

REGIONAL ANATOMY OF THE ABDOMEN

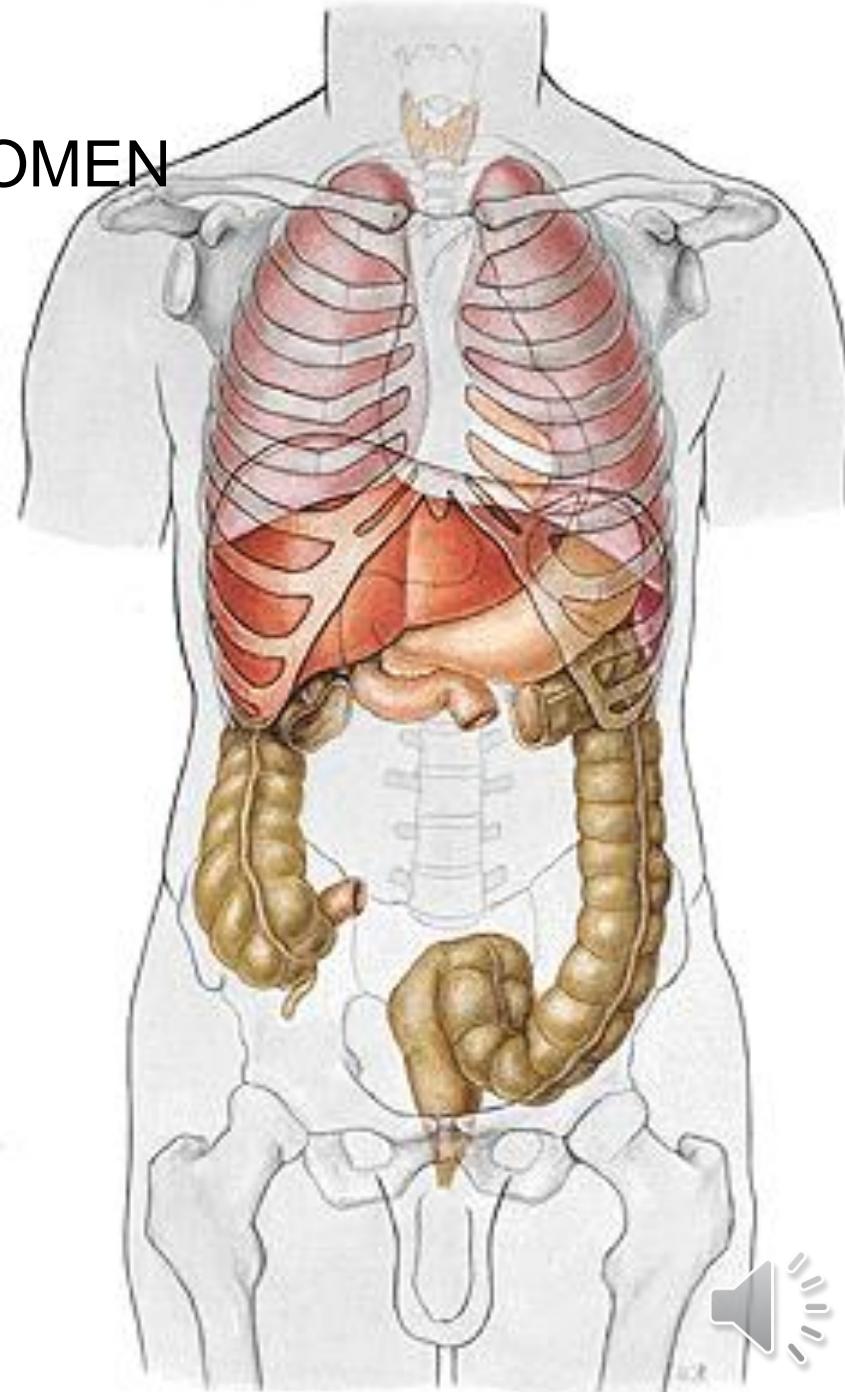
Ivana Hradilová Svíženská

SUPERFICIAL BORDERS OF THE ABDOMEN



DEEP BORDERS OF THE ABDOMEN

- DIAPHRAGMA
- LINEA TERMINALIS



FACTORS INFLUENCING THE SHAPE:

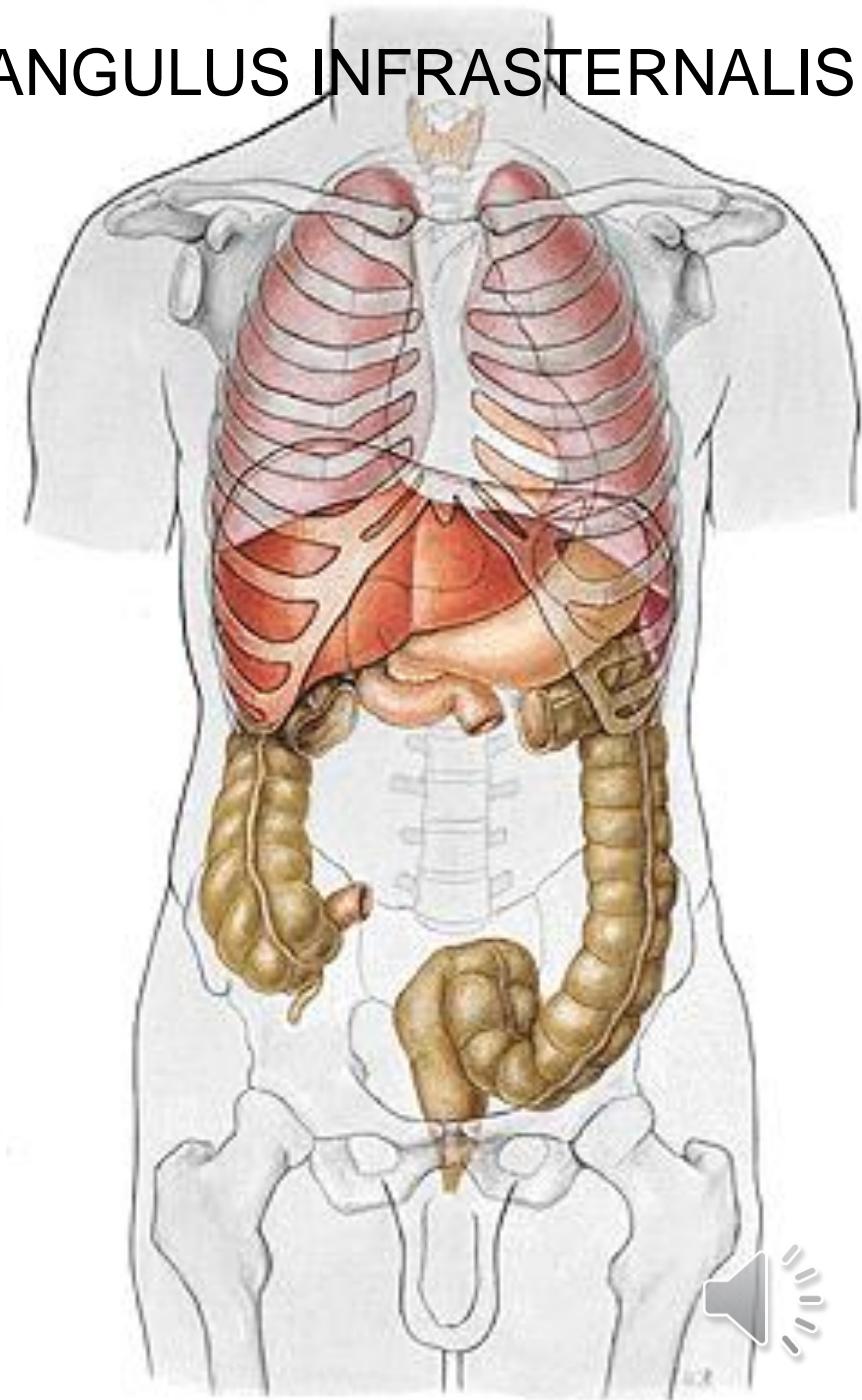
- SEX
- AGE
- CONSTITUTION
- ALIMENTATION
- CONTENTS
- POSITION
- CONTRACTION OF MUSCLES
- RESPIRATION



