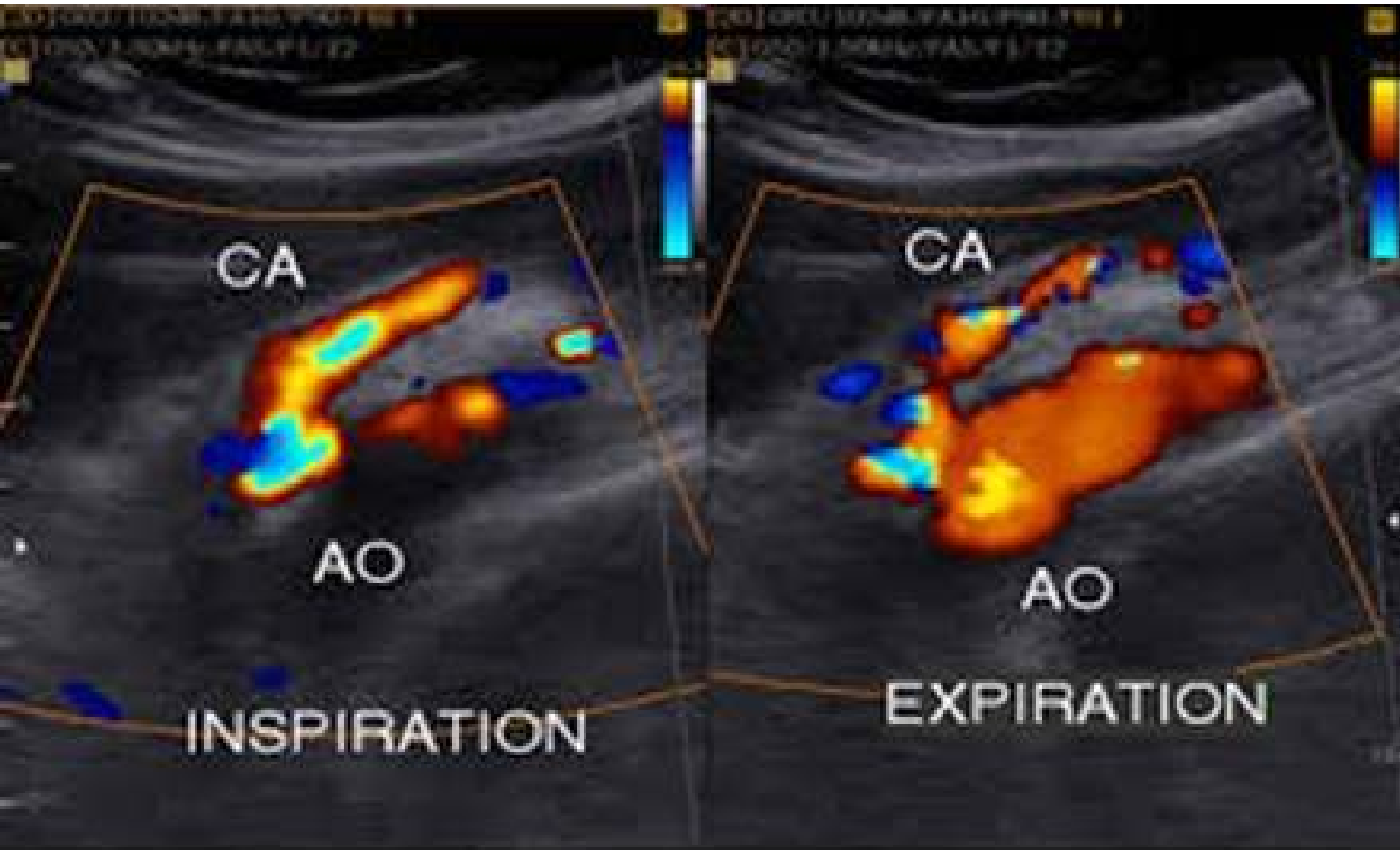


Post prandial pain
Vomiting
Weight loss



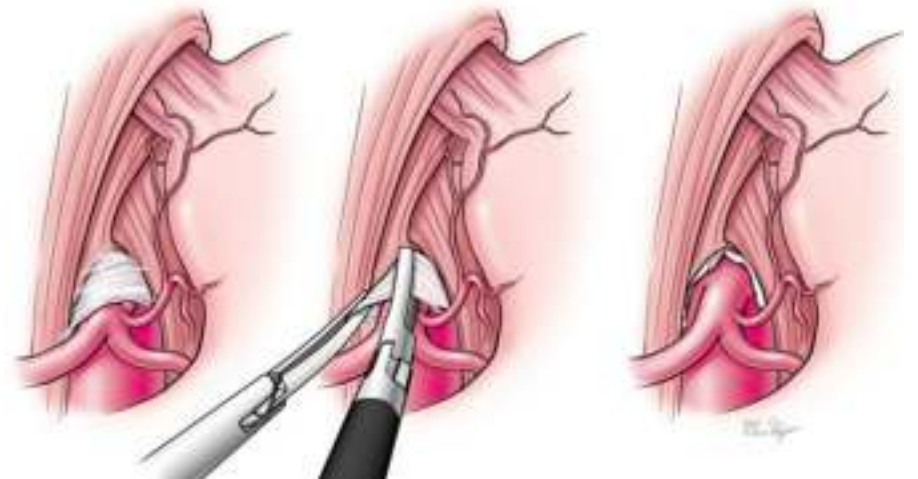


1. **Proximal stenosis** of CA with post **stenotic dilatation**.
2. **Indentation** on superior aspect of celiac artery
3. **Hook** shaped contour of celiac artery.



Treatment modalities for MAL syndrome

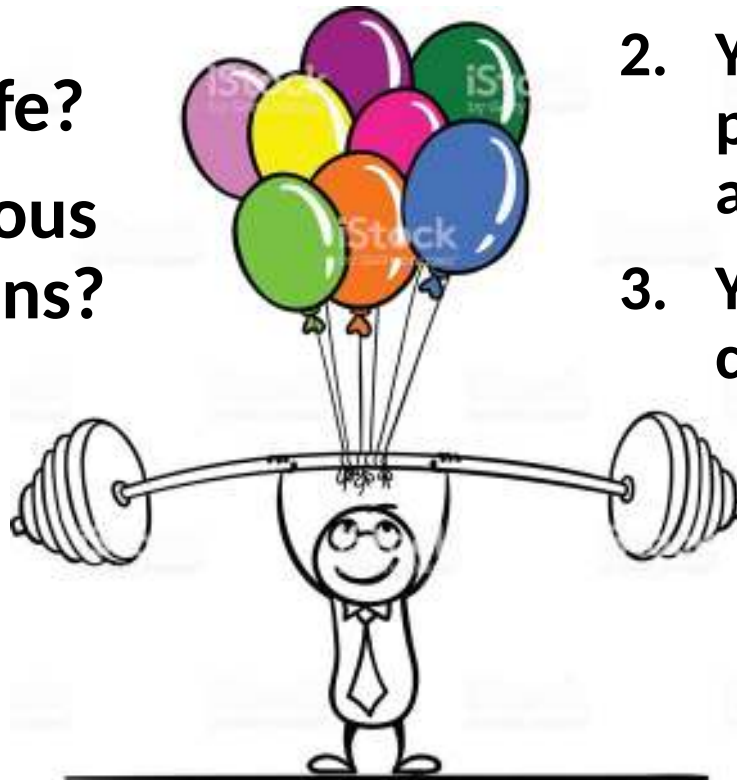
- Conservative ttt.
- Open surgical release.
- Laparoscopic release.
- Robotic assisted laparoscopic release.
- PTA and stenting.
- Rarely bypass is indicated.



“Laparoscopic release of MAL”

Is it an easy task?

1. You did it before?
2. You saw it before life?
3. You know how serious are the complications?



1. You know how to do it?
2. You will be able to do it perfect as you have advanced lap skills?
3. You are ready to manage if complications happened?





7



1. Preparation
2. Access.
3. Approach.
4. Target area.
5. Leader to the celiac trunk.
6. Leader to the MAL
7. Safest way to dissect & release.

failing
to prepare

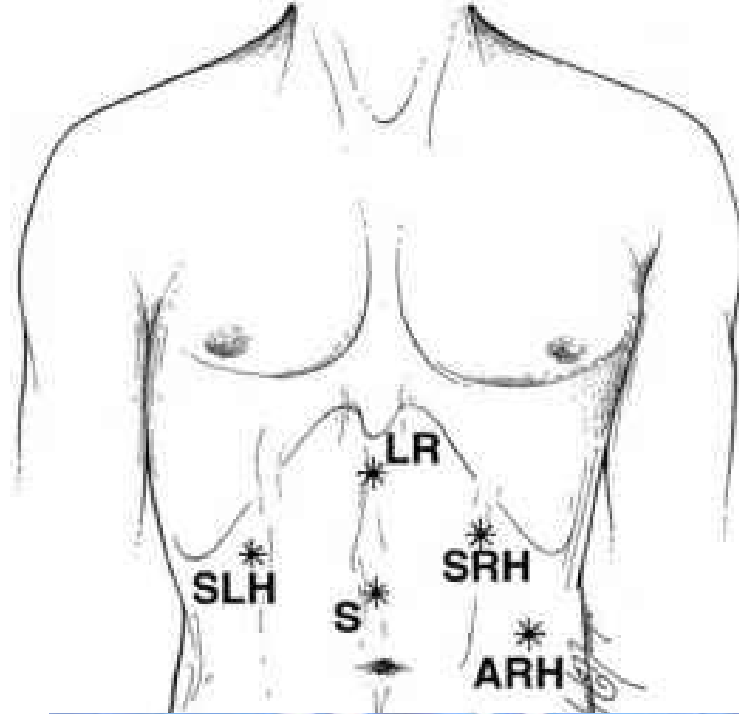
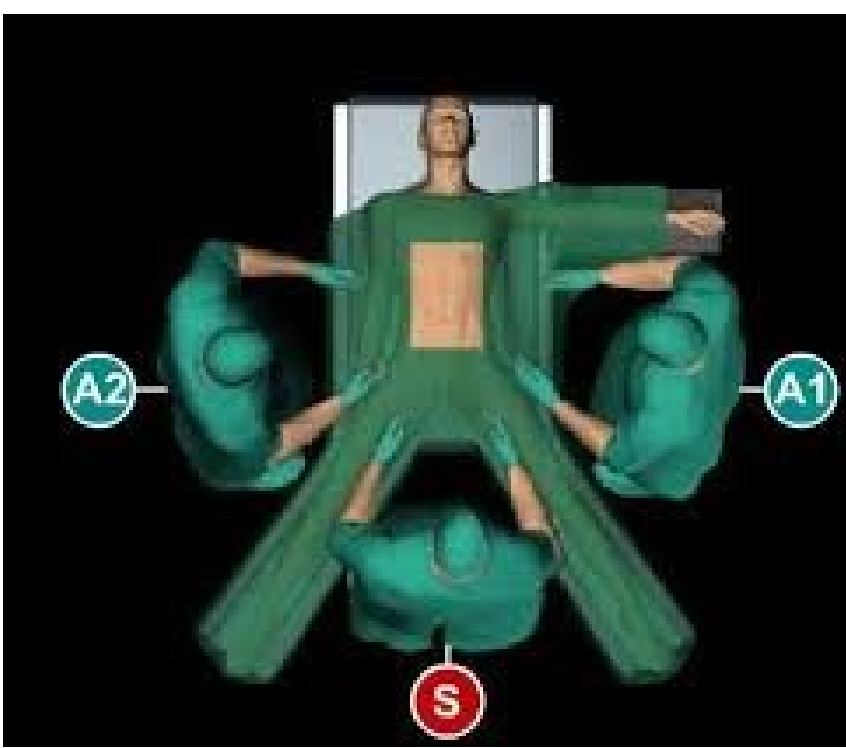