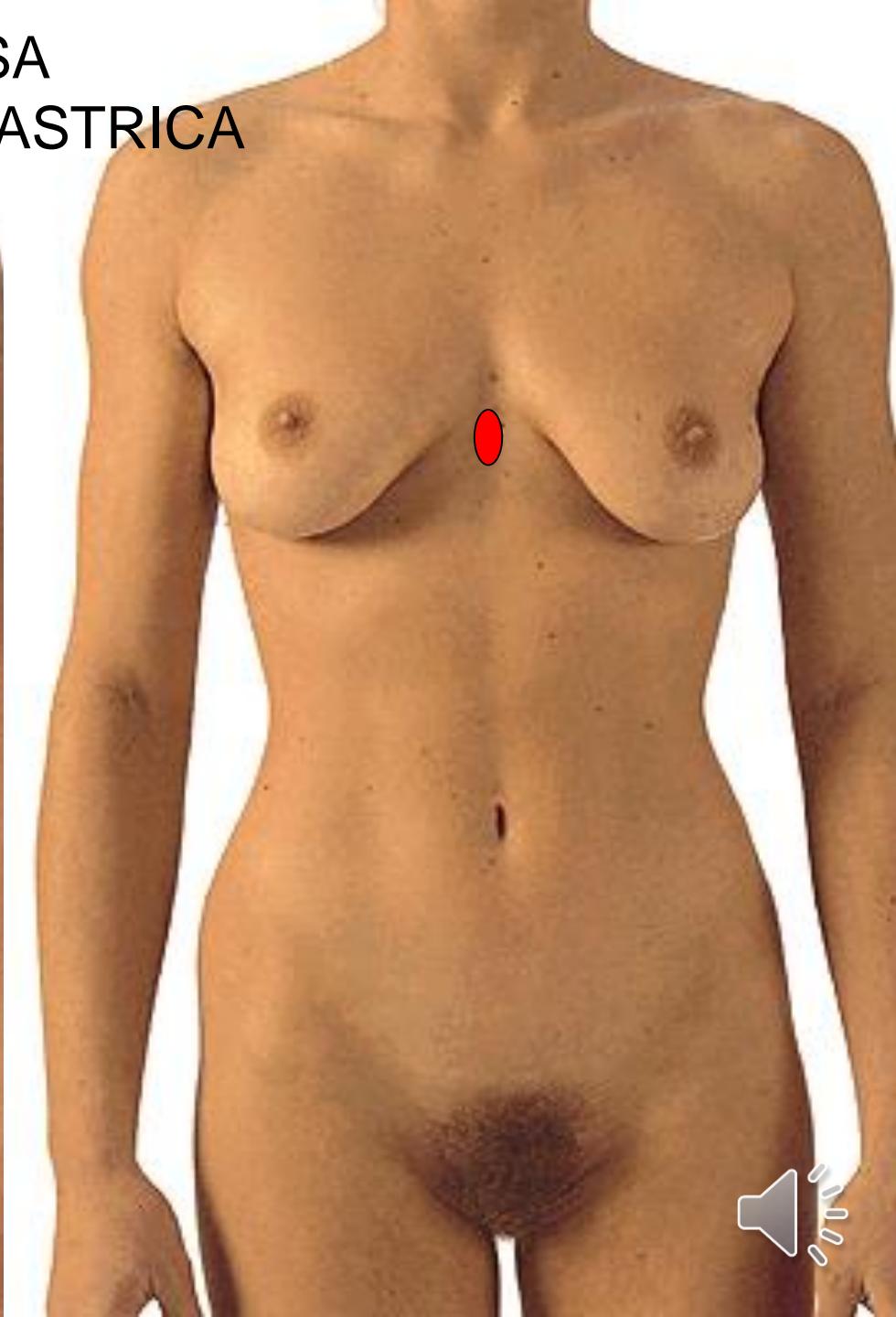
TUBERCULUM
COSTOABDOMINALE



ANGULUS INFRASTERNALE



**FOSSA
EPIGASTRICA**

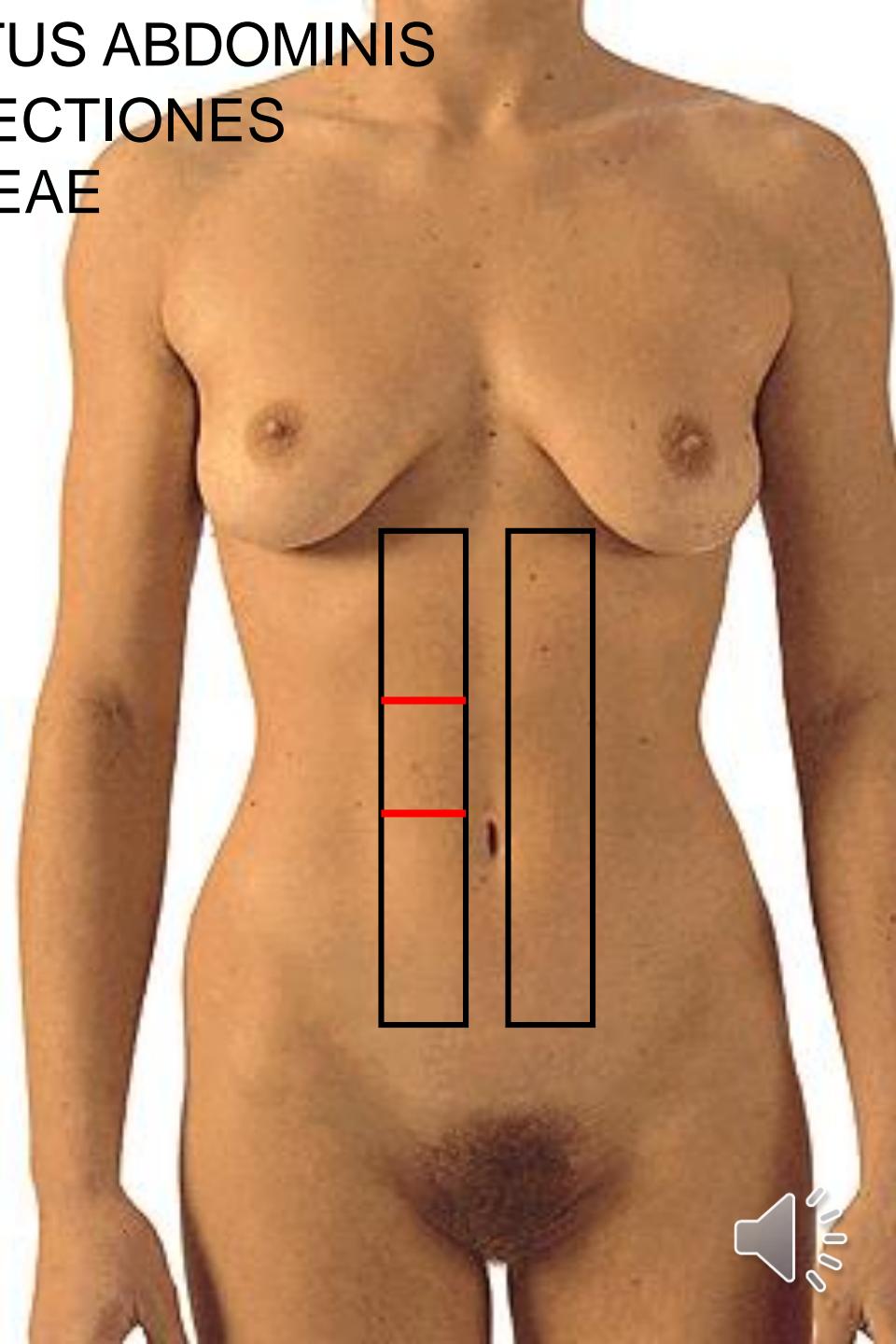
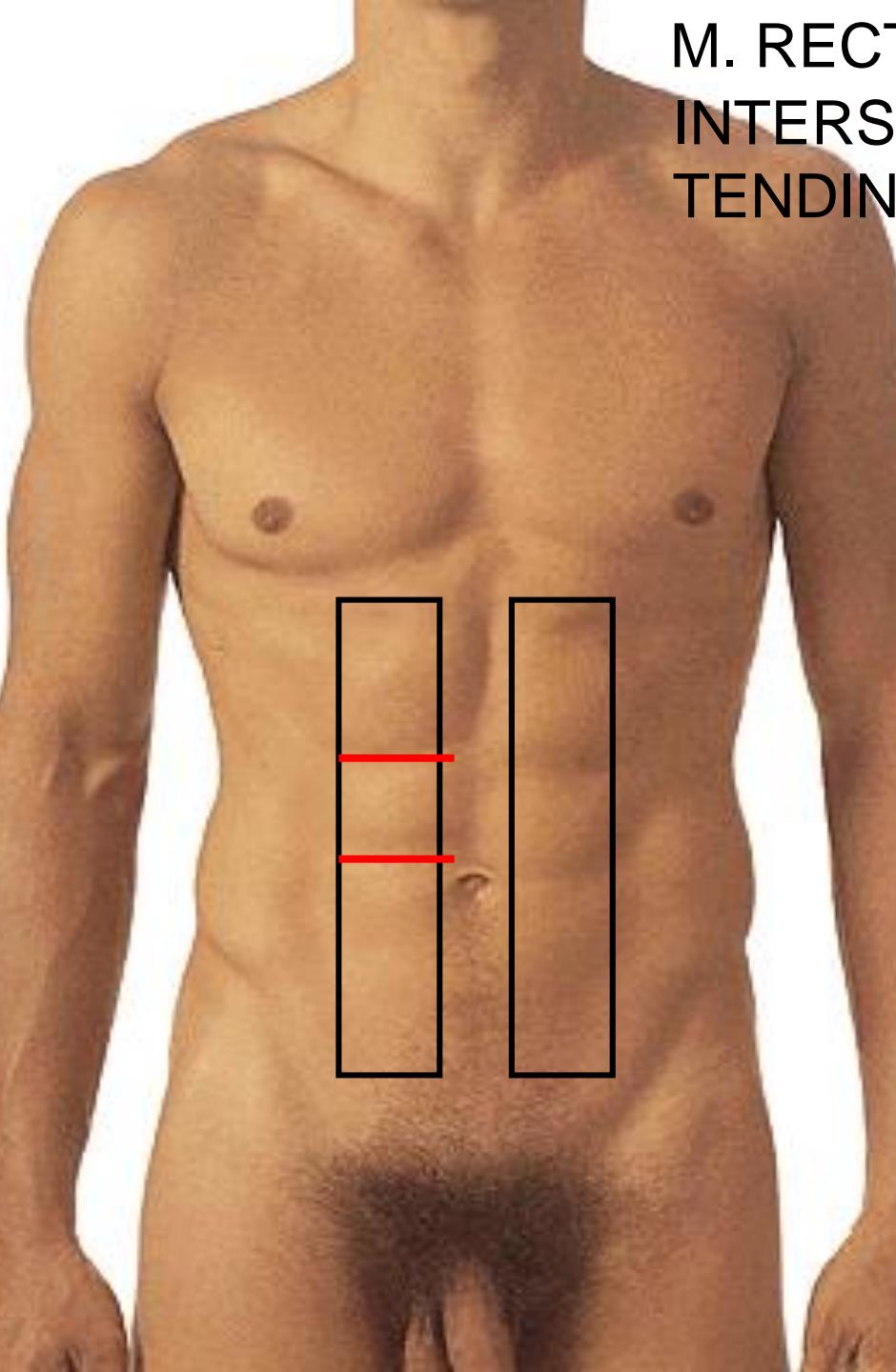