the world's no.1 e. learning minimally invasive surgery website

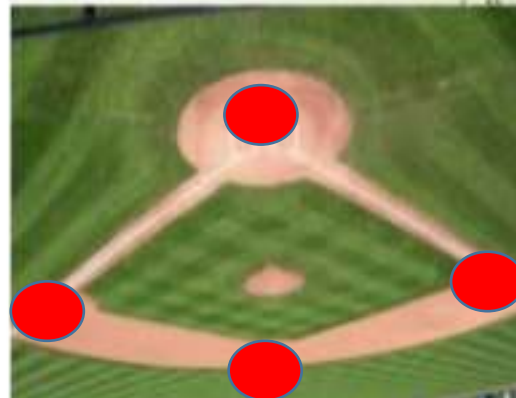
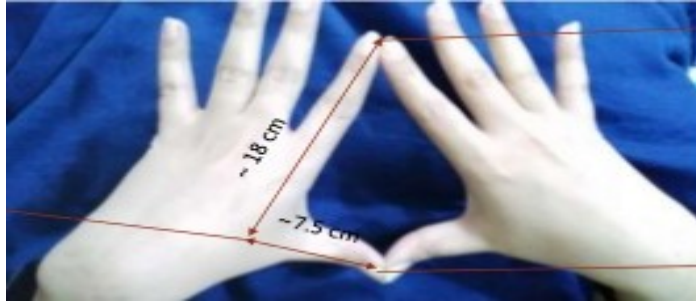


Access Management





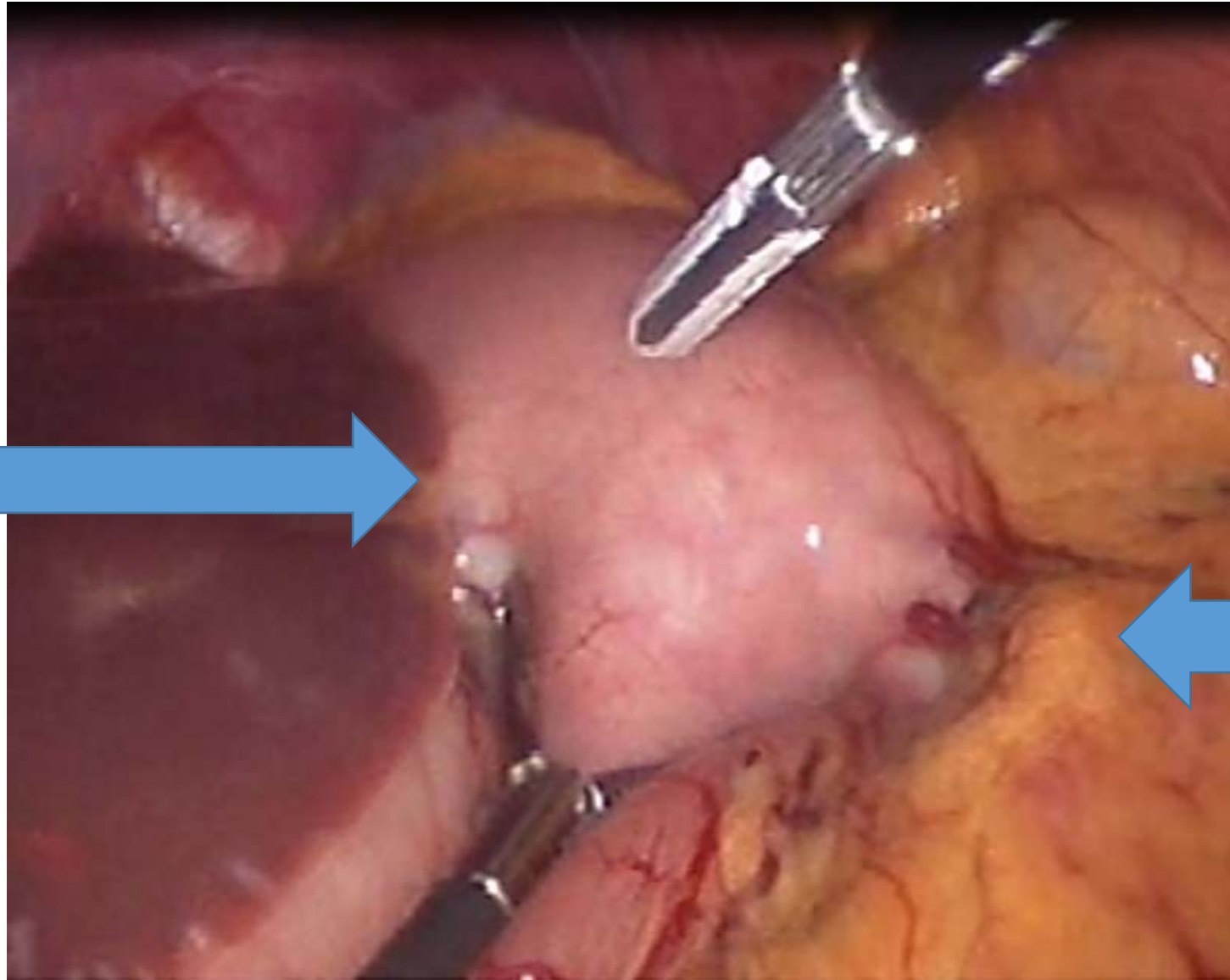
Before port insertion you have to know well...??????



Approach



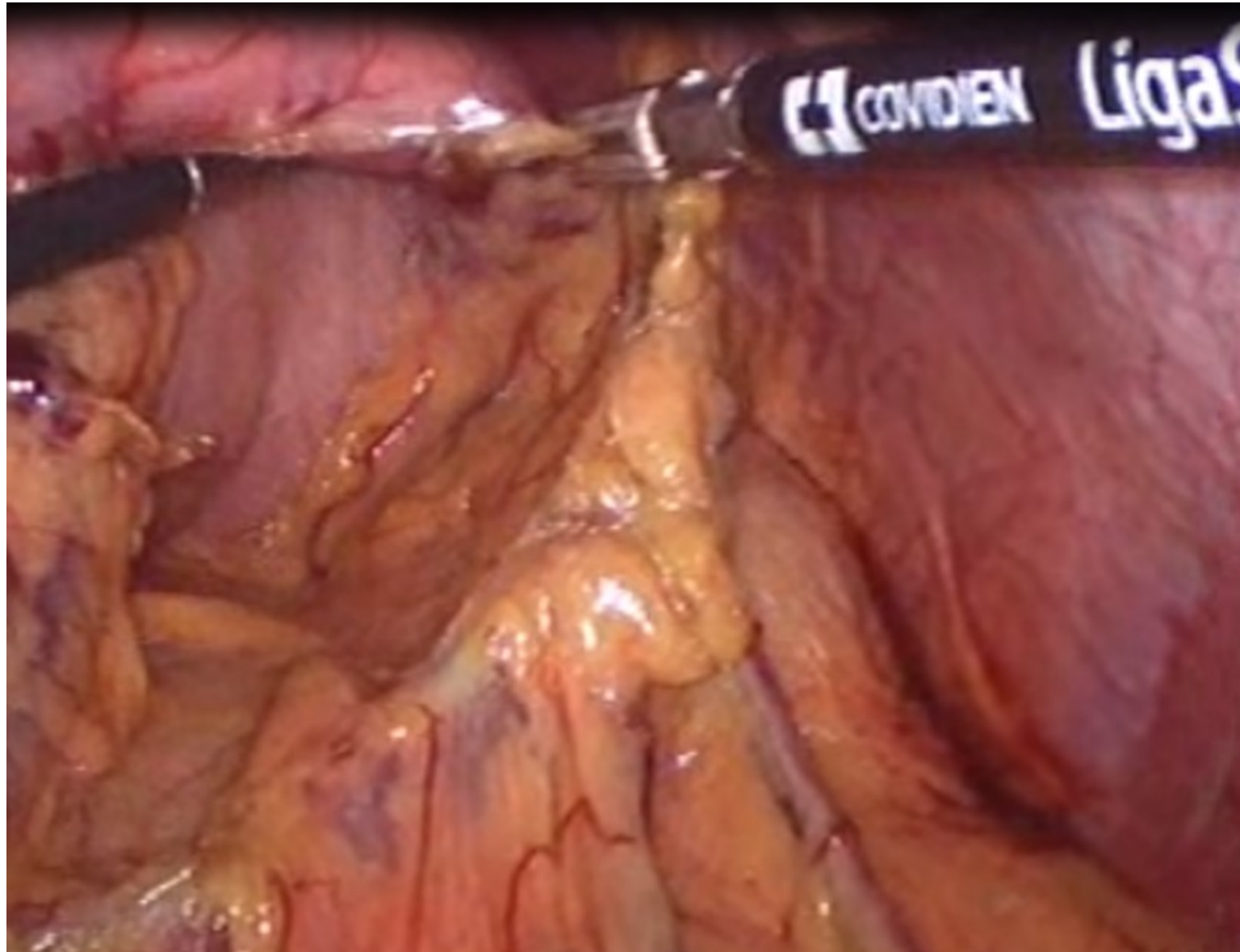
**Your target is posterior to the lesser sac above the pancreas
so we have two approaches**