UMBILICUS – L3/L4

LINEA ALBA



M. RECTUS ABDOMINIS
INTERSECTIONES
TENDINEAE



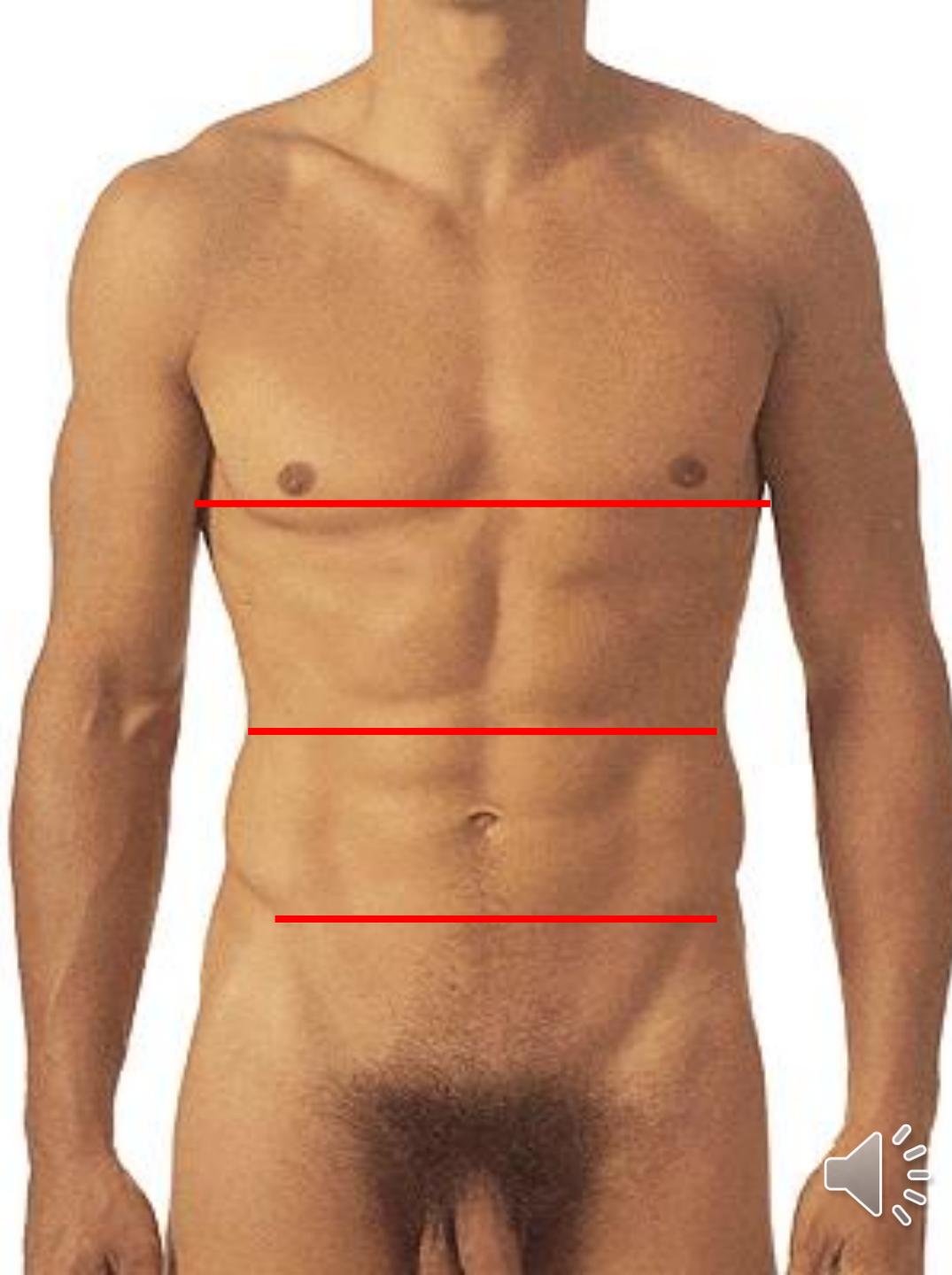
PUBES



LINEA XIPHISTERNALIS

LINEA SUBCOSTALIS

LINEA INTERSPINALIS



EPIGASTRIUM

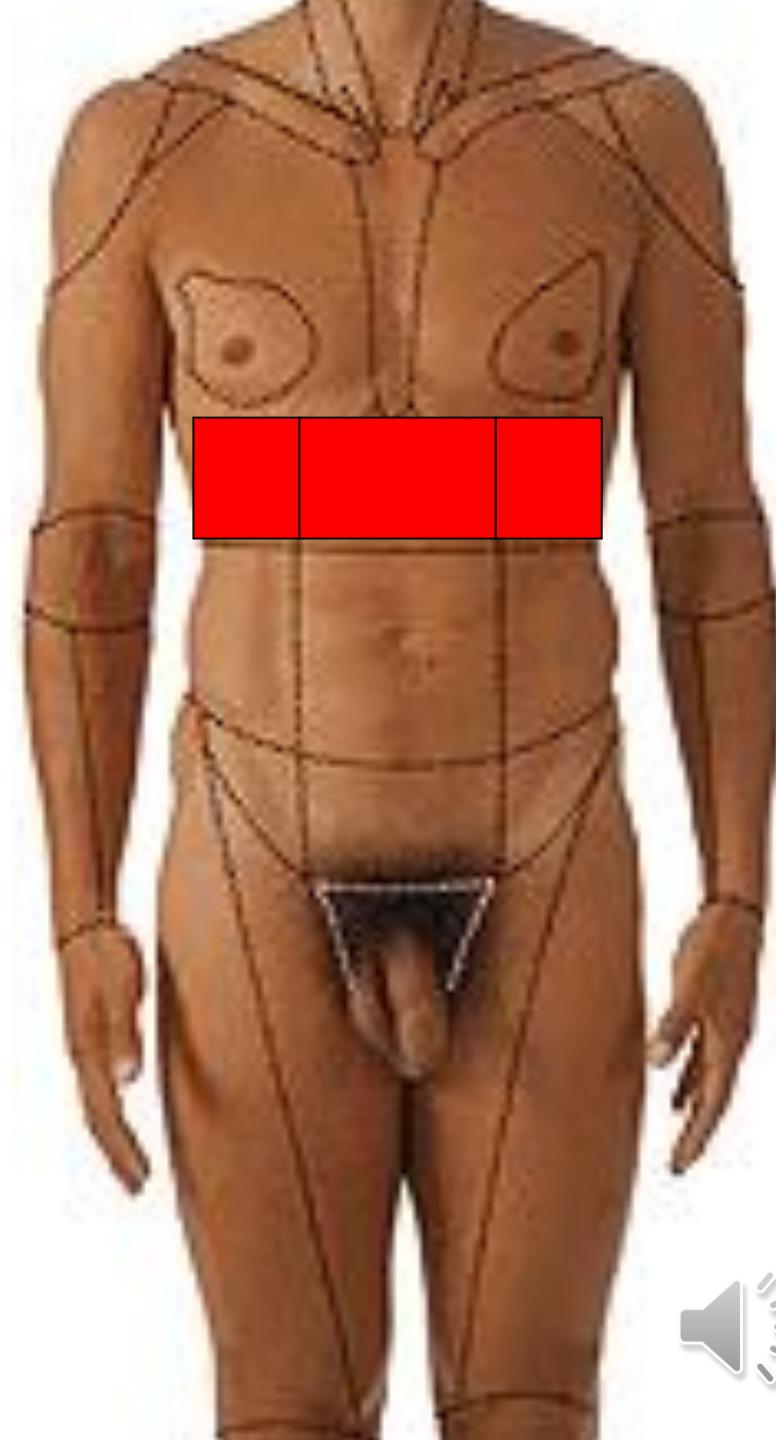
MESOGASTRIUM

HYPOGASTRIUM

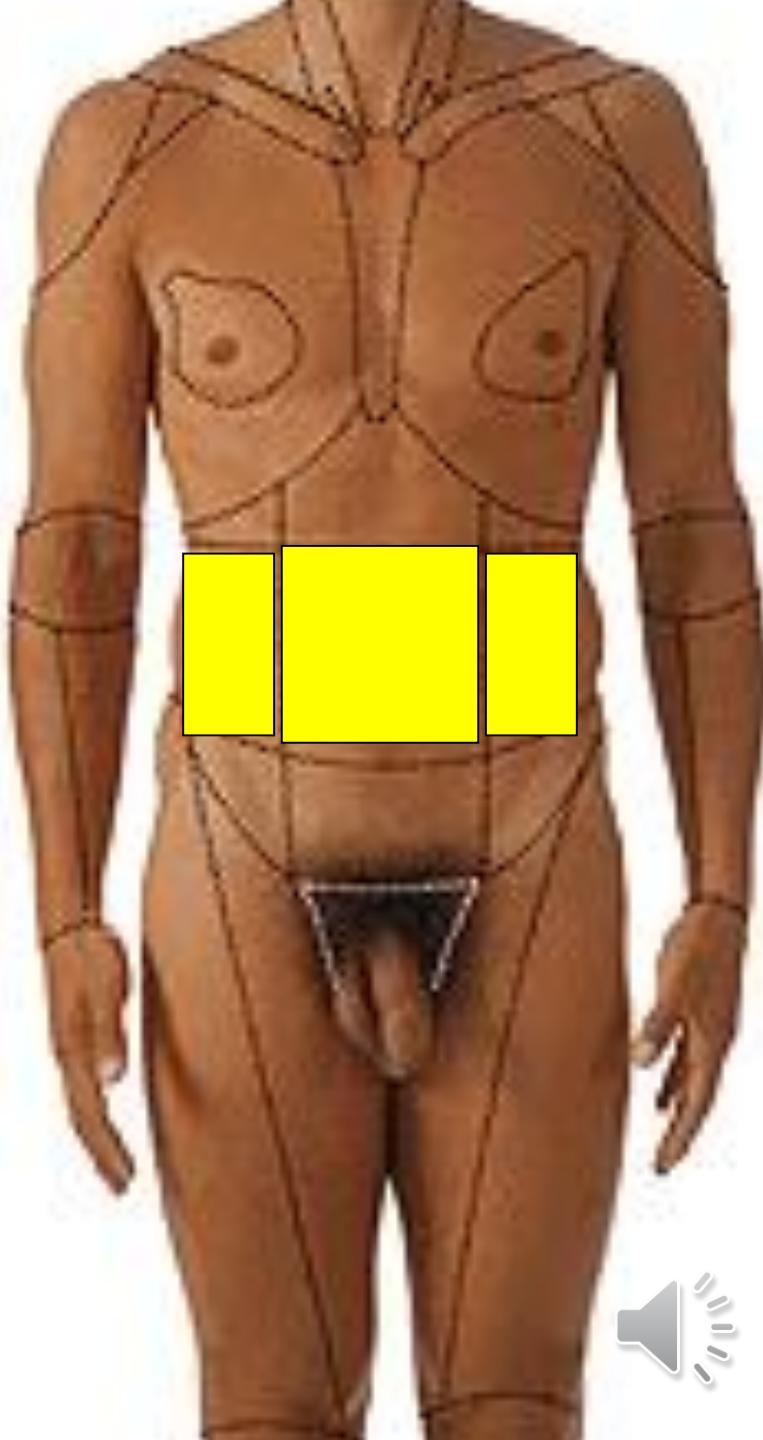




**REGIO EPIGASTRICA +
REGIO HYPOCHONDRIACA
DEXTRA ET SINISTRA**



**REGIO UMBILICALIS +
REGIO LATERALIS
DEXTRA ET SINISTRA**



**REGIO PUBICA +
REGIO INGUINALIS
DEXTRA ET SINISTRA**



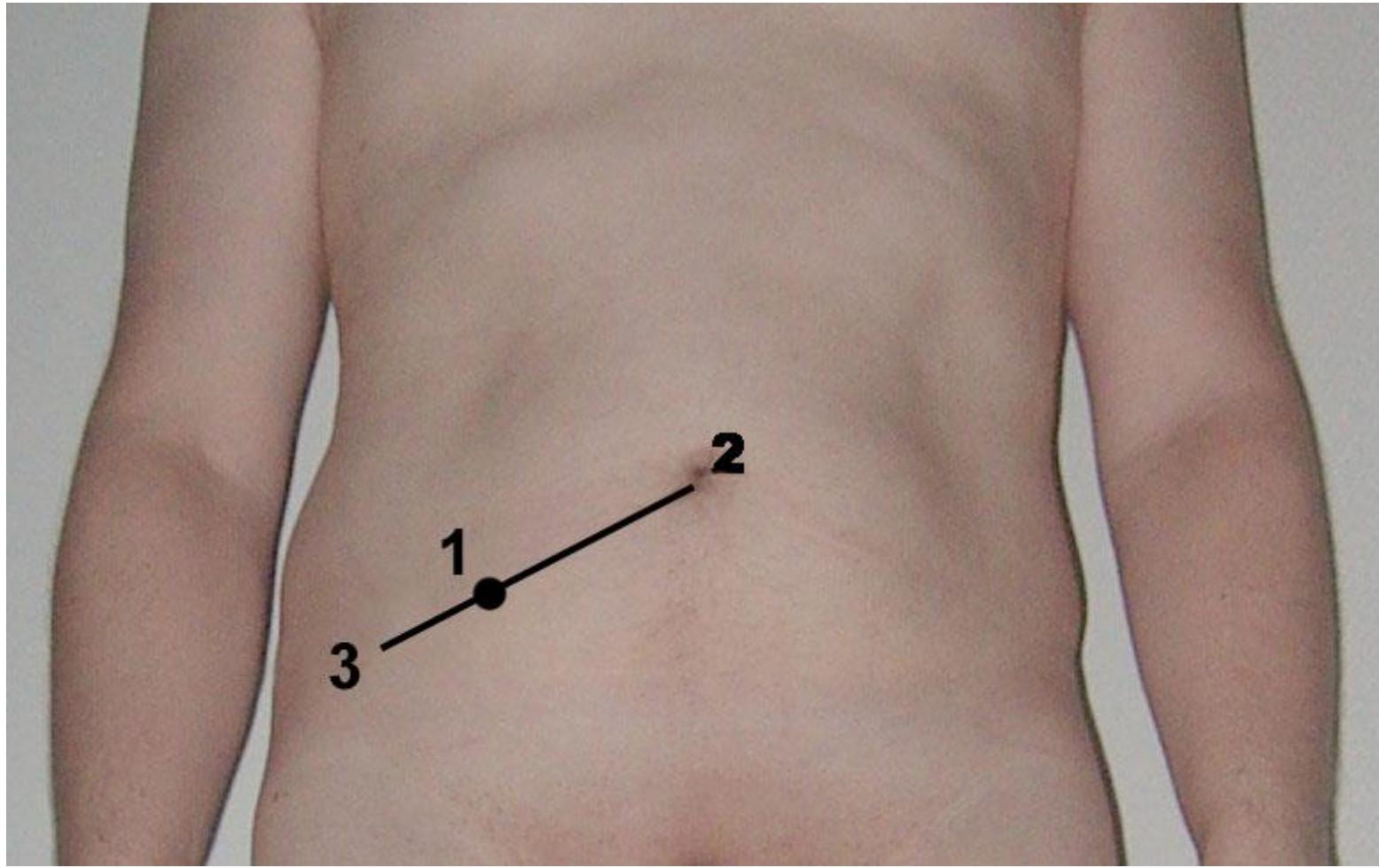
LINEA TRANSPYLORICA



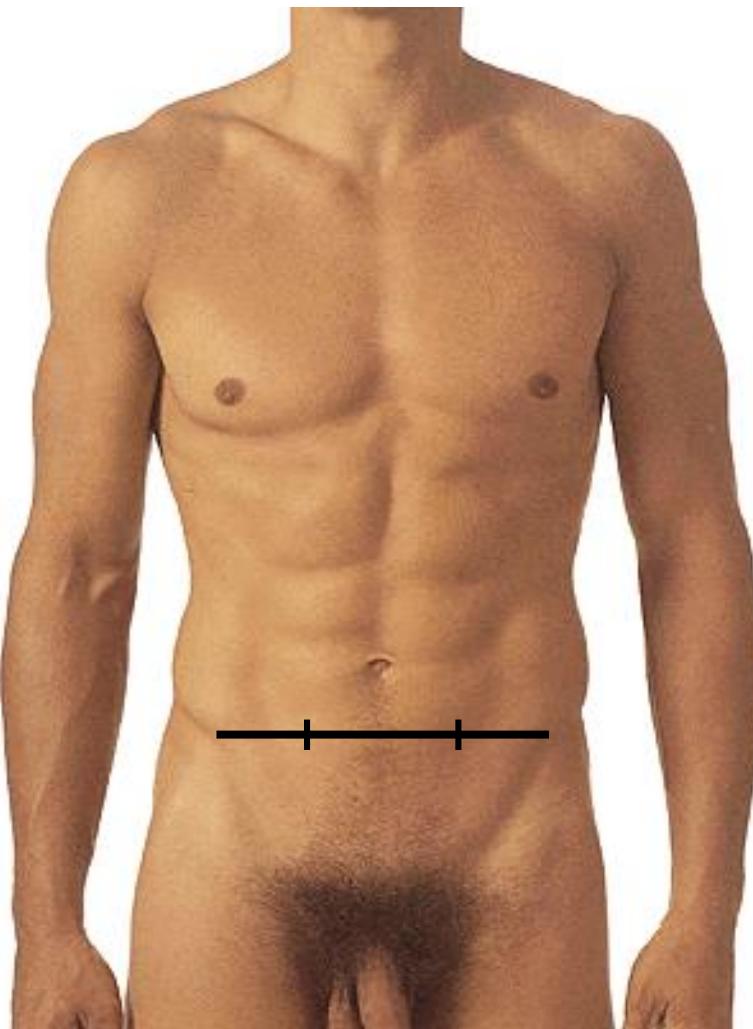
LINEA INTERCRIStALIS



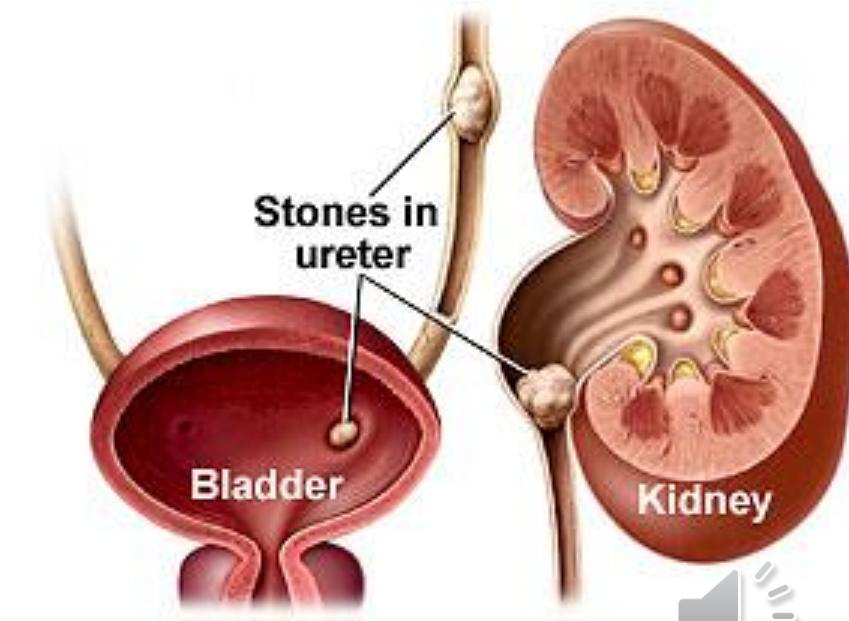
Appendix vermiciformis: McBurney's point (Monro's line)

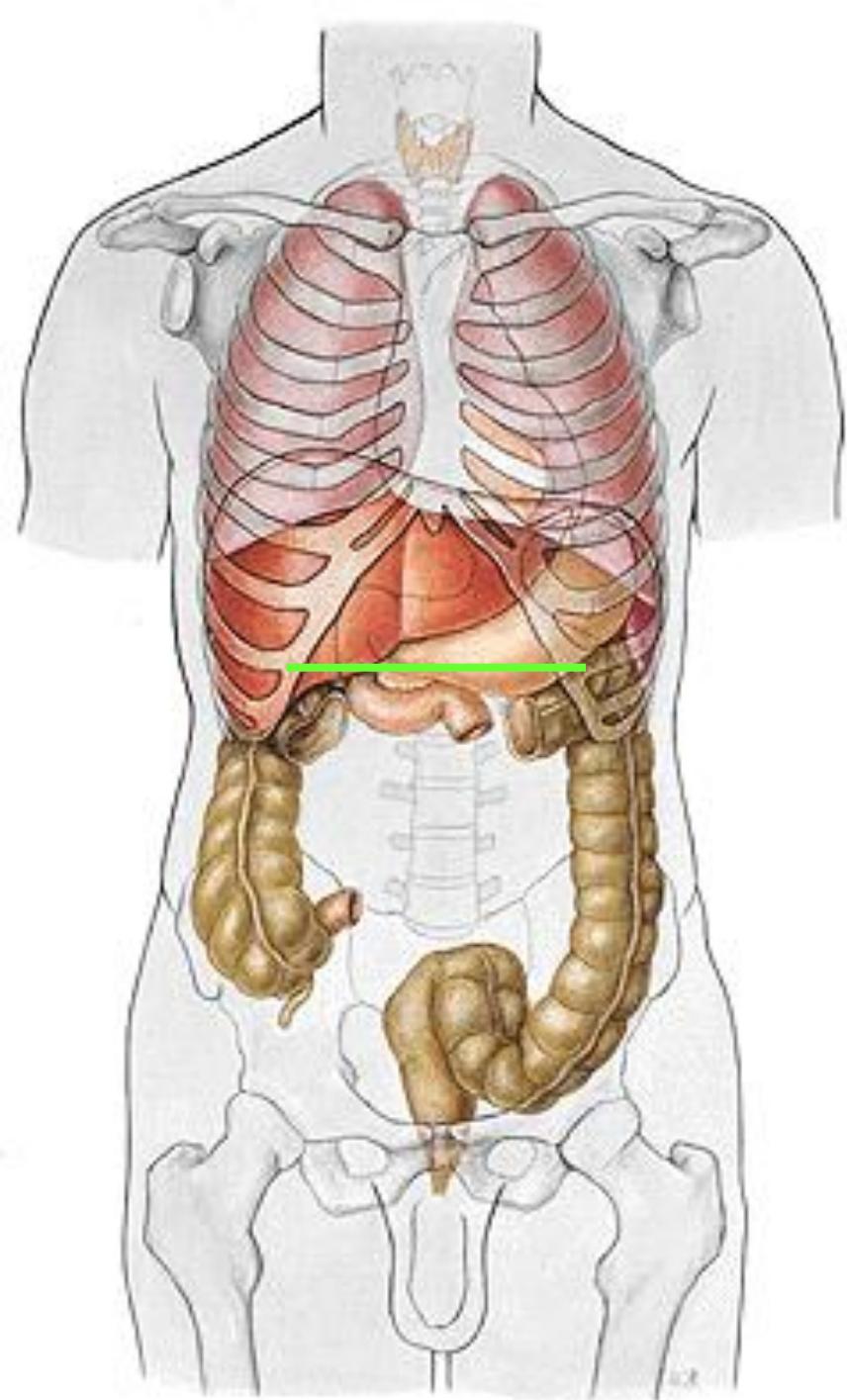


Point of LANZ (appendix vermiformis)

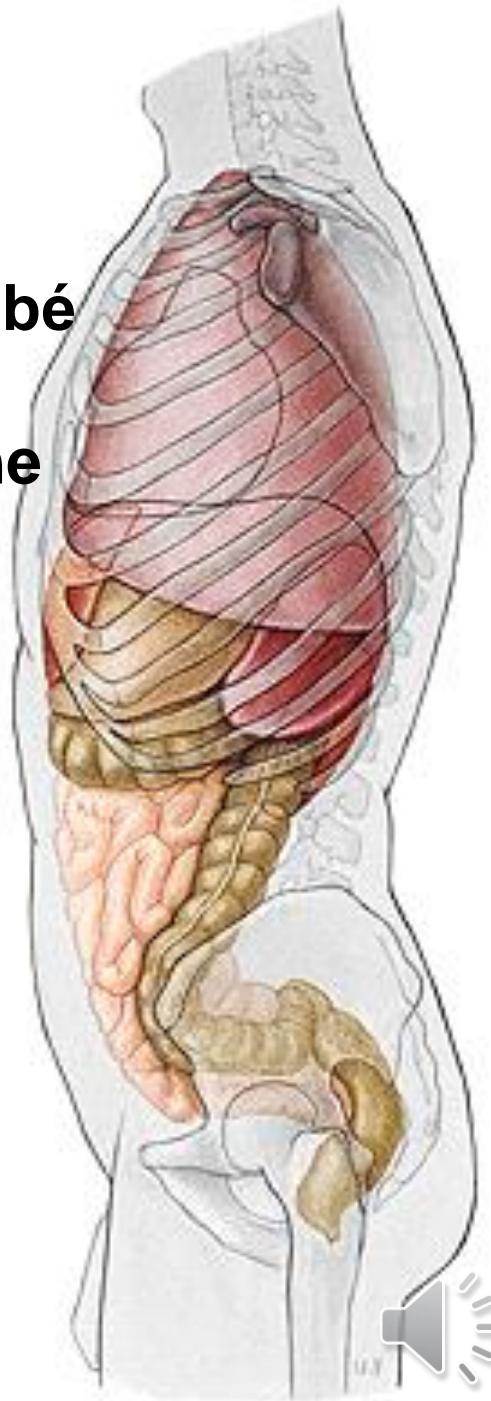


Ureterolithiasis

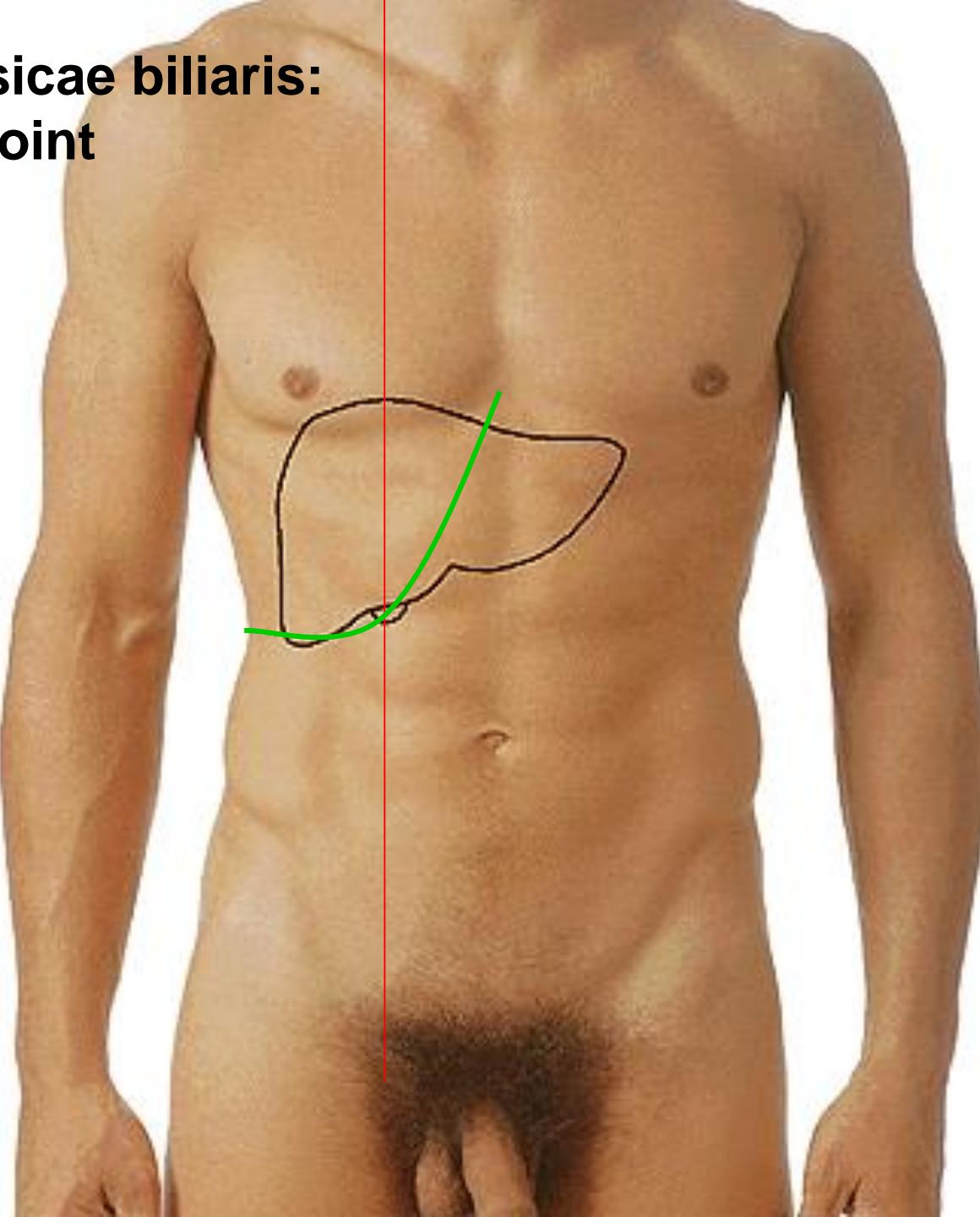




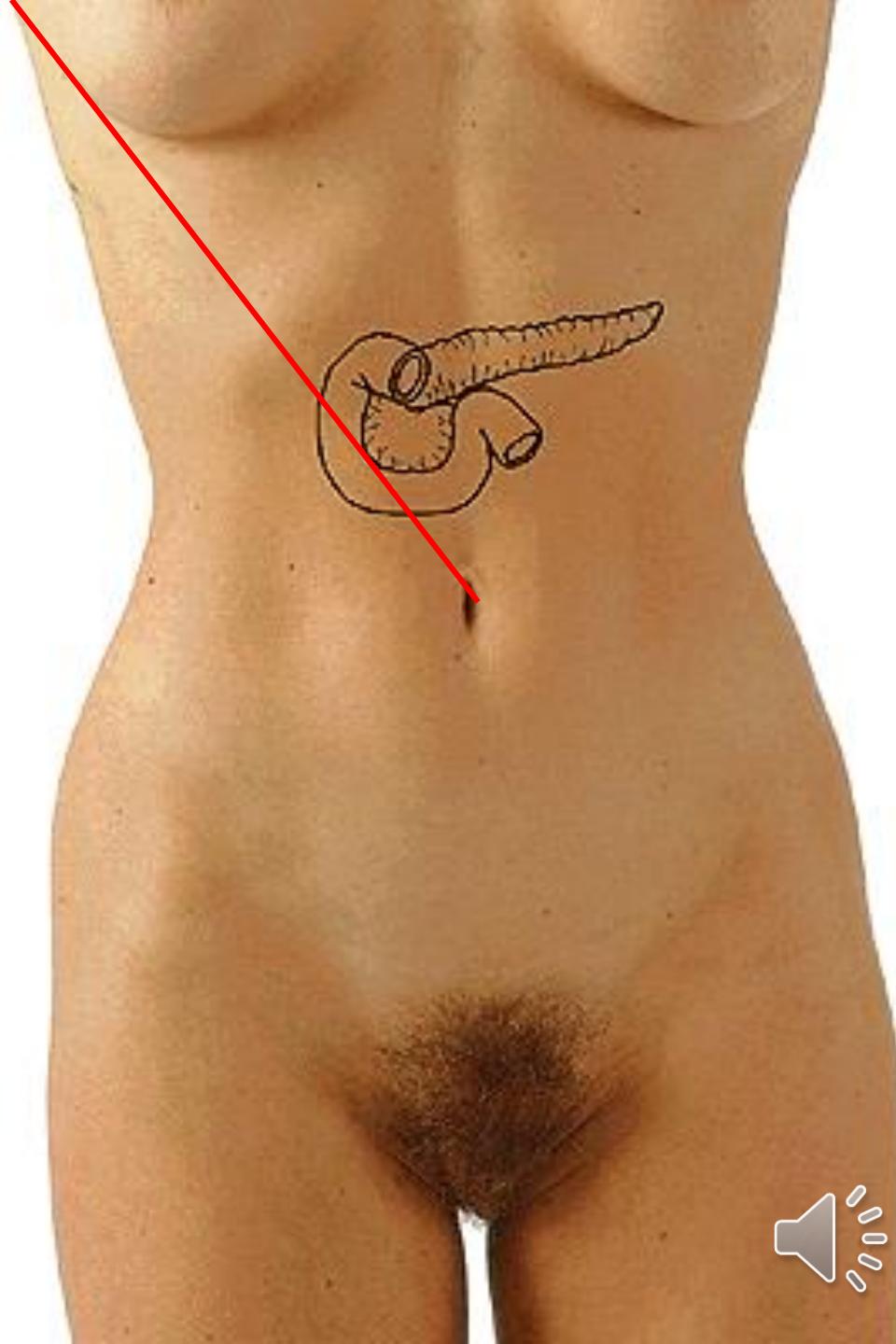
Ventriculus:
Triangle of Labbé
transpyloric line



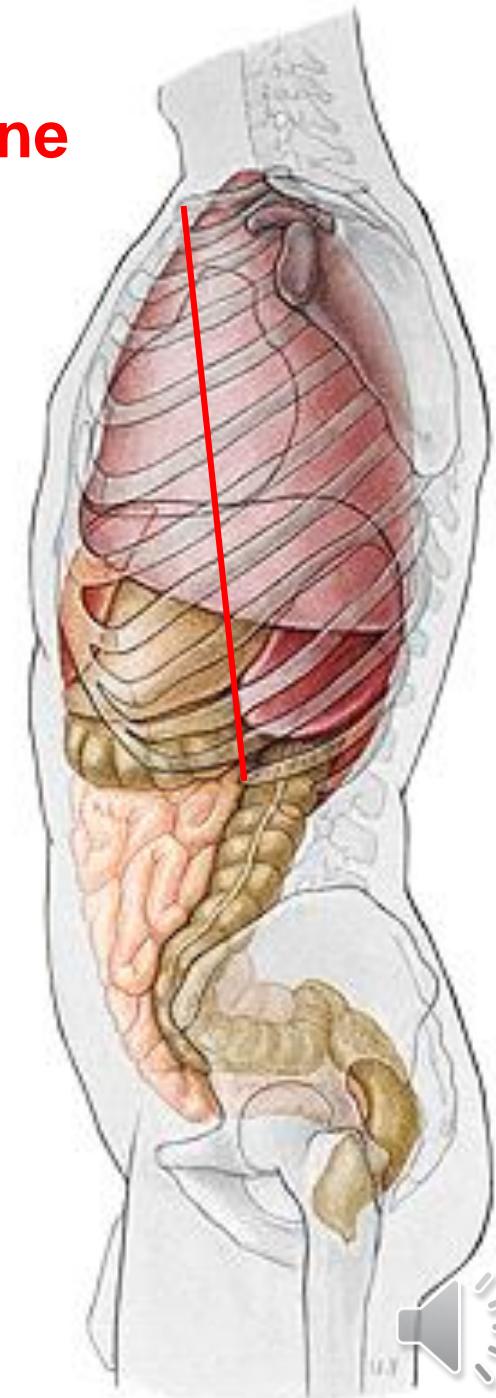
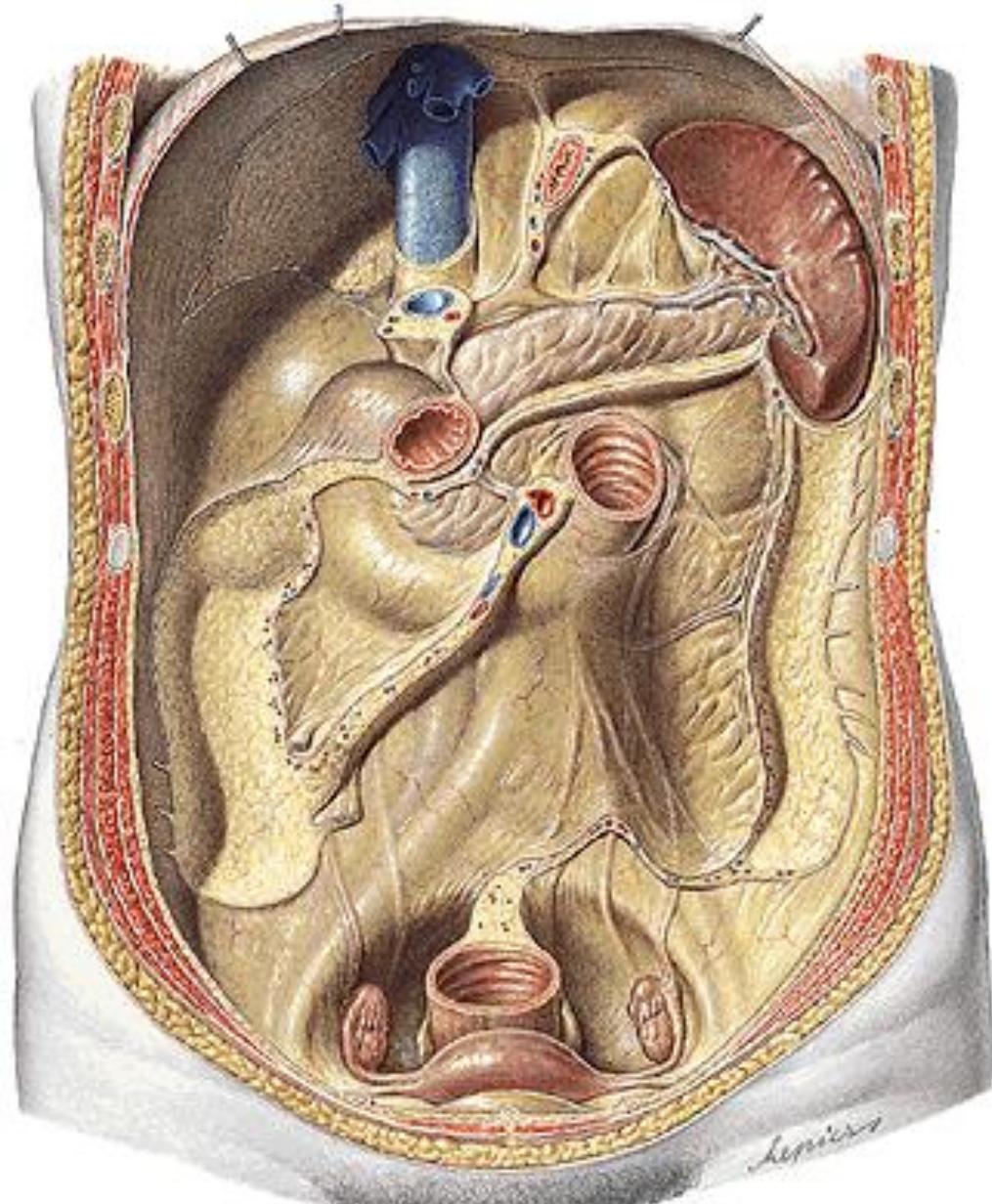
Fundus vesicae biliaris: Murphy's point