Pars flaccida

**Gastro-colic
ligament**

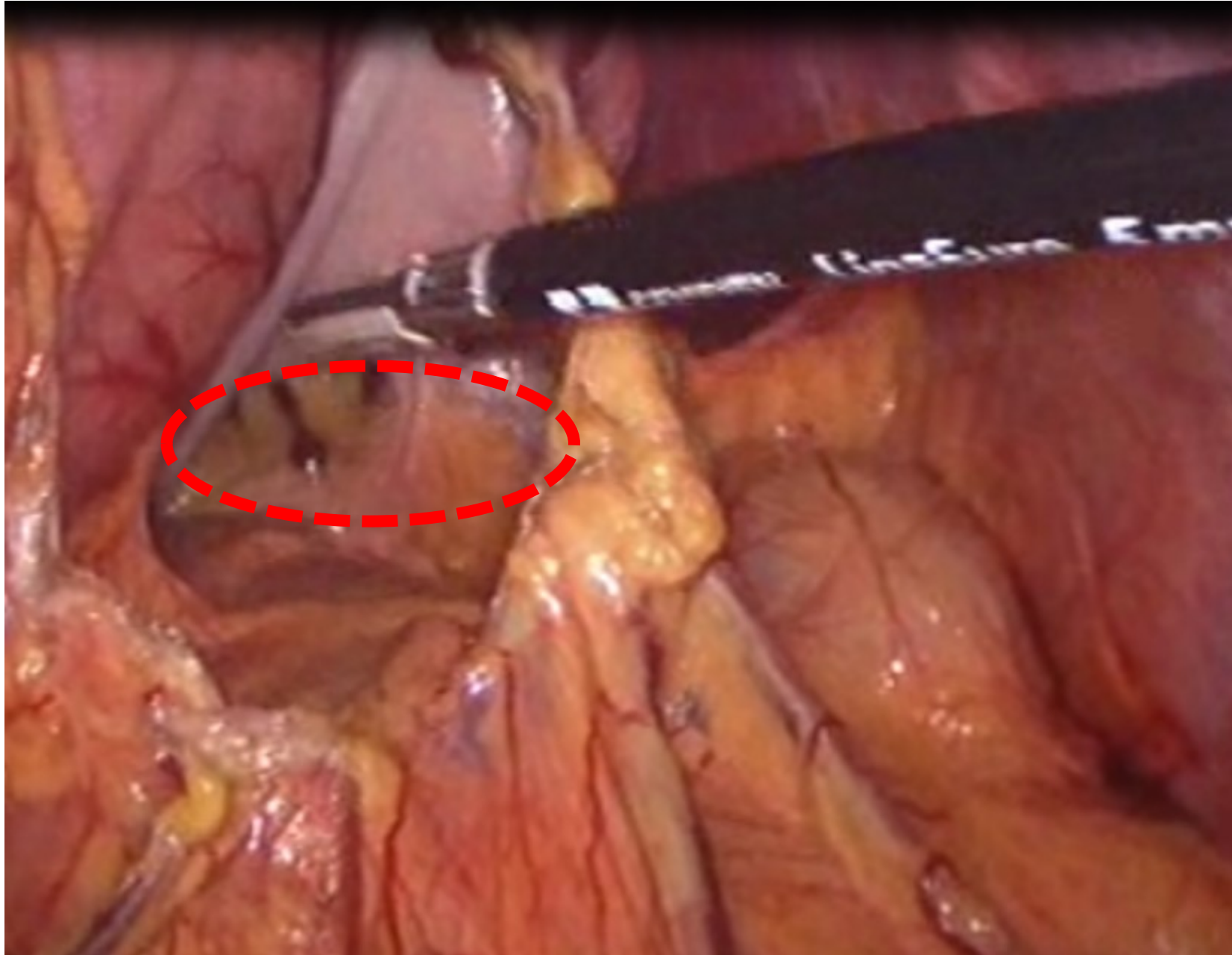
Going to the lesser sac through the gastro-colic ligament