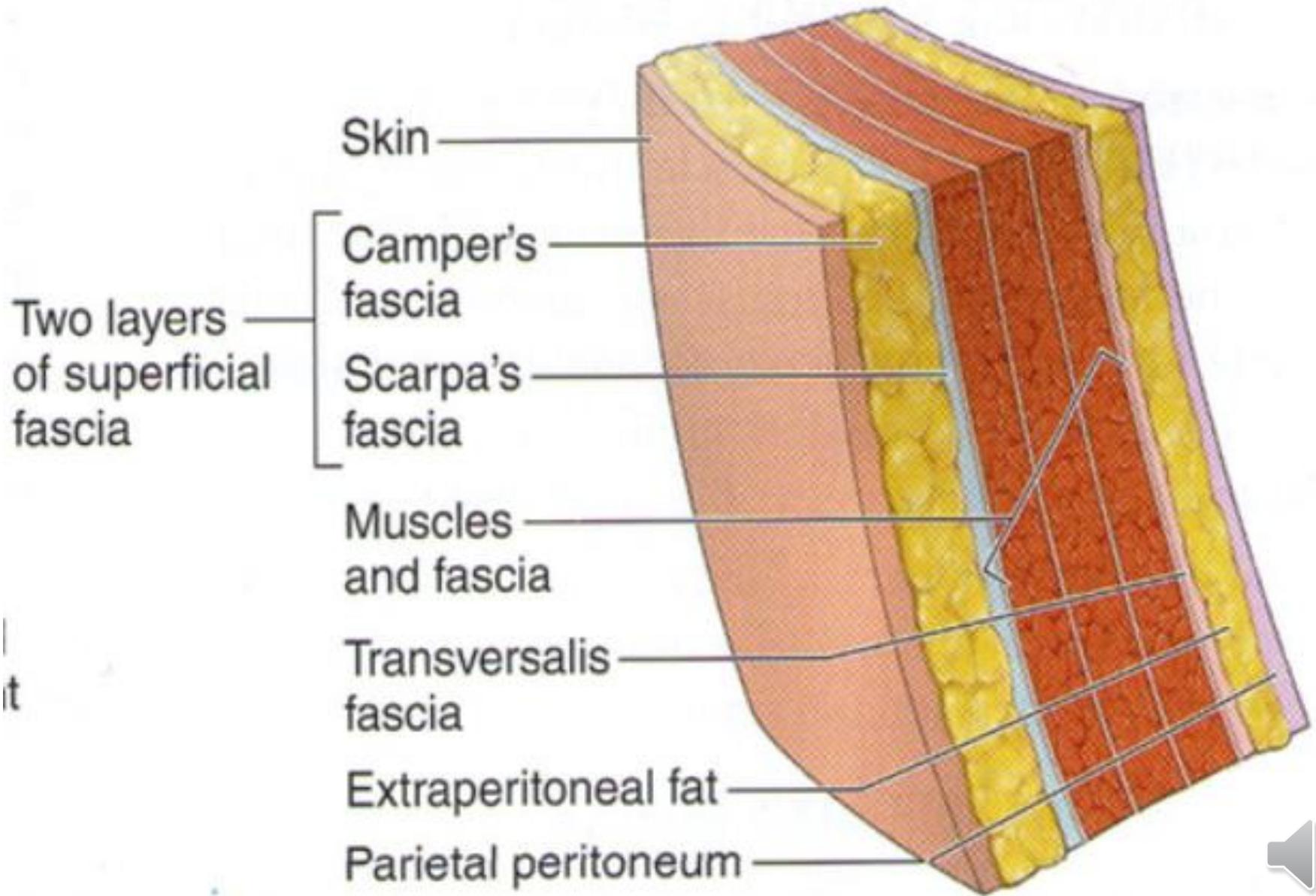
Papilla Vateri:
Umbilico-axillary line
- point of Desjardins



Costoarticular line



ABDOMINAL WALL



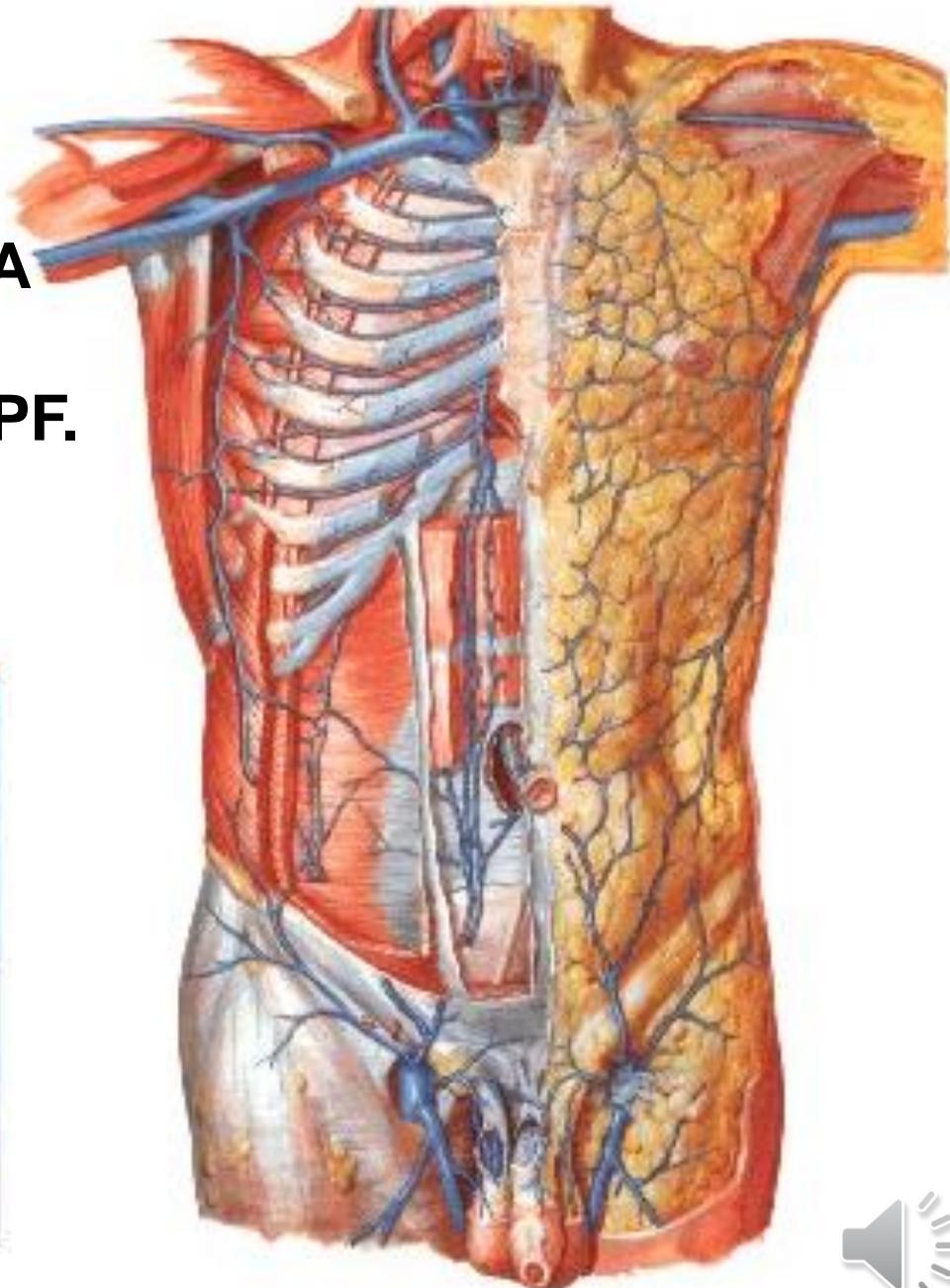
VV. SUBCUTANAE ABD.

V. THORACOEPIGASTRICA

V. EPIGASTRICA SPF.

V. CIRCUMFLEXA ILIUM SPF.

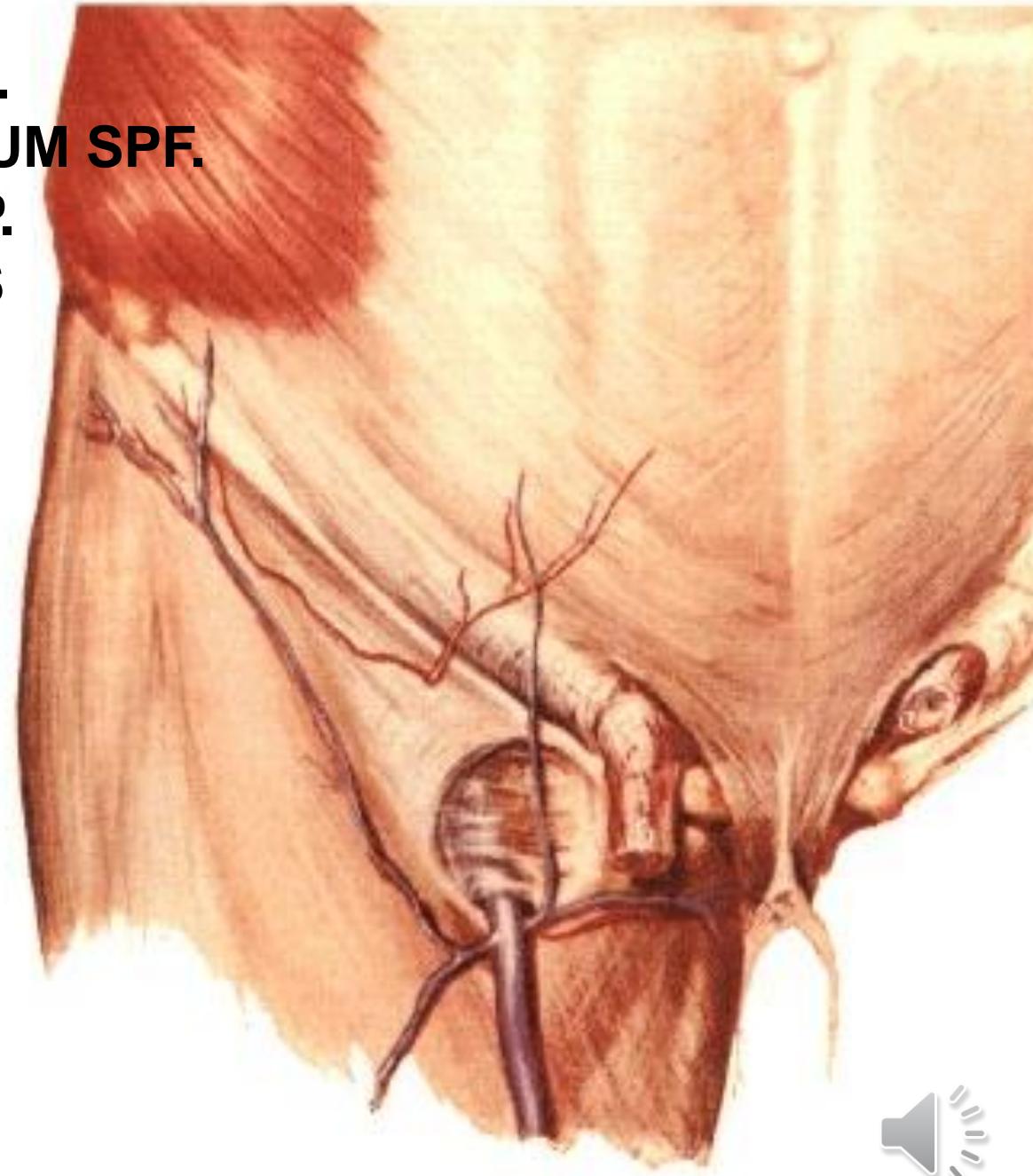
VV. PARAUMBILICALES



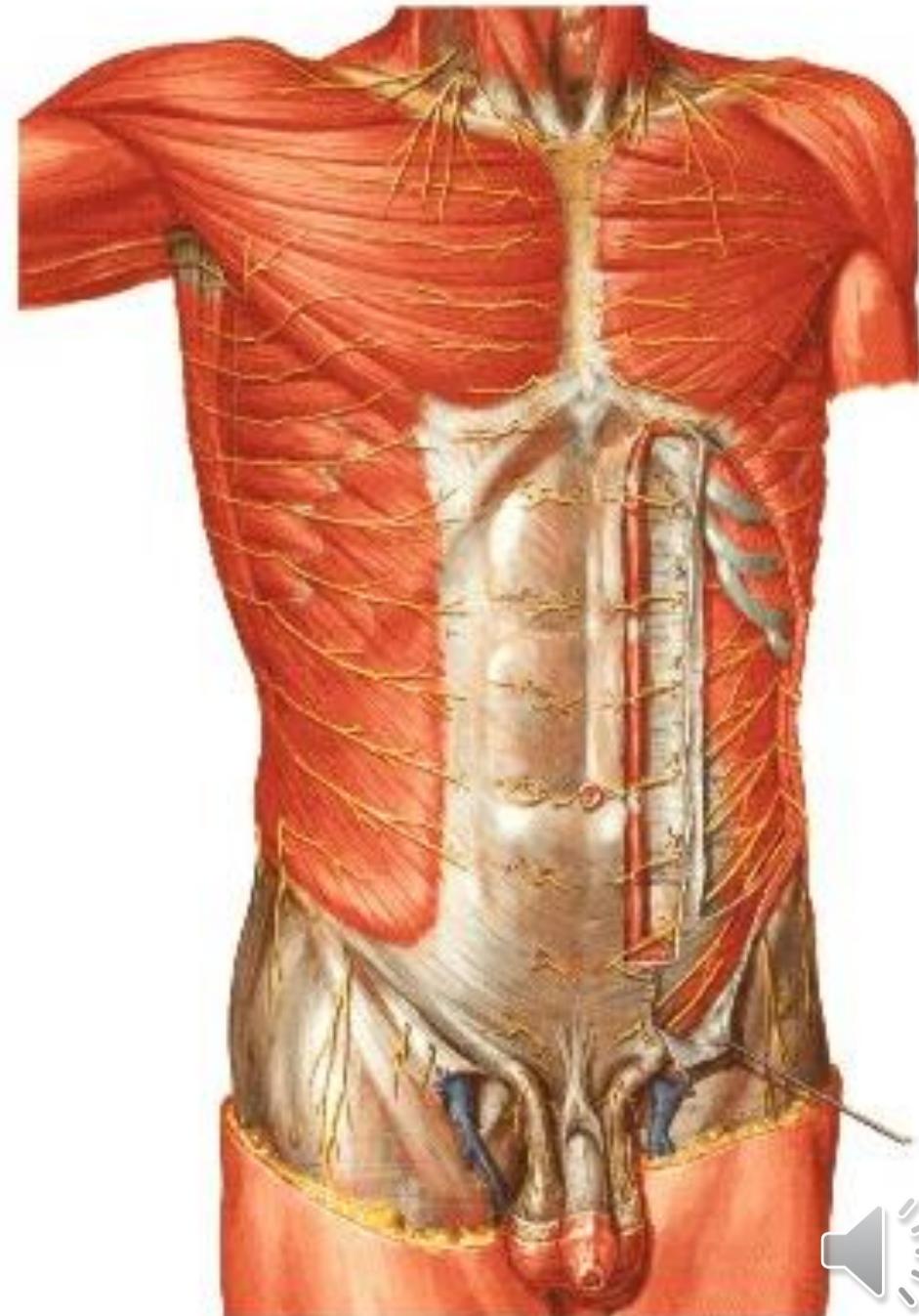
Caput medusae



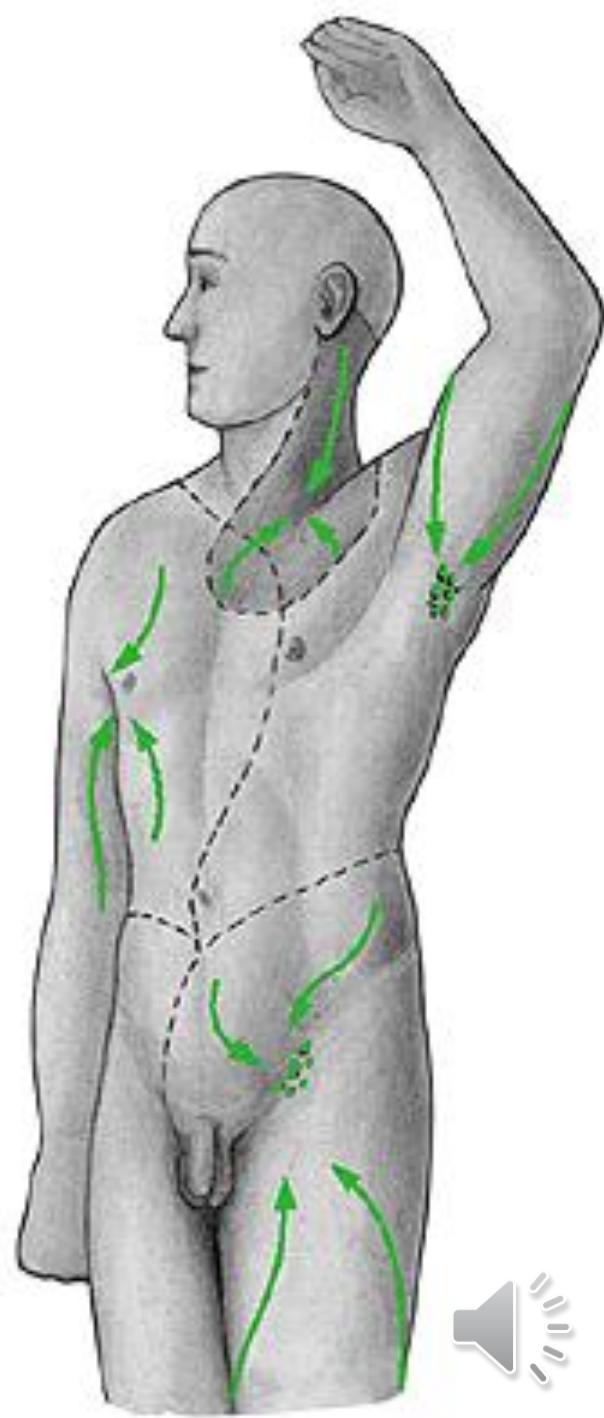
- A. EPIGASTRICA SPF.
- A. CIRCUMFLEXA ILIUM SPF.
- A. EPIGASTRICA SUP.
- AA. INTERCOSTALES
- A. SUBCOSTALIS
- AA. LUMBALES



NN. INTERCOSTALES
N. SUBCOSTALIS
N. ILOHYPOGASTRICUS
N. ILOINGINALIS

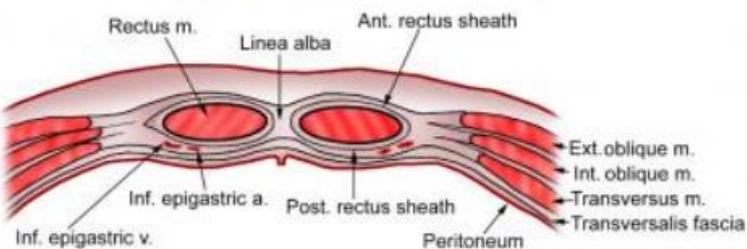


NODI LYMPHATICI AXILLARES NODI LYMPHATICI INGUINALES SPF.

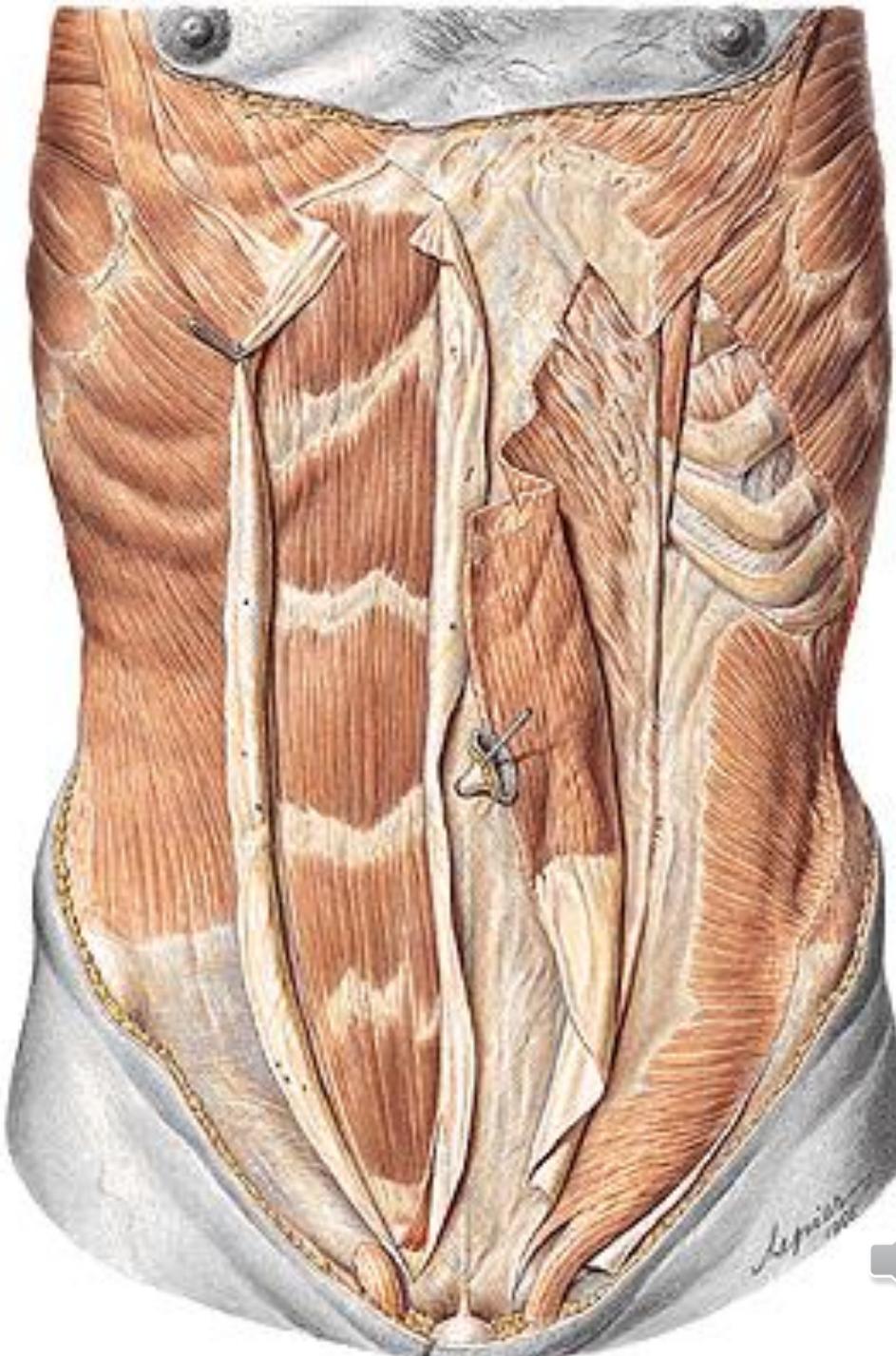
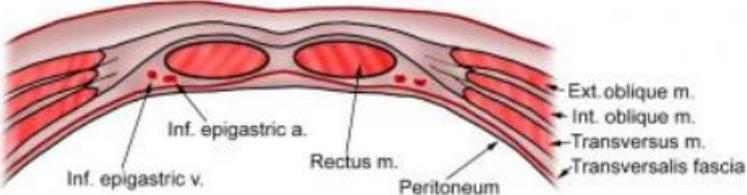