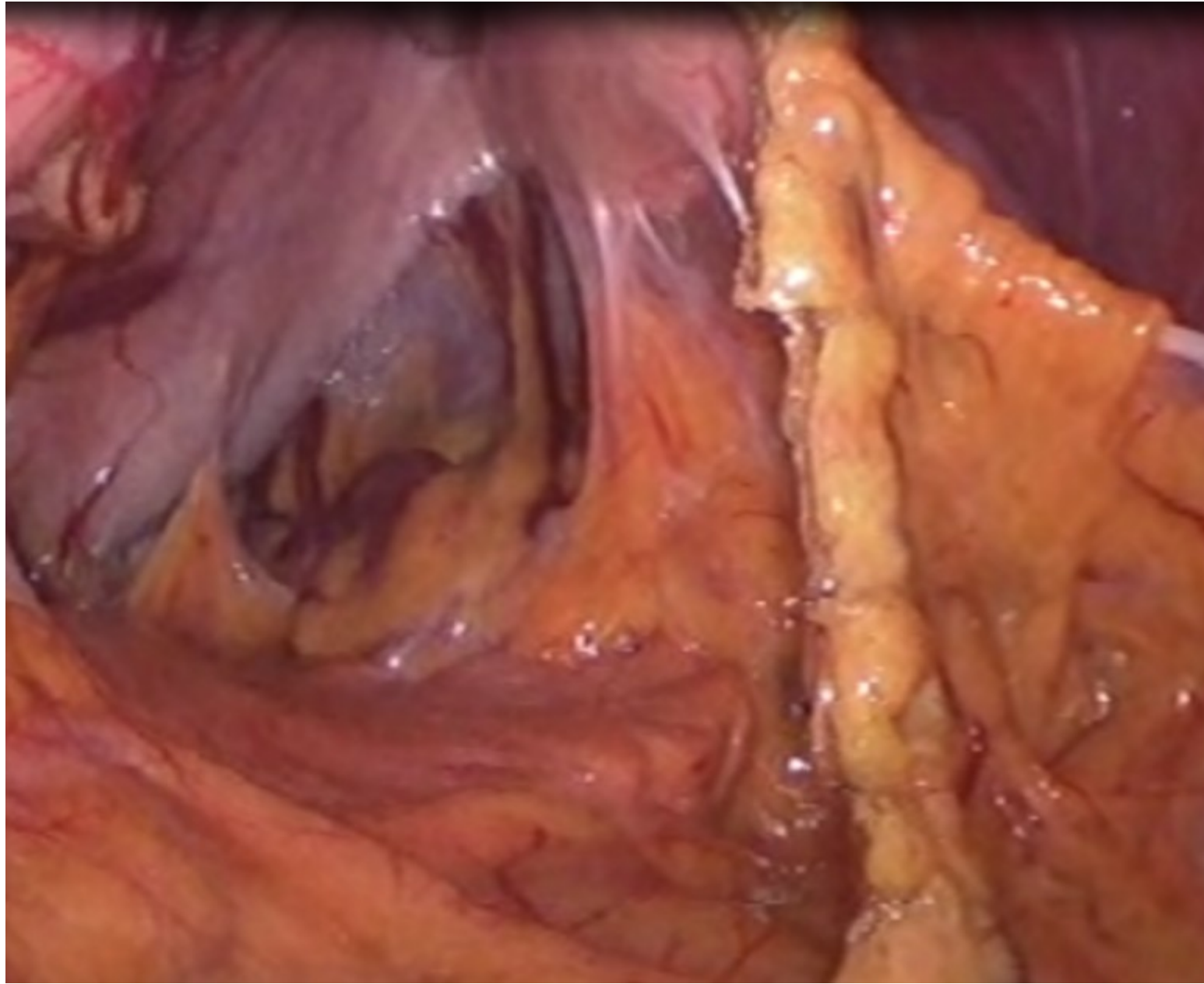


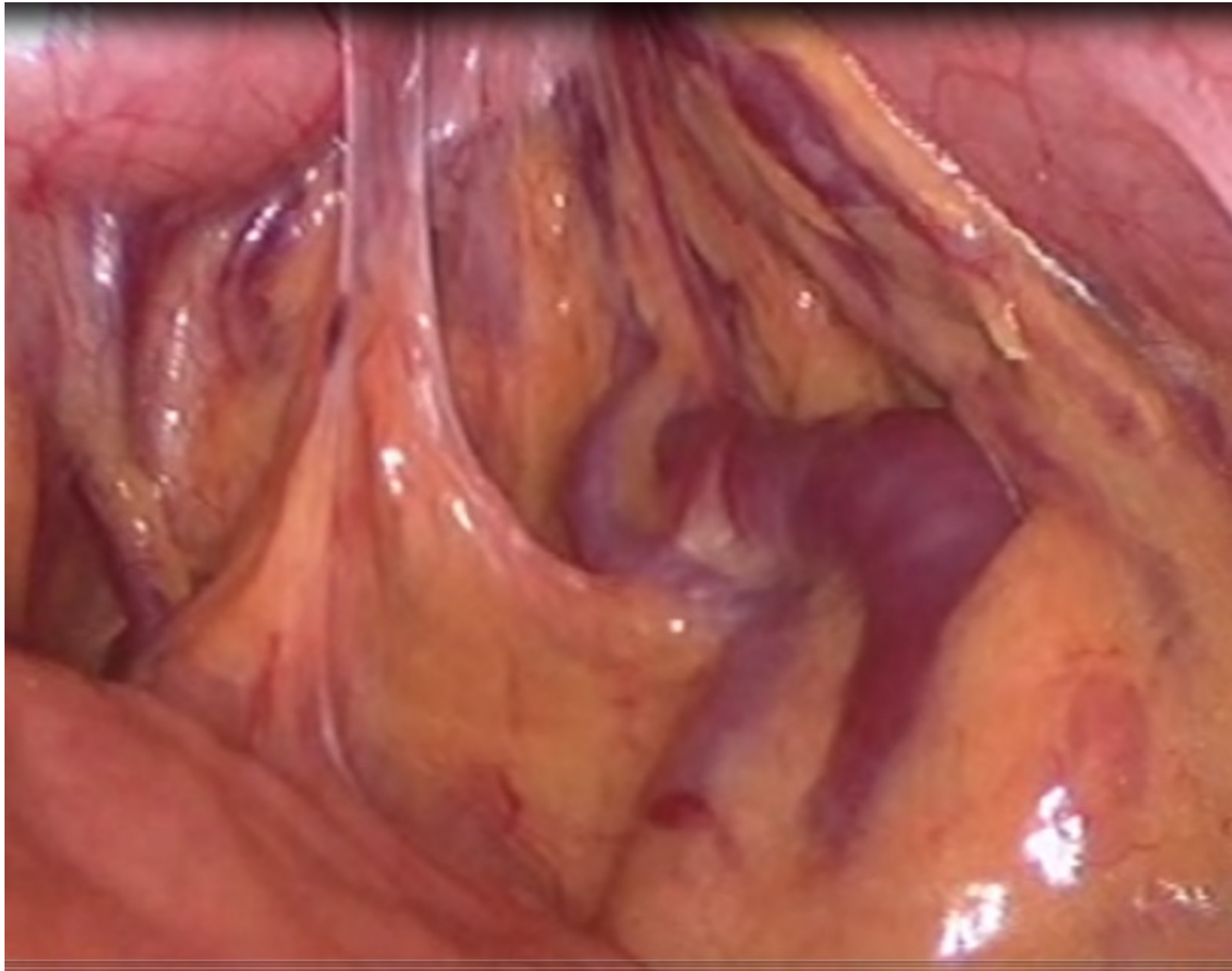


TARGET AREA

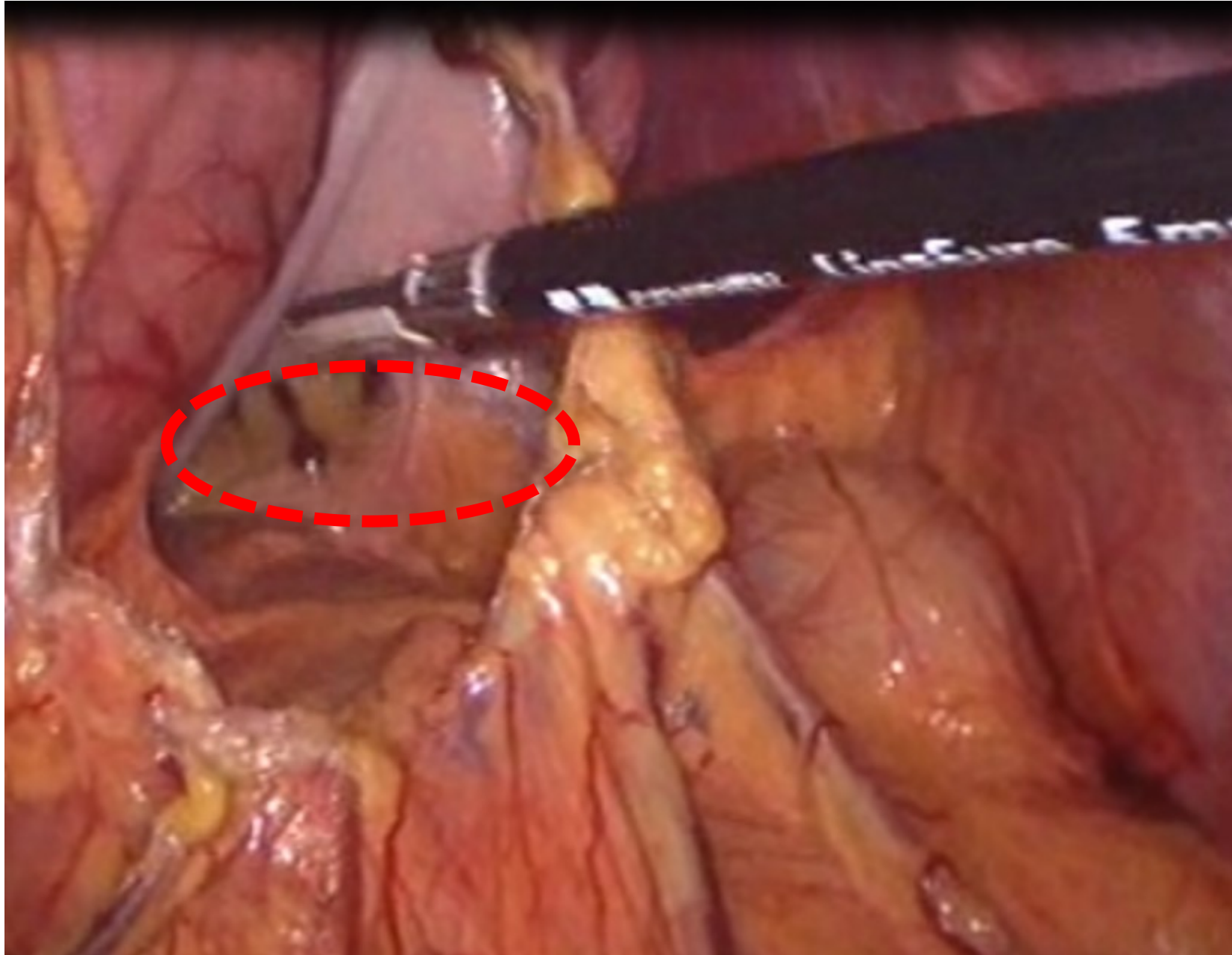




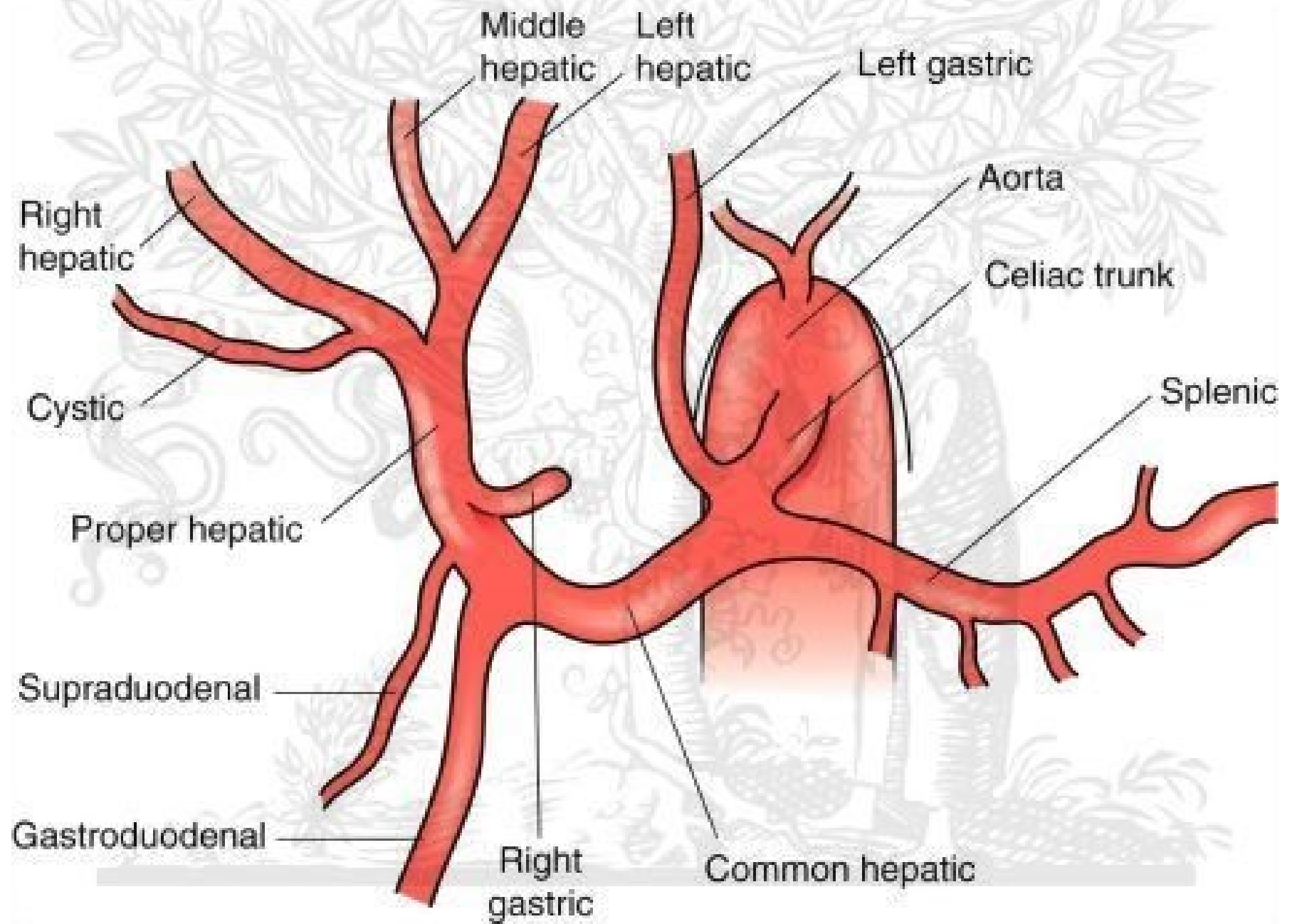


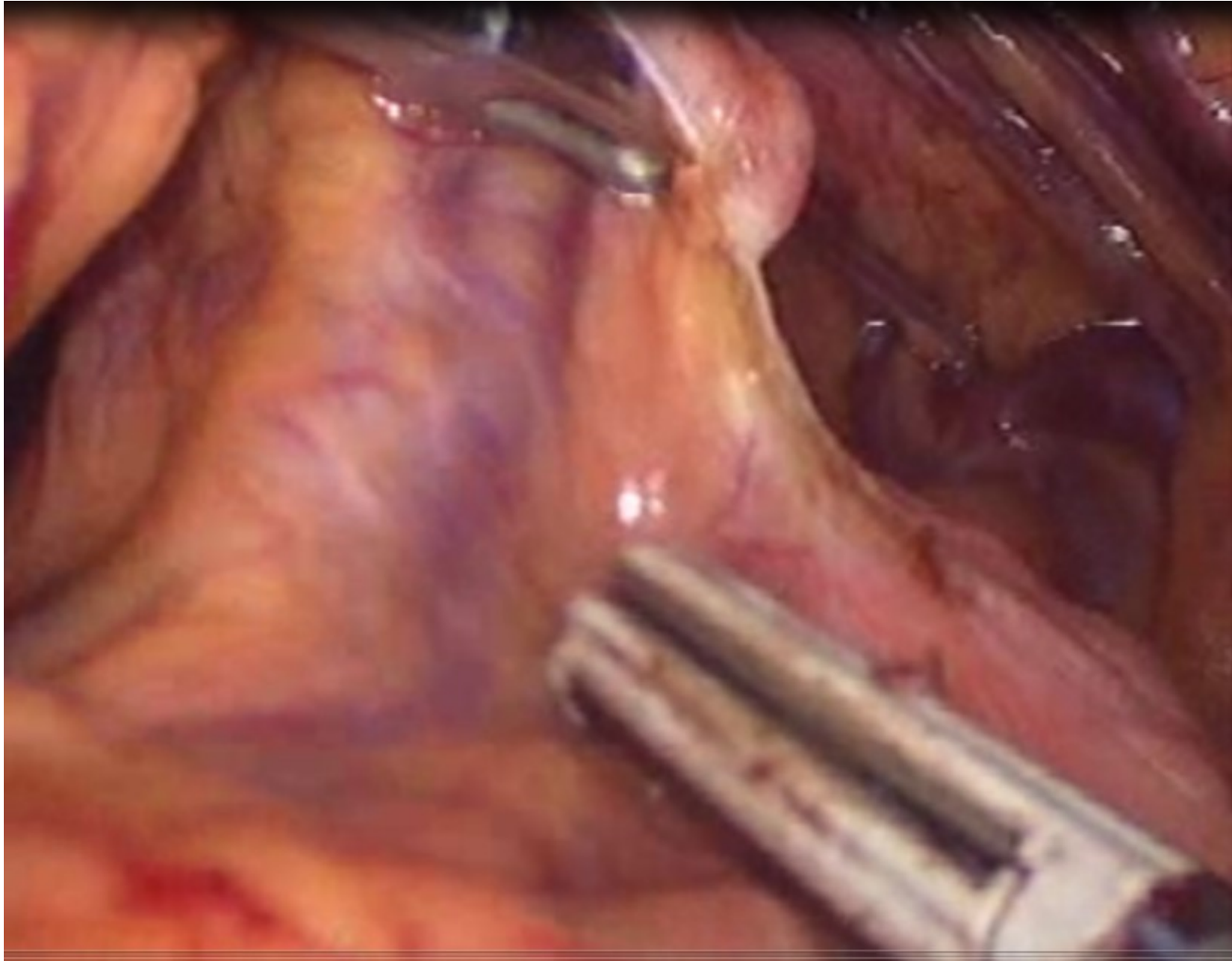


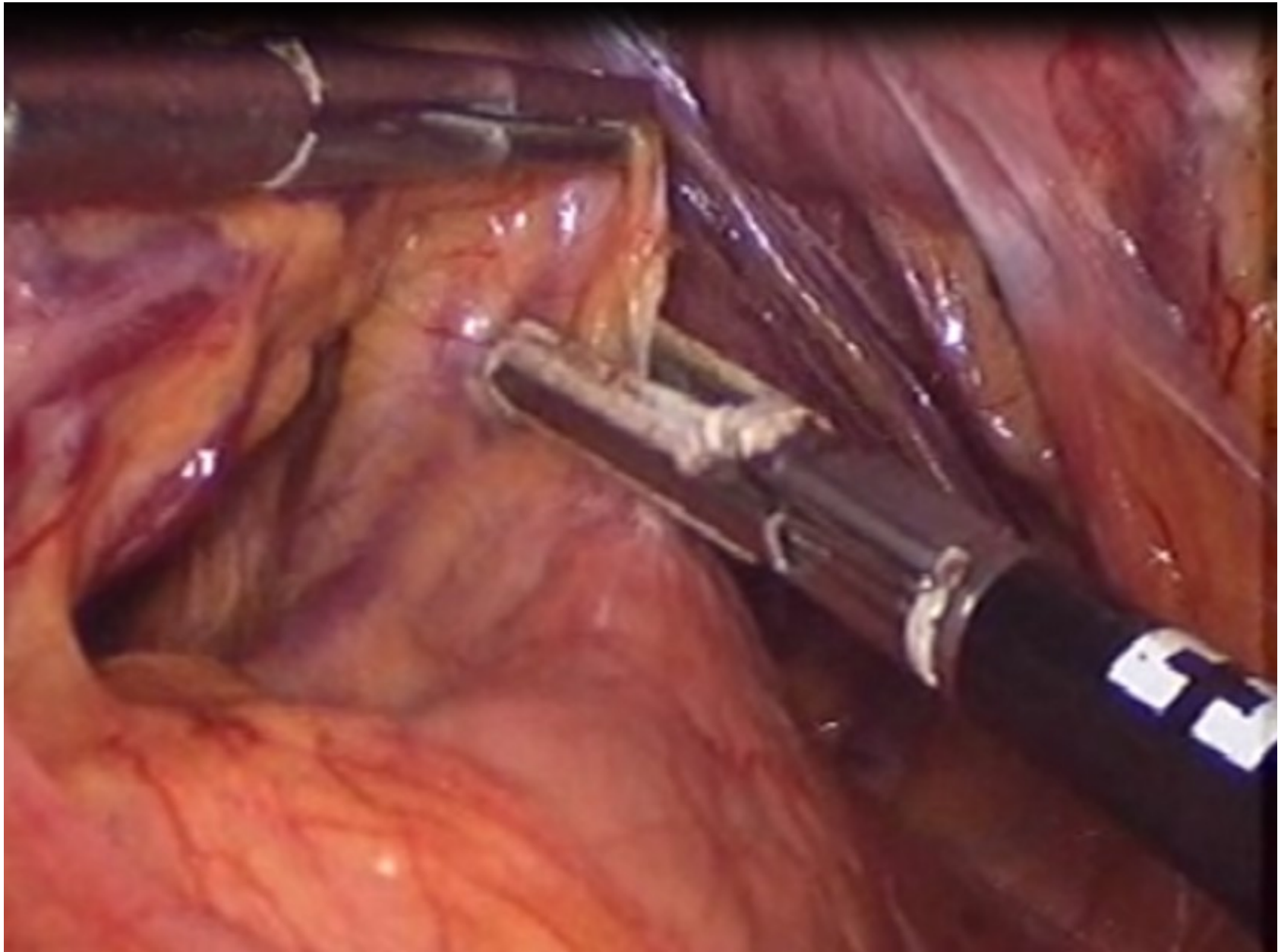


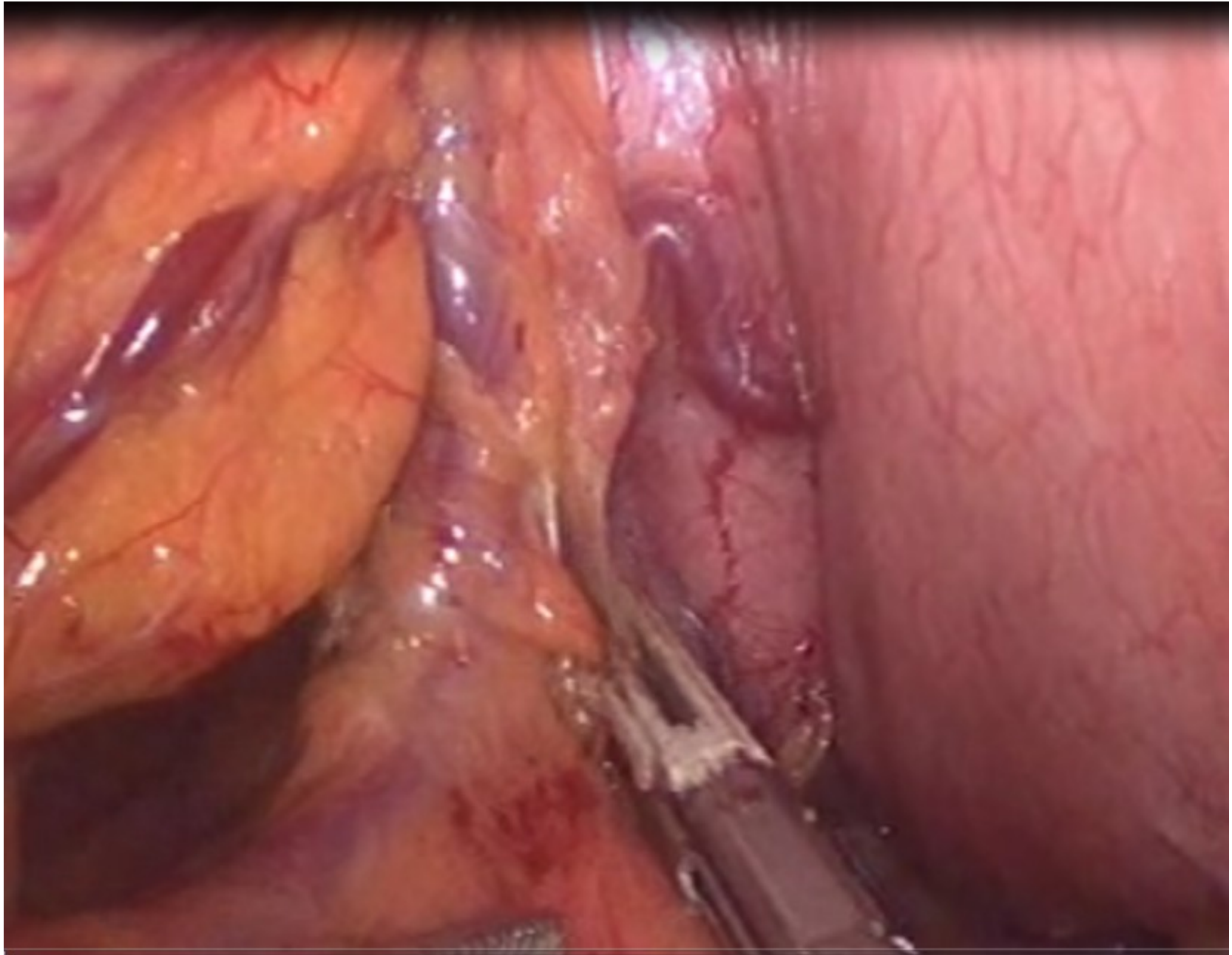












LEADER



WORK

Diaphragm

Right crus ●

-forms esophageal hiatus

Left crus ●

Median arcuate ligament —

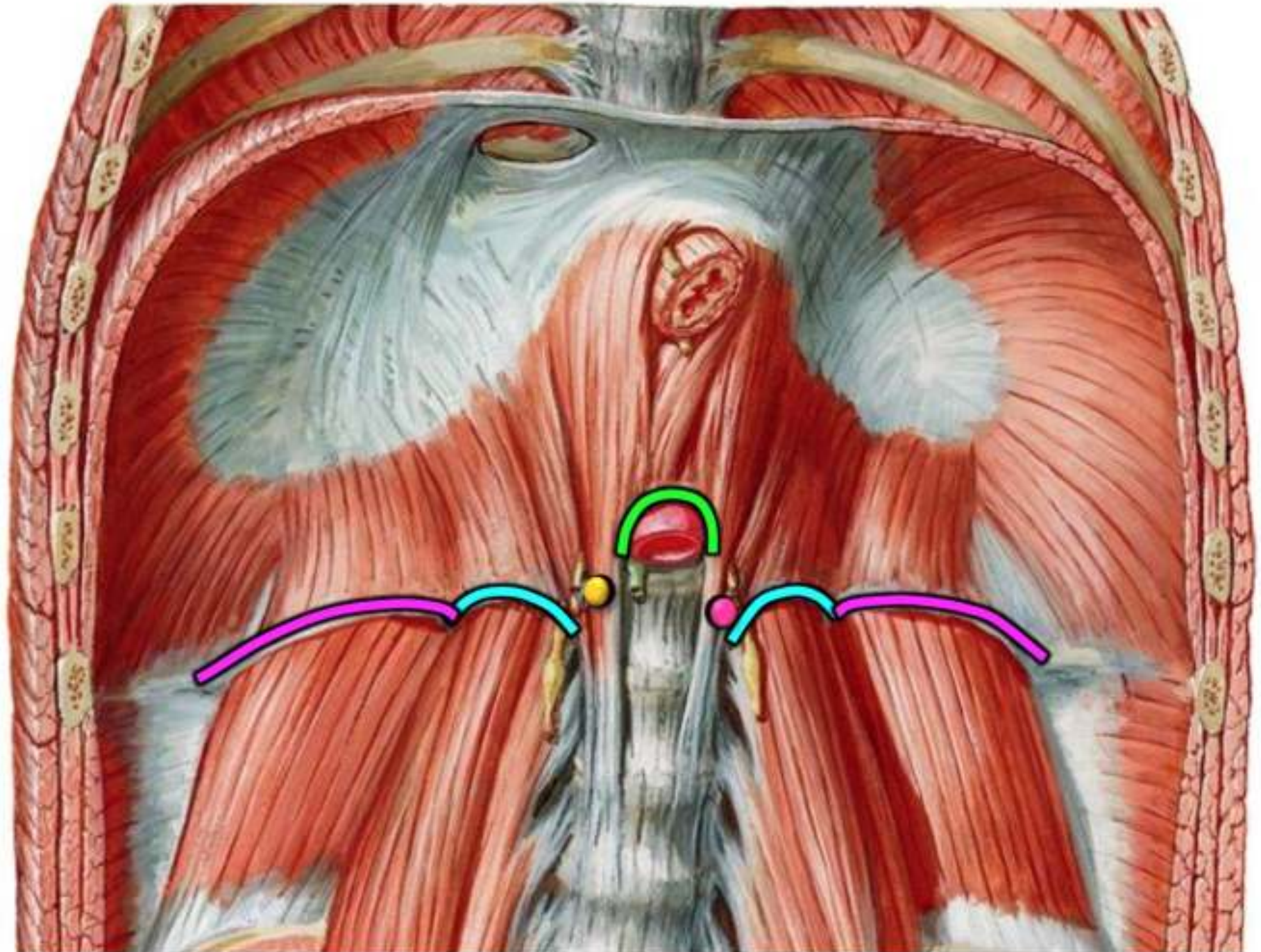
-anterior border of the aortic hiatus

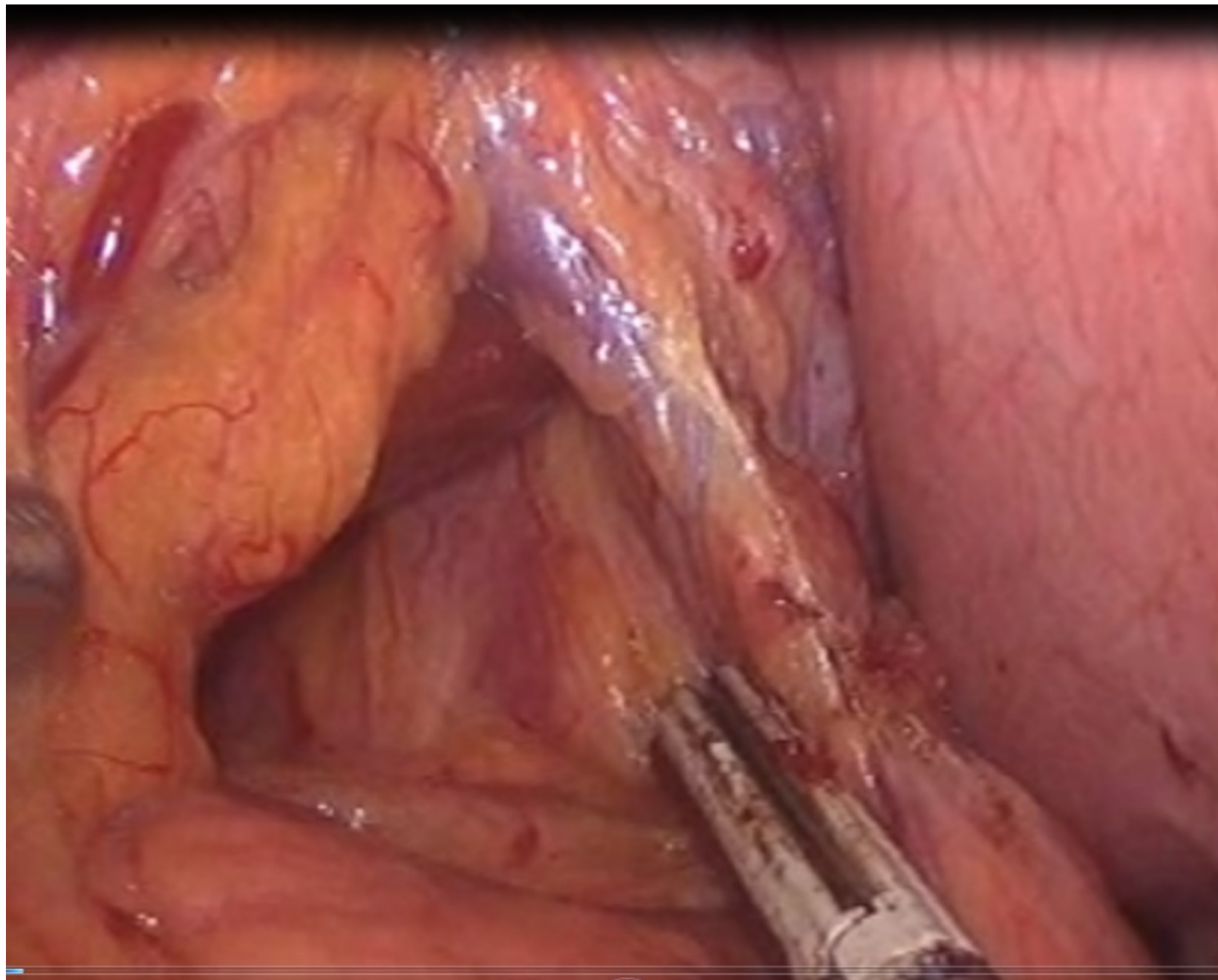
Medial arcuate ligament —

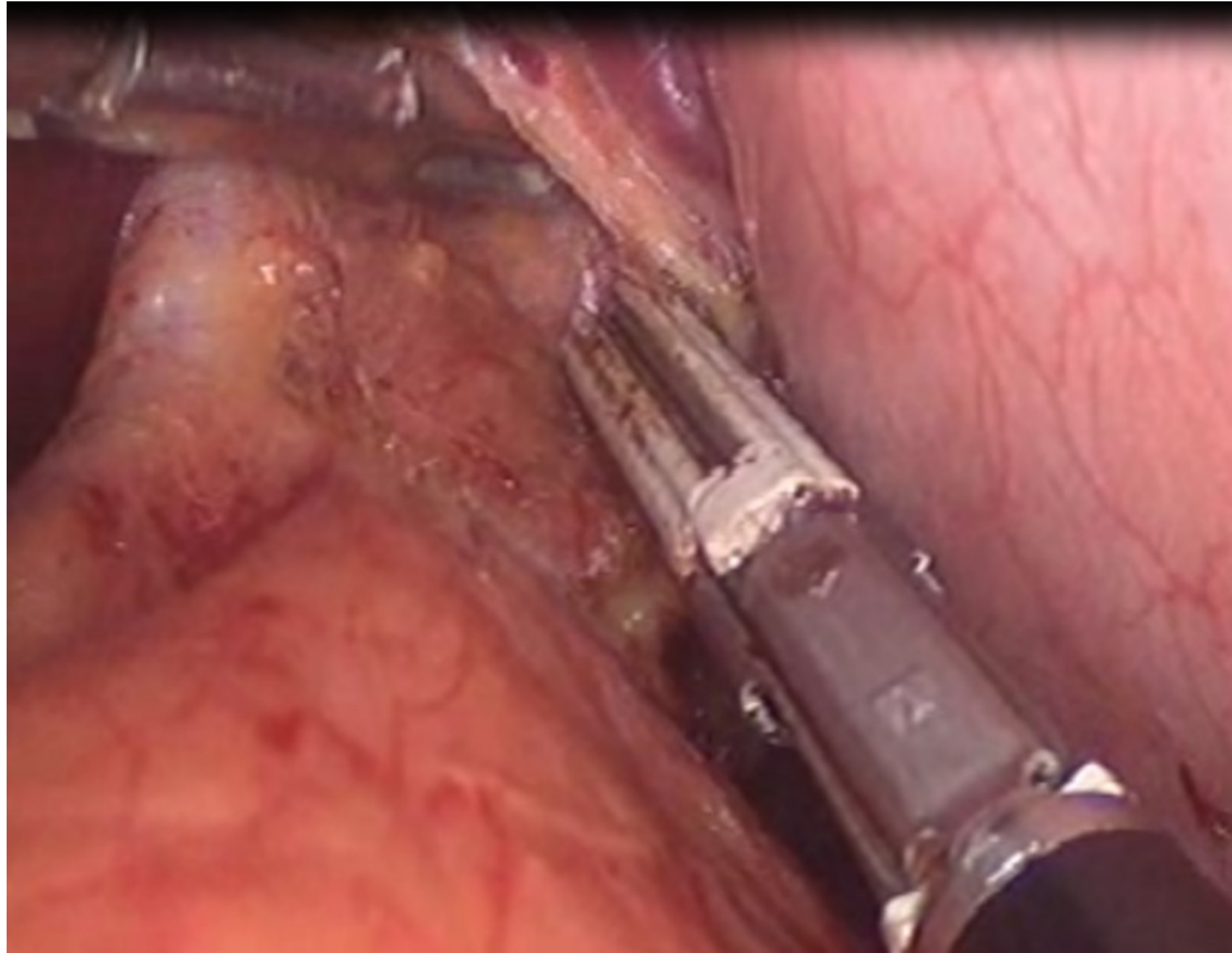
-crosses psoas major

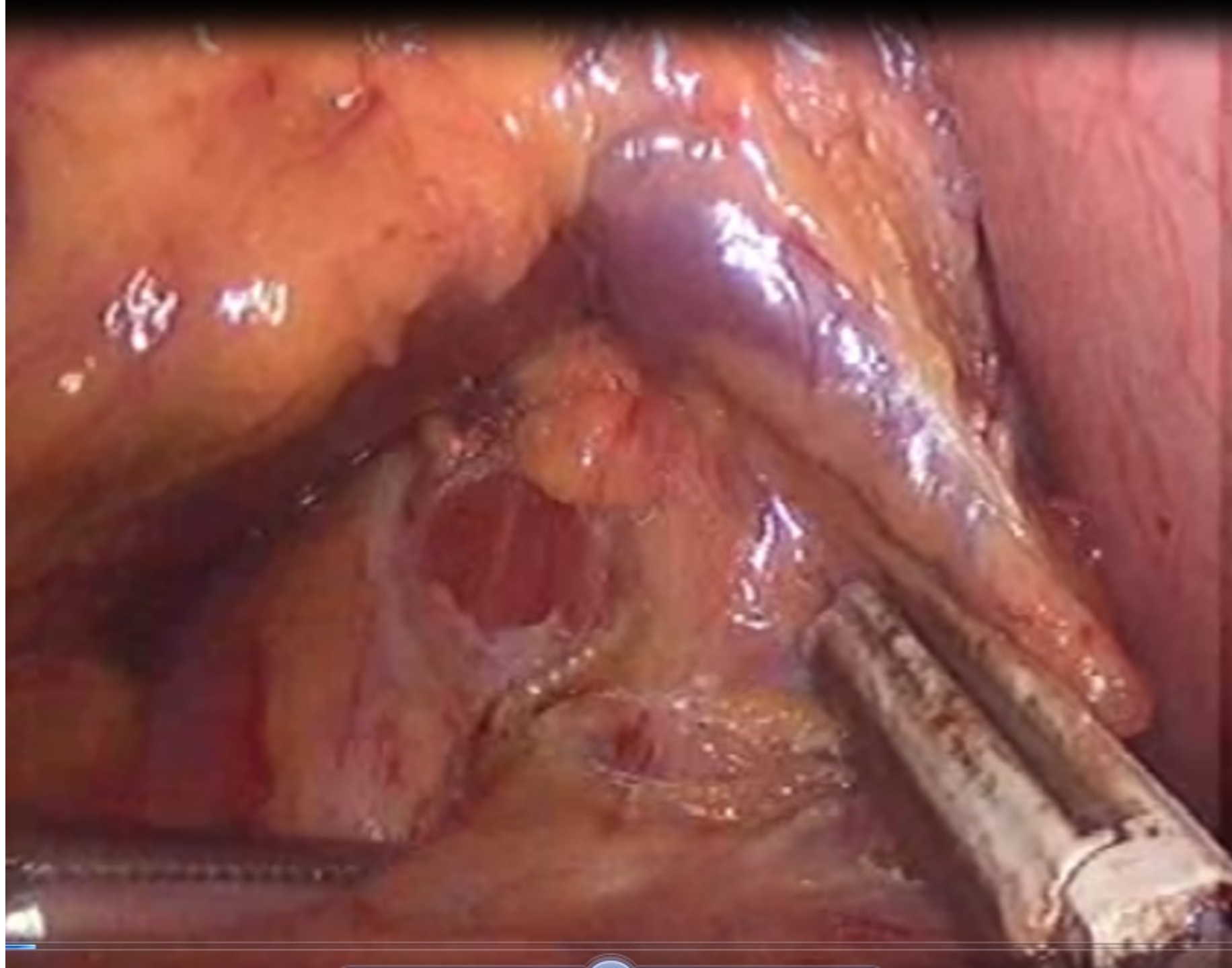
Lateral arcuate ligament —

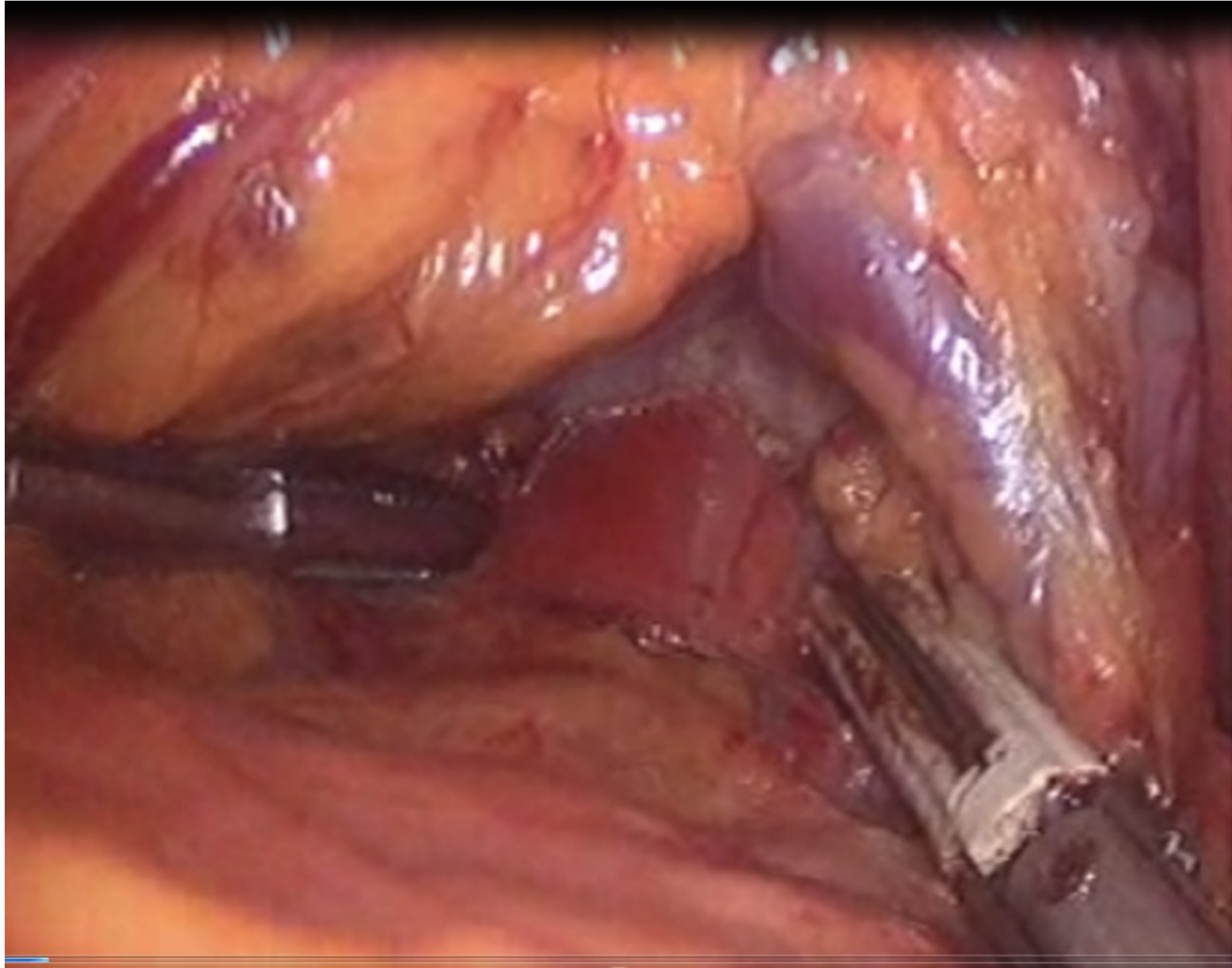
-crosses quadratus lumborum

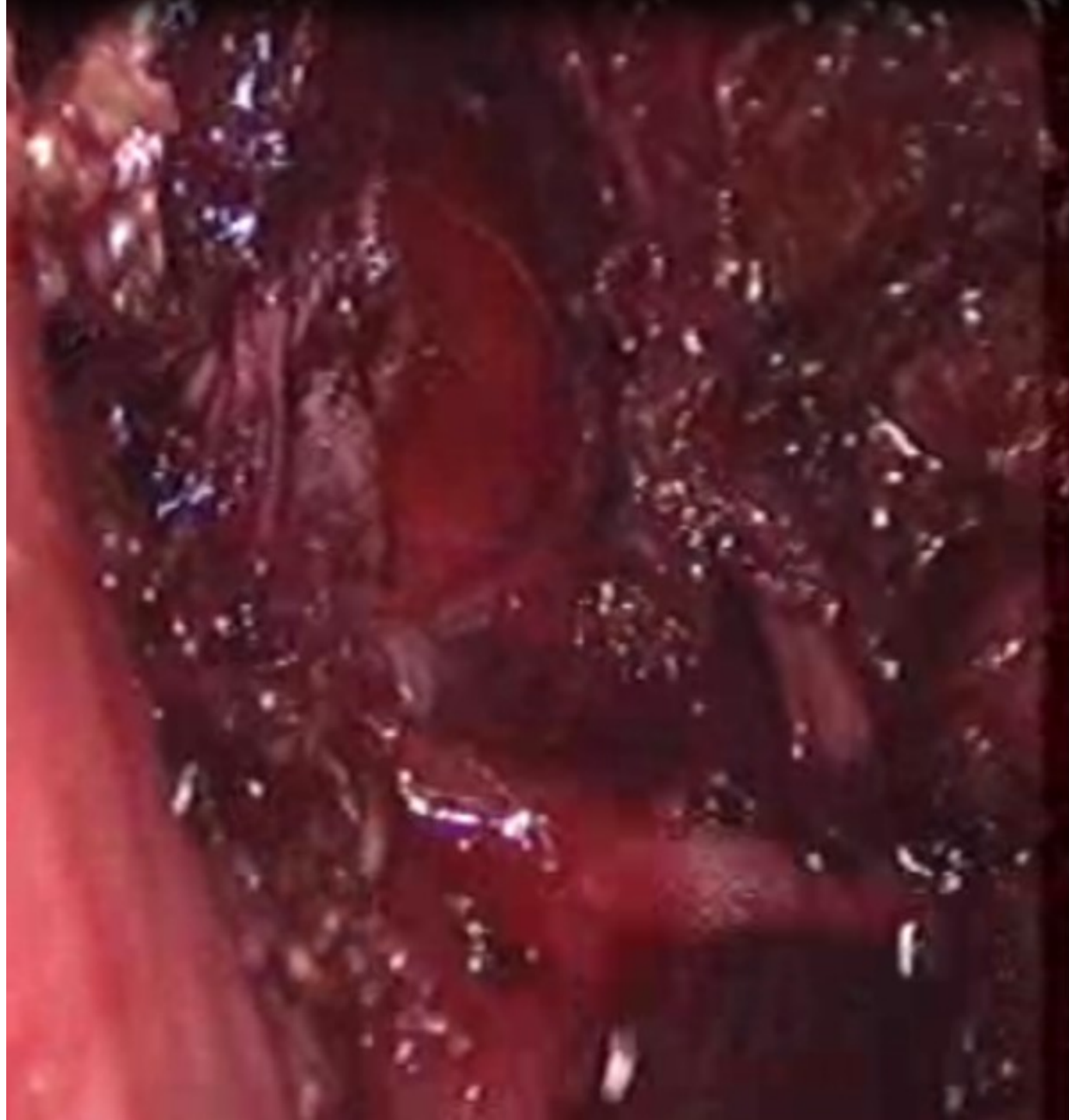