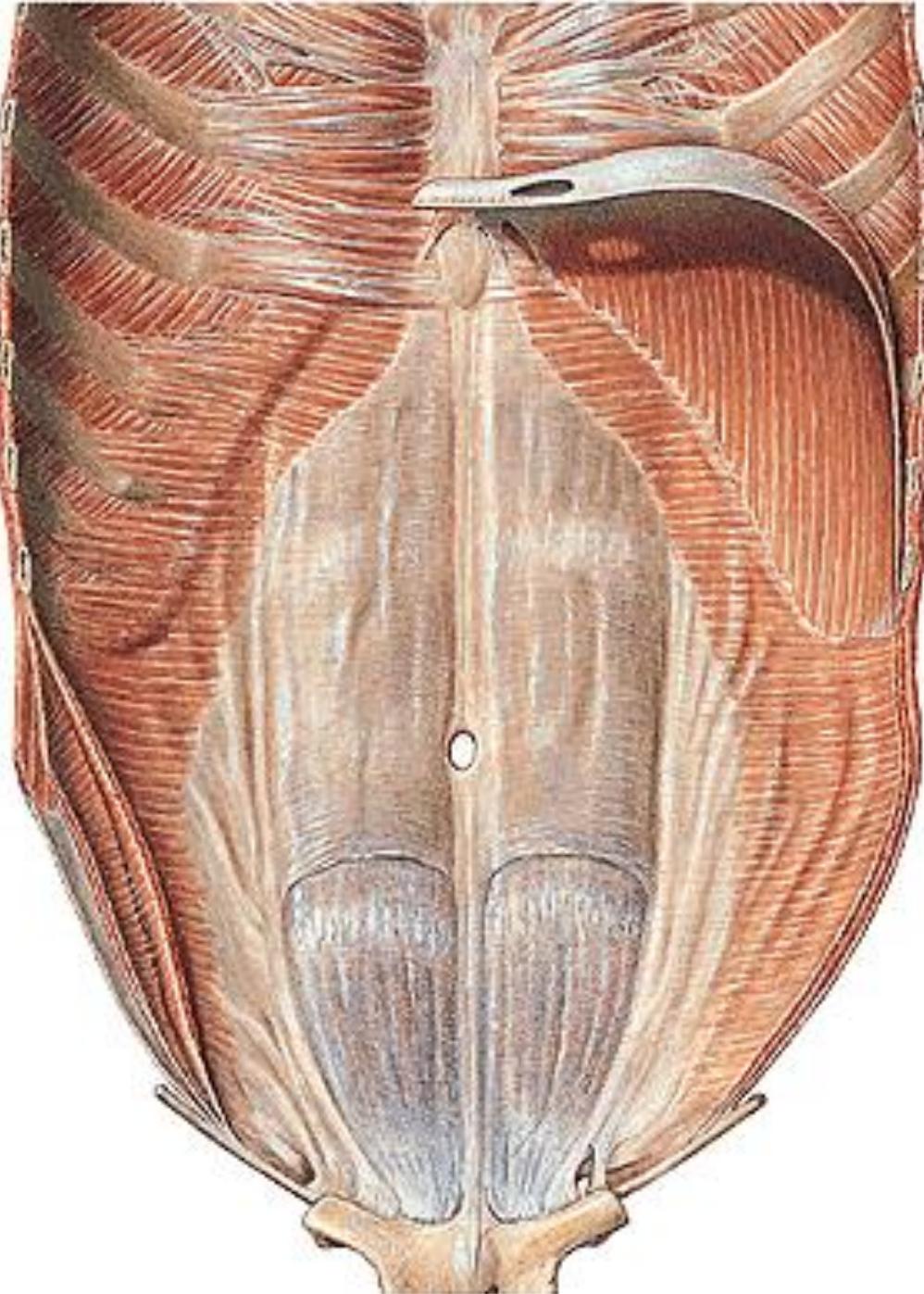
VAGINA M. RECTI ABDOMINIS

Above Arcuate Line



Below Arcuate Line





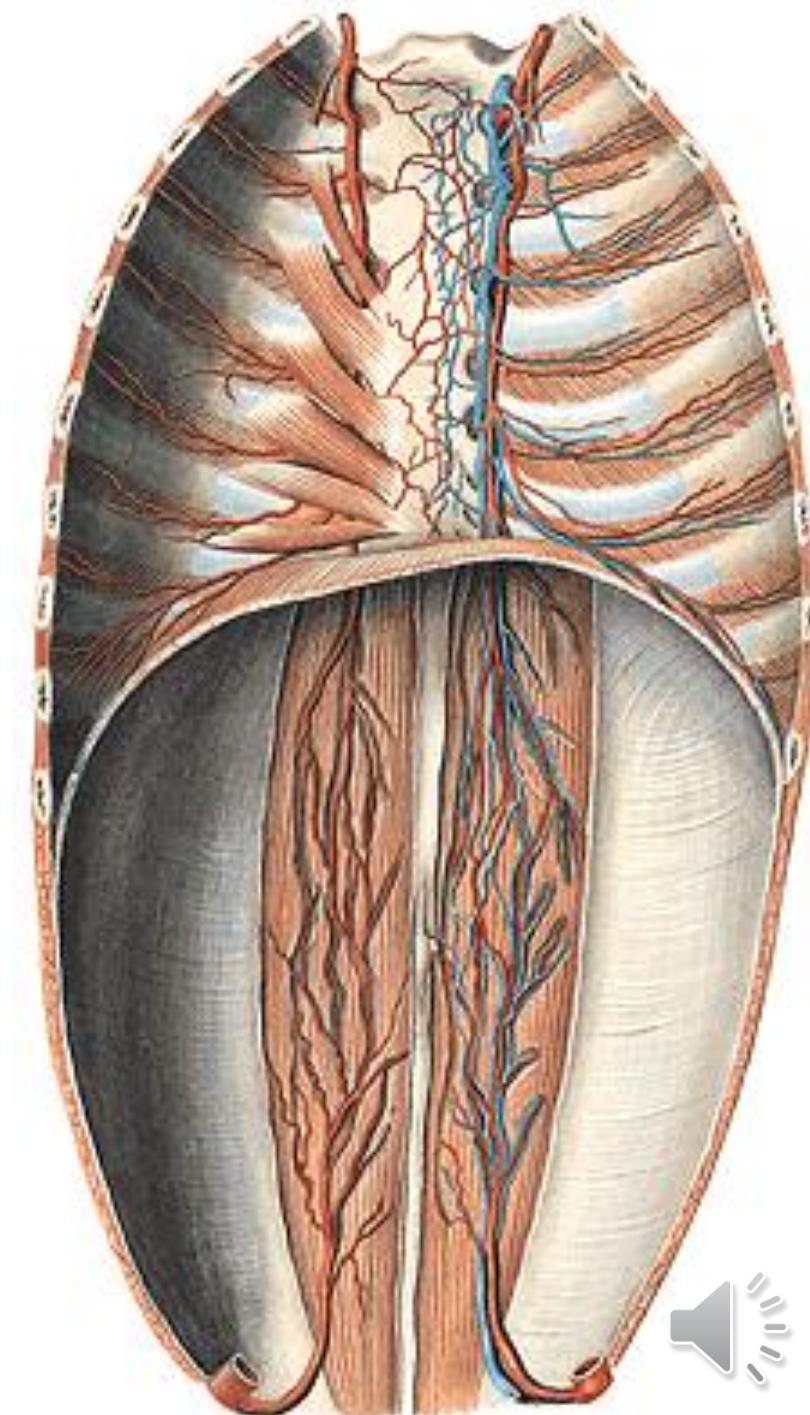
LINEA ARCUATA



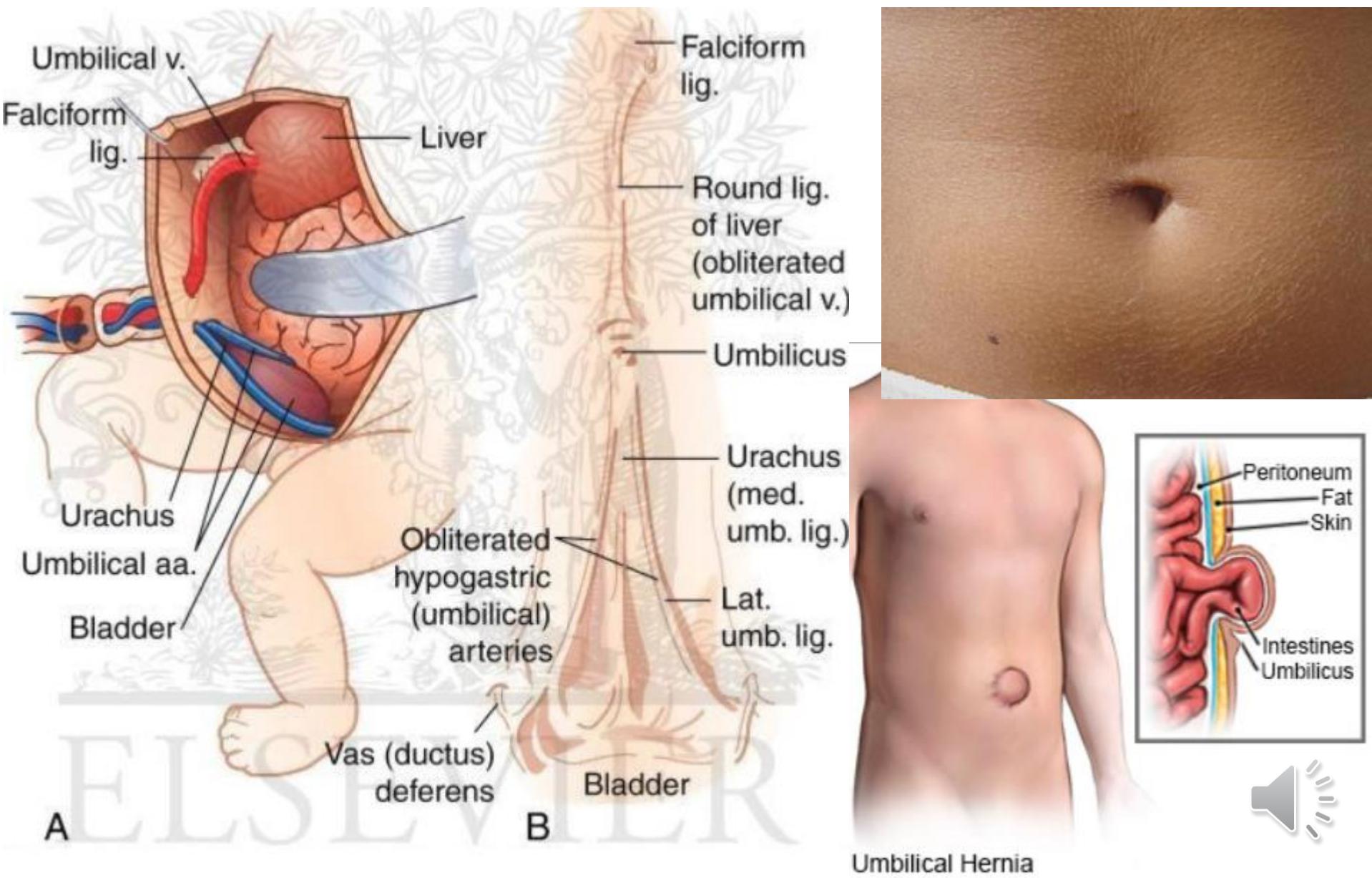
A. EPIGASTRICA SUP.
A. EPIGASTRICA INF.
A. CIRCUMFLEXA ILIUM PROF.
AA. INTERCOSTALES
A. SUBCOSTALIS
AA. LUMBALES

NLL. LUMBALES
NLL. ILLIACI

NN. INTERCOSTALES
N. SUBCOSTALIS
N. ILOHYPOGASTRICUS
N. ILOINGUINALIS



REGIO UMBILICALIS



Plica umbilicalis mediana

- lig. umbilicale medianum
(chorda urachi)

Fossa supravesicalis

Plica umbilicalis medialis

- lig. umbilicale mediale (laterale)
(pars occlusa a. umbilicalis s.
chorda umbilicalis)

Fossa inguinalis medialis

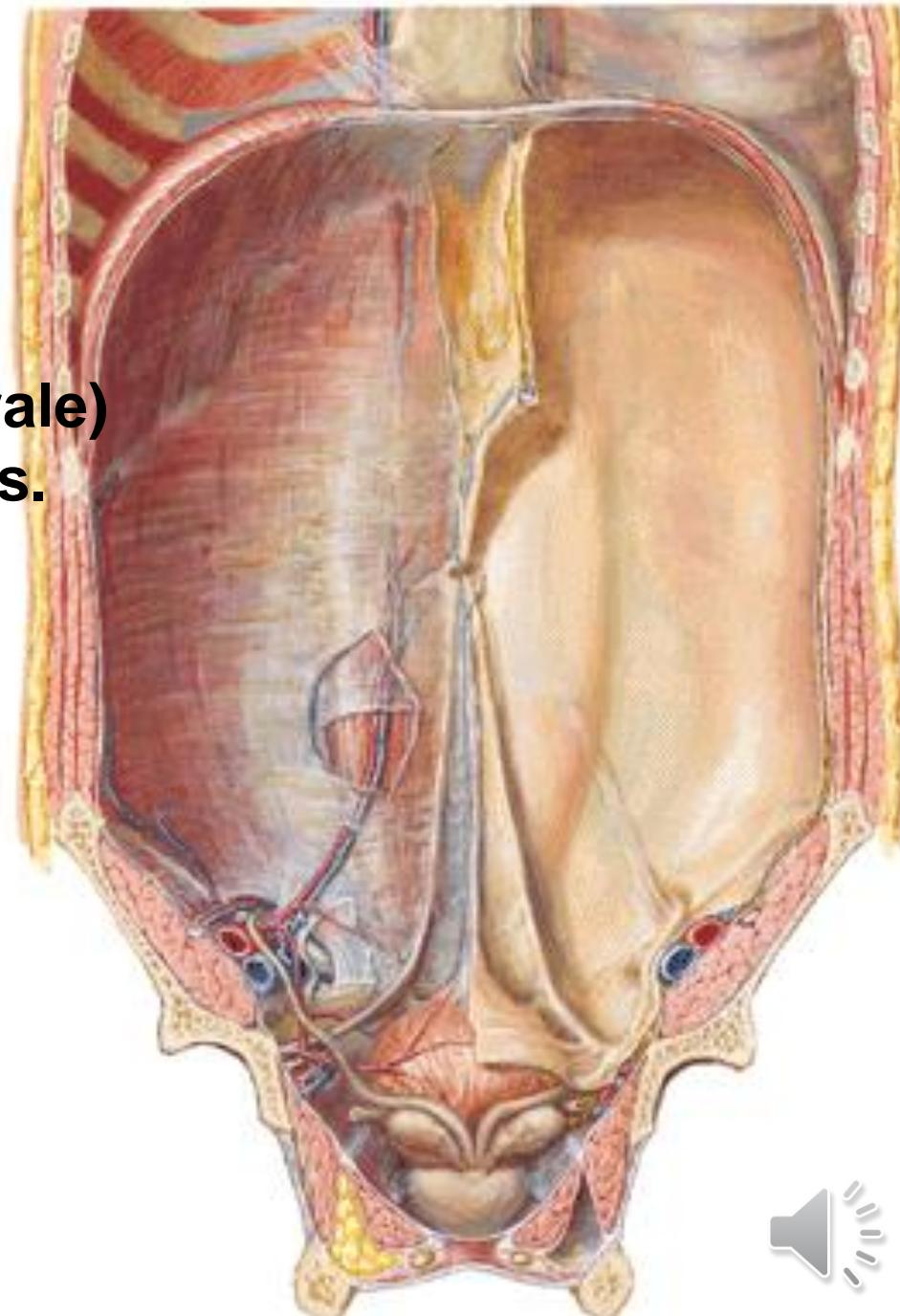
- direct inguinal hernia

Plica umbilicalis lateralis

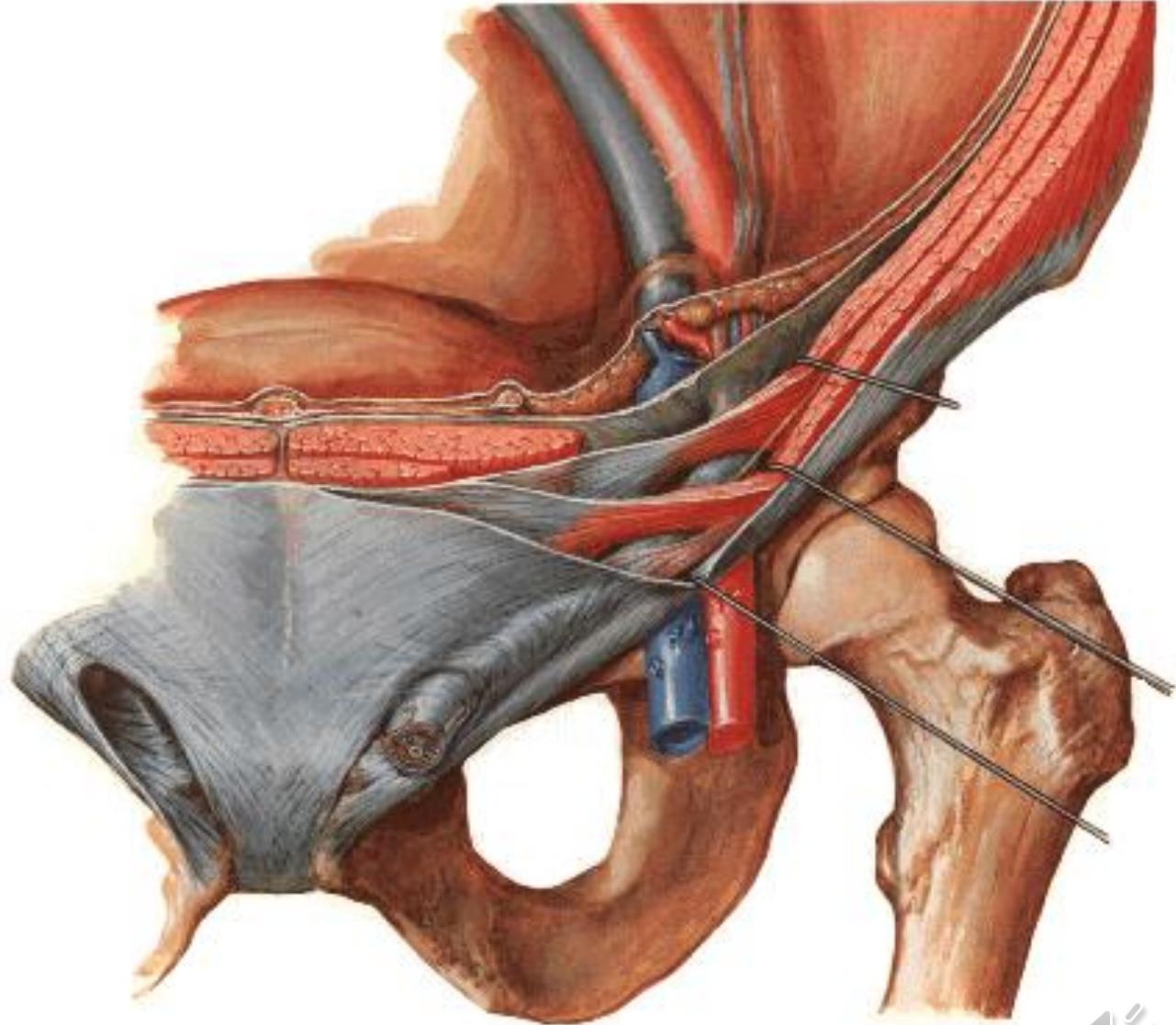
- vasa epigastrica inf.