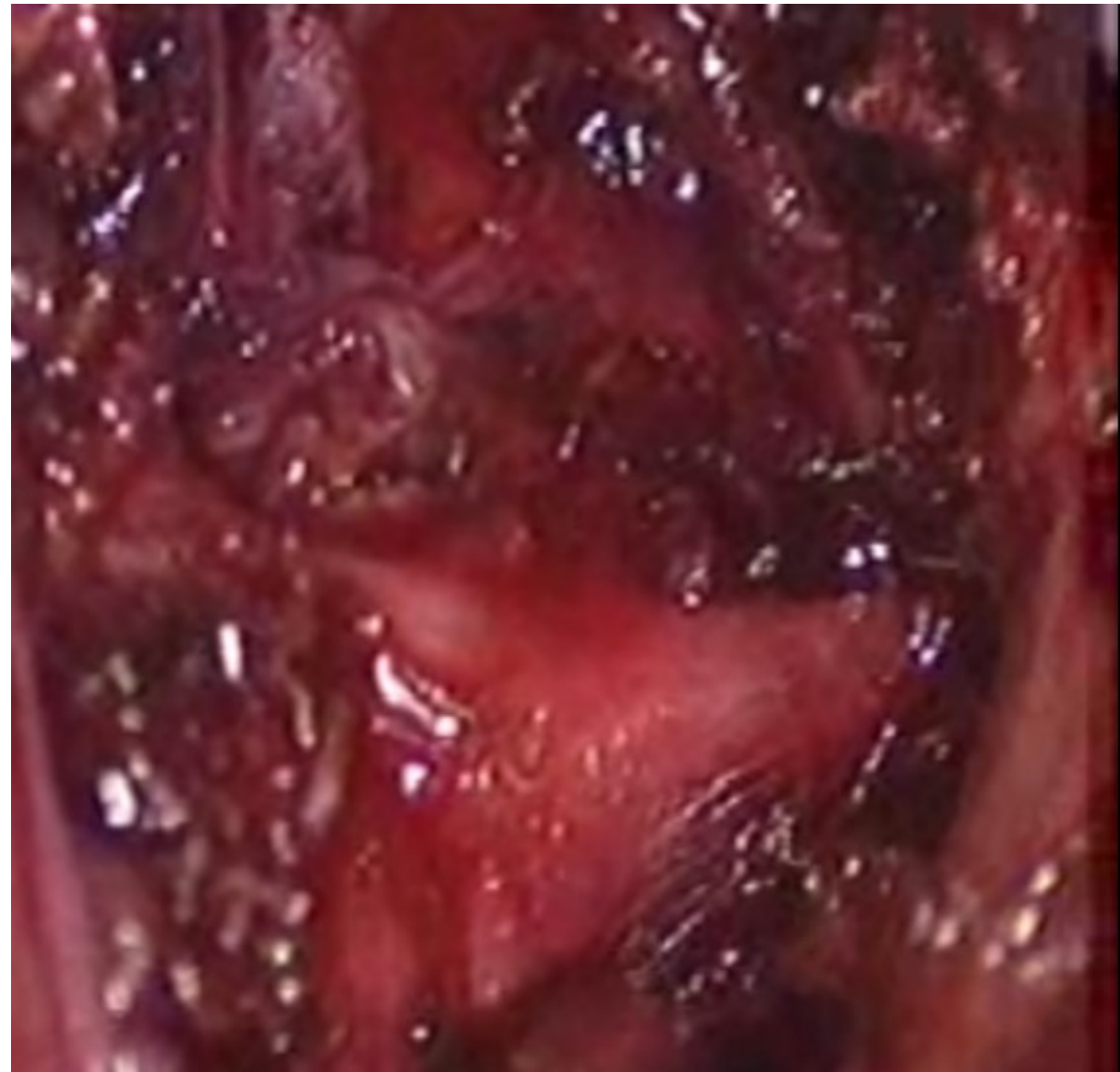


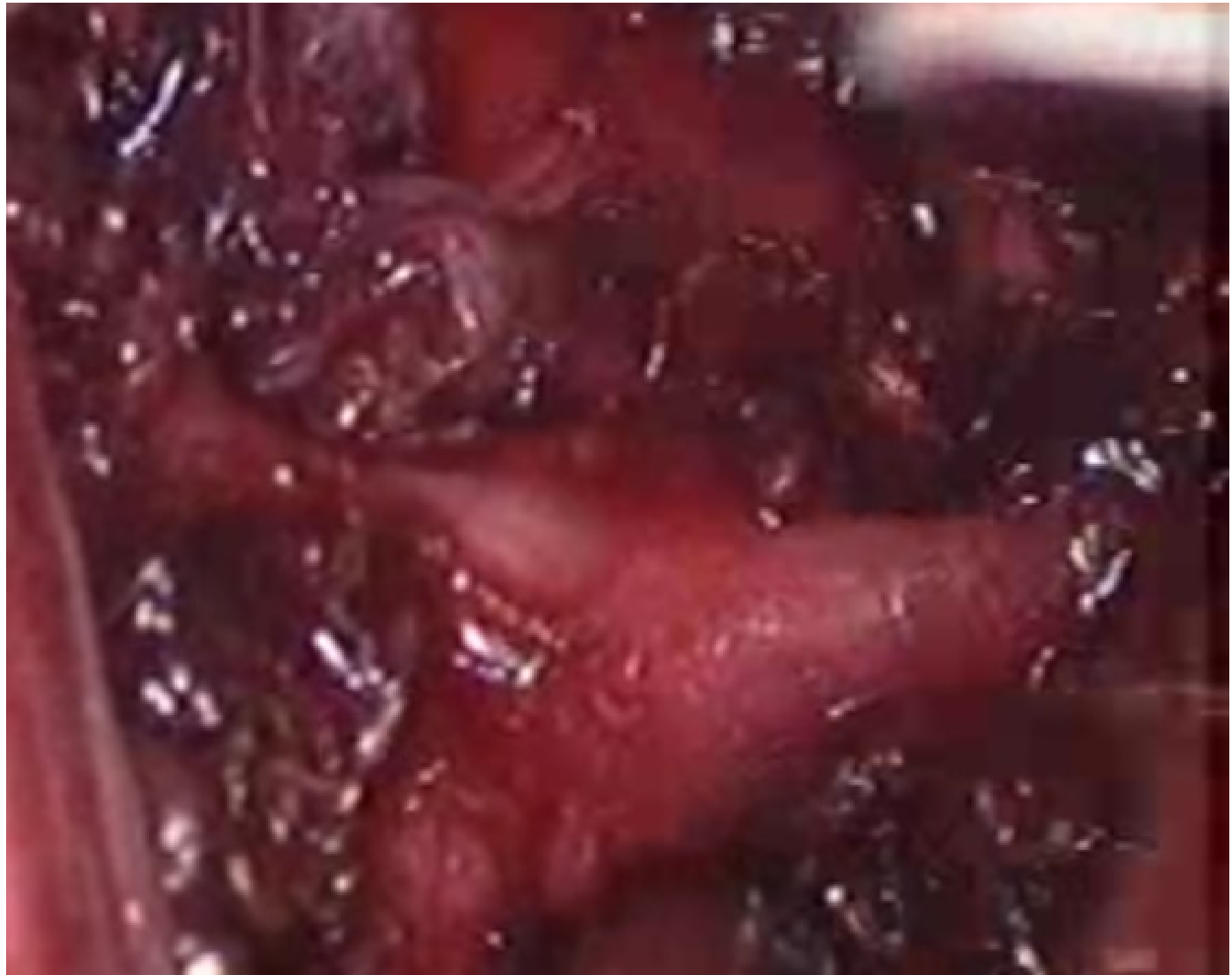


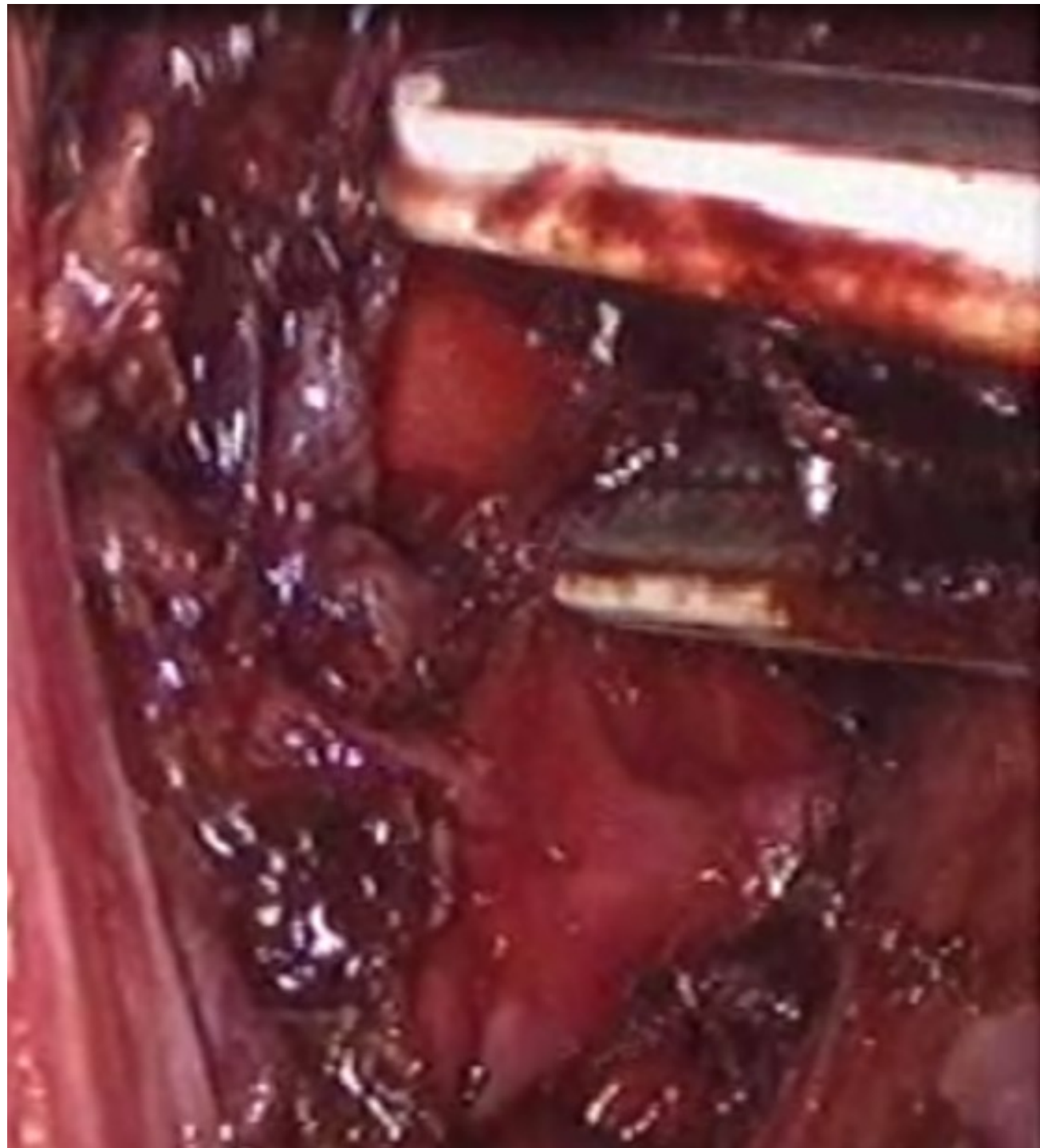














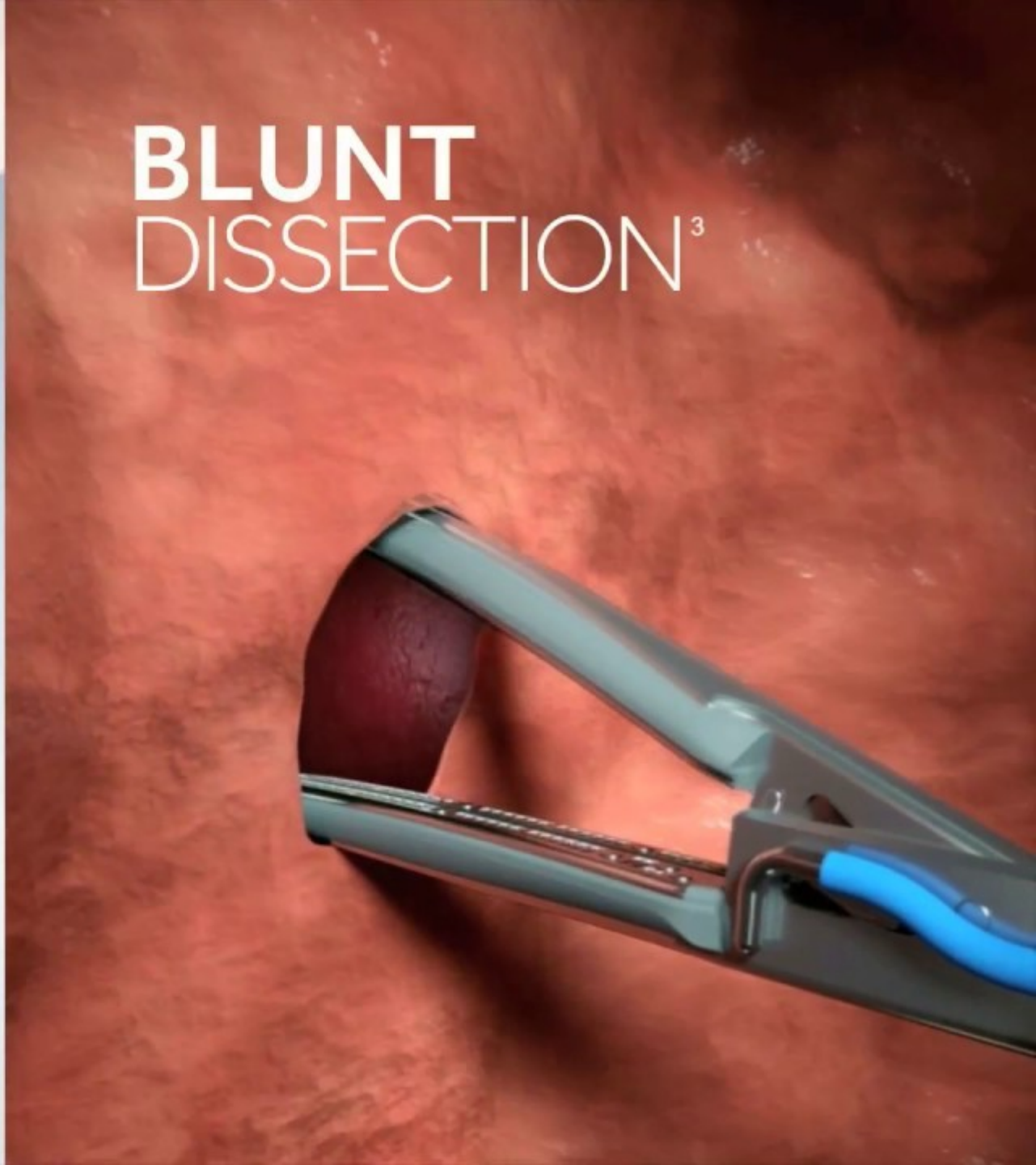
Safest way to dissect & release.



 COVIDIEN



**BLUNT
DISSECTION³**





Referred by: Prof. Hisham Moustafa

ID: 1819769

256 MULTISLICE CT ANGIOGRAPHY OF THE AORTA AND MESENTERIC ARTERIES

TECHNIQUE:

- ∞ Timed multi slice helical CT acquisition with automatic high flow IV non ionic contrast medium infusion to obtain axial sections in arteriographic phase.
- ∞ The obtained sections were processed to obtain angiographic images.

FINDINGS:

**** Given history of previous intervention. Correlation to the last available studies dated 4/8/2018 and 1/9/2018.**

- ∞ Patent normal caliber of the celiac trunk with no current, extrinsic indentation, focal stenotic segments or intraluminal filling defects.
- ∞ Normal appearance of the opacified abdominal aortic segment. No focal areas of stenosis, aneurysmal dilatation or intimal



can
256
12

7



- 1. Preparation**
- 2. Access.**
- 3. Approach.**
- 4. Target area.**
- 5. Leader to the celiac trunk.**
- 6. Leader to the MAL**
- 7. Safest way to dissect & release.**