Fossa inguinalis lateralis

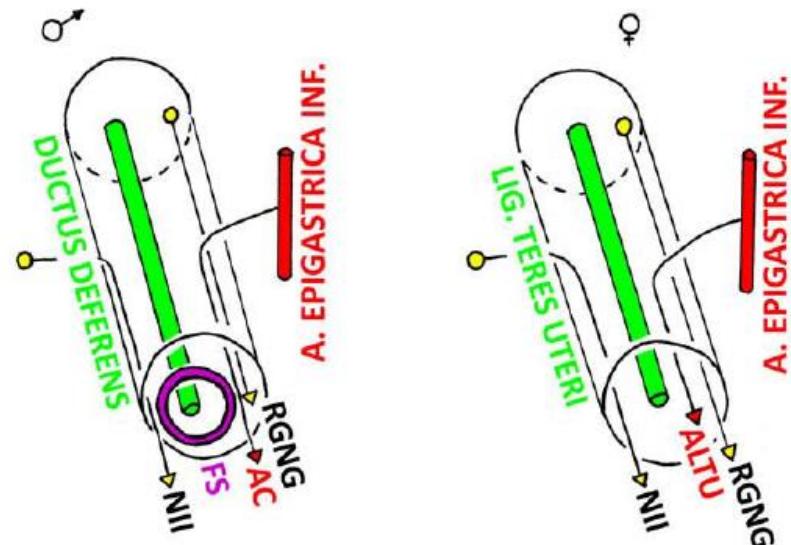
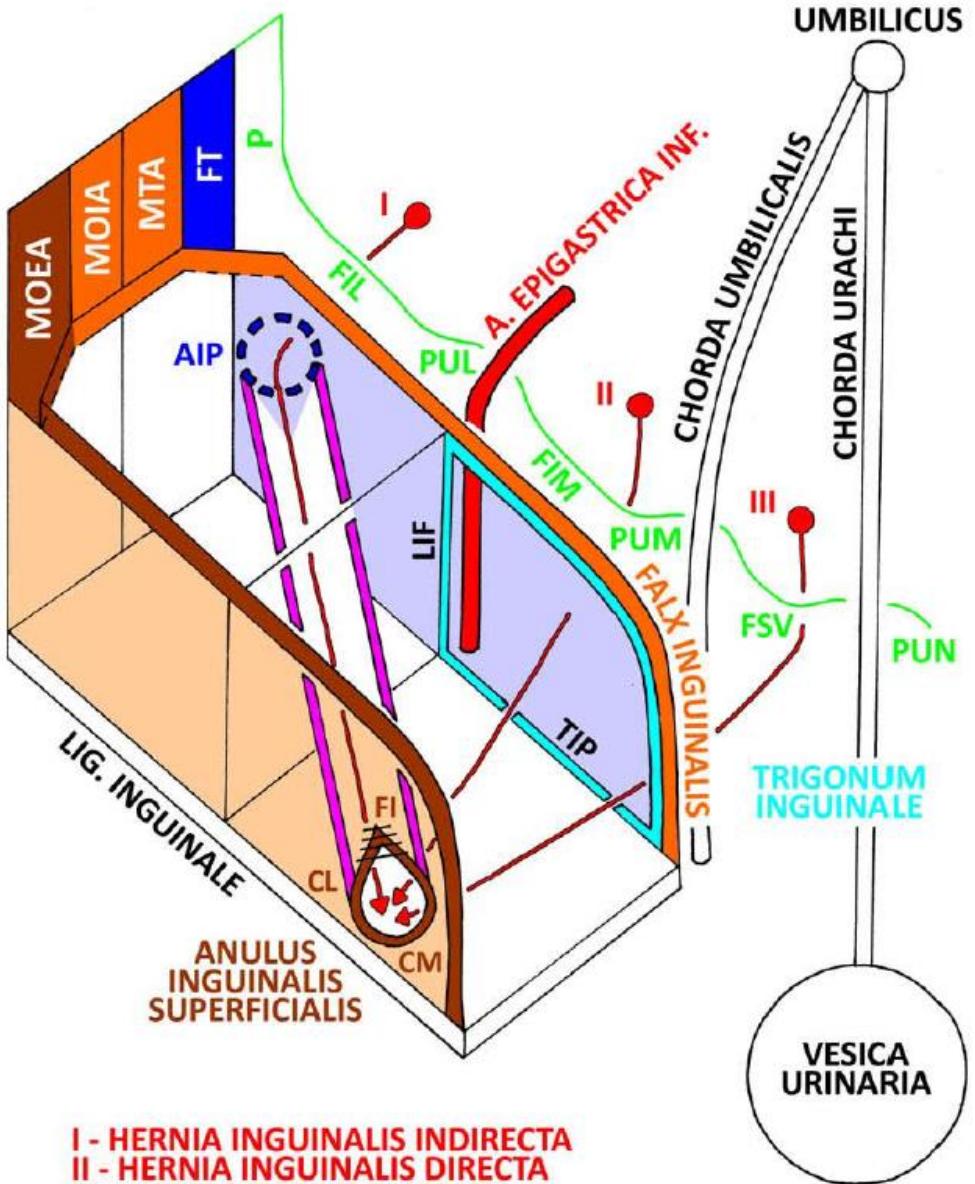
- indirect inguinal hernia



CANALIS INGUINALIS



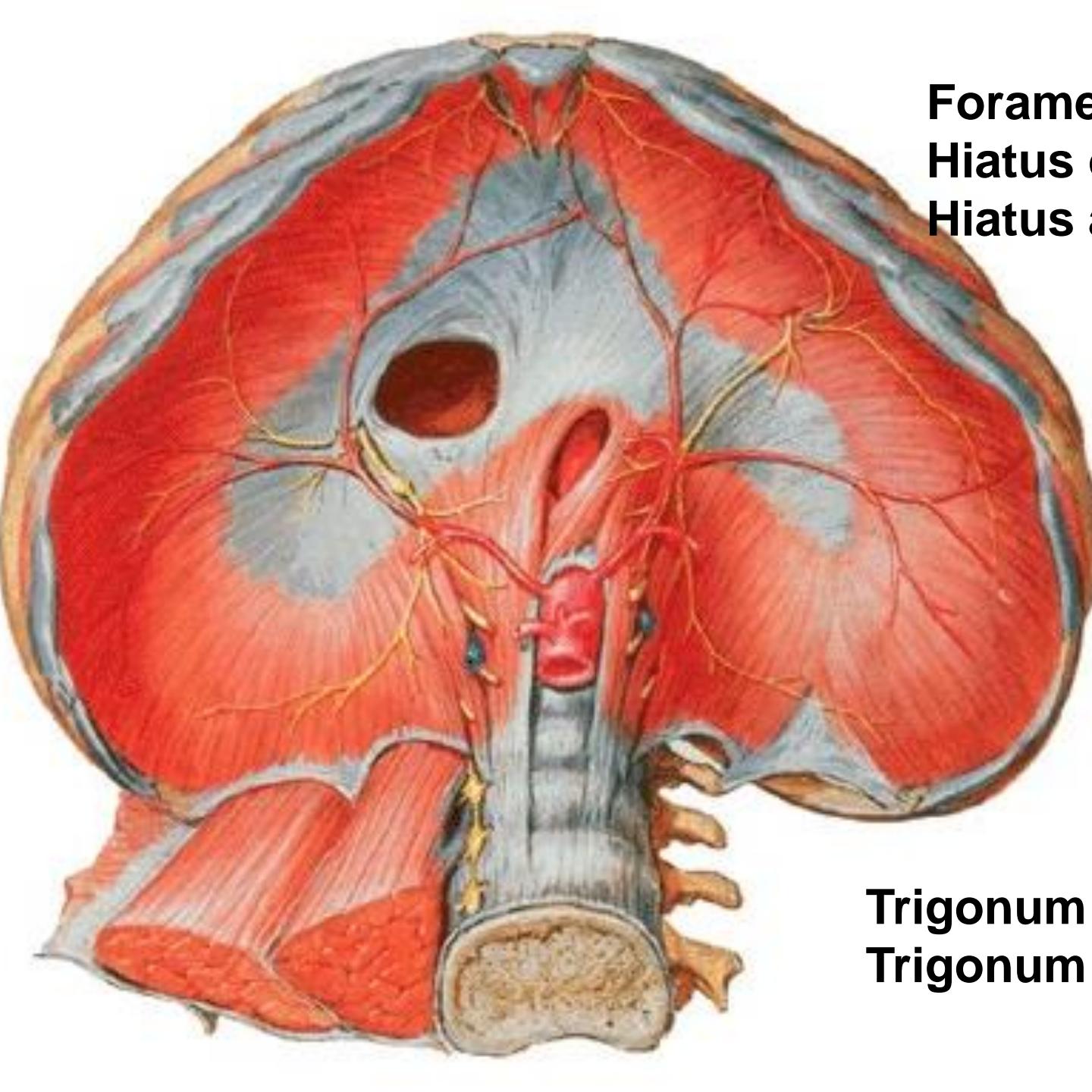
CANALIS INGUINALIS



MOEA - M. OBLIQUUS EXTERNUS ABDOMINIS
MOIA - M. OBLIQUUS INTERNUS ABDOMINIS
MTA - M. TRANSVERSUS ABDOMINIS
FT - FASCIA TRANSVERSALIS
AIP - ANULUS INGUINALIS PROFUNDUS
P - PERITONEUM
FIL - FOSSA INGUINALIS LAT.
PUL - PLICA UMBILICALIS LATERALIS
LIF - LIG. INTERFOVEOLARE
FIM - FOSSA INGUINALIS MED.
PUM - PLICA UMBILICALIS MEDIALIS
FSV - FOSSA SUPRAVESICALIS
PUN - PLICA UMBILICALIS MEDIA
TIP - TRACTUS ILOPUBICUS
FI - FIBRAE INTERCRURALES
CL - CRUS LATERALE
CM - CRUS MEDIALE

NII - N. ILLIOINGUINALIS
FS - FUNICULUS SPERMATICUS
AC - A. CREMASTERICA
RGNG - R. GENITALIS N. GENITO FEMORALIS
ALTU - A. LIGAMENTI TERETIS UTERI





Foramen v. cavae inf.
Hiatus oesophageus
Hiatus aorticus

Trigonum sternocostale
Trigonum lumbocostale



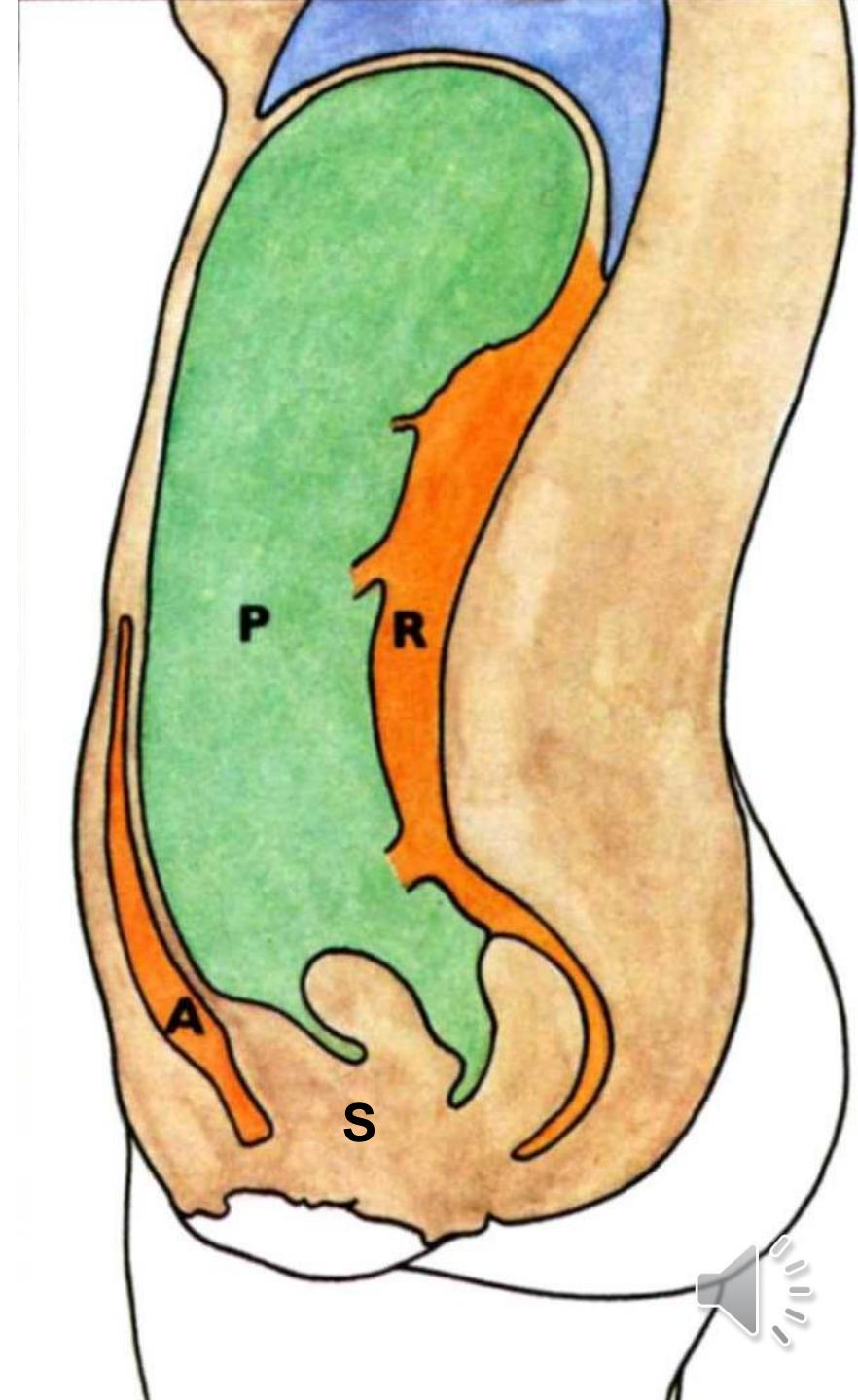
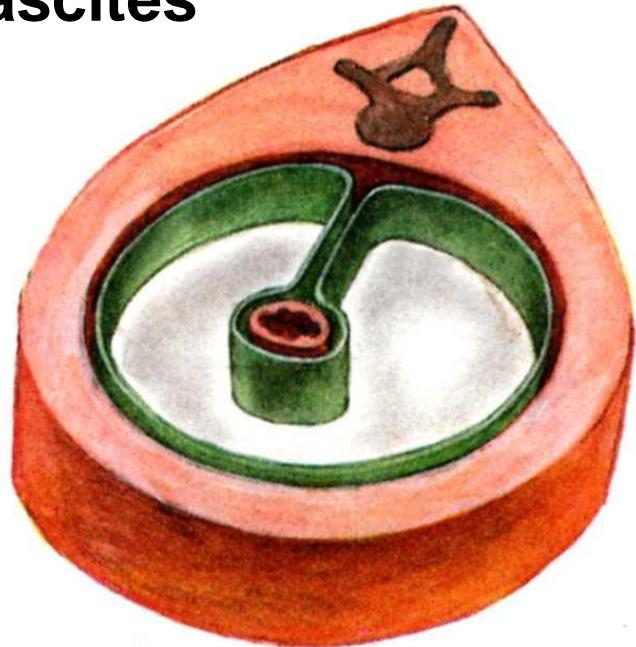
PERITONEAL CAVITY



CAVITAS ABDOMINALIS

P – cavitas peritonealis
A – spatium preperitoneale
R – spatium retroperitoneale
S – spatium subperitoneale
(infraperitoneale)

ascites



Intraperitoneal organs:

Abdominal part of the oesophagus, stomach, superior part of the duodenum, jejunum, ileum, appendix vermiformis, colon transversum, colon sigmoideum, liver, spleen

Secondarily retroperitoneal organs:

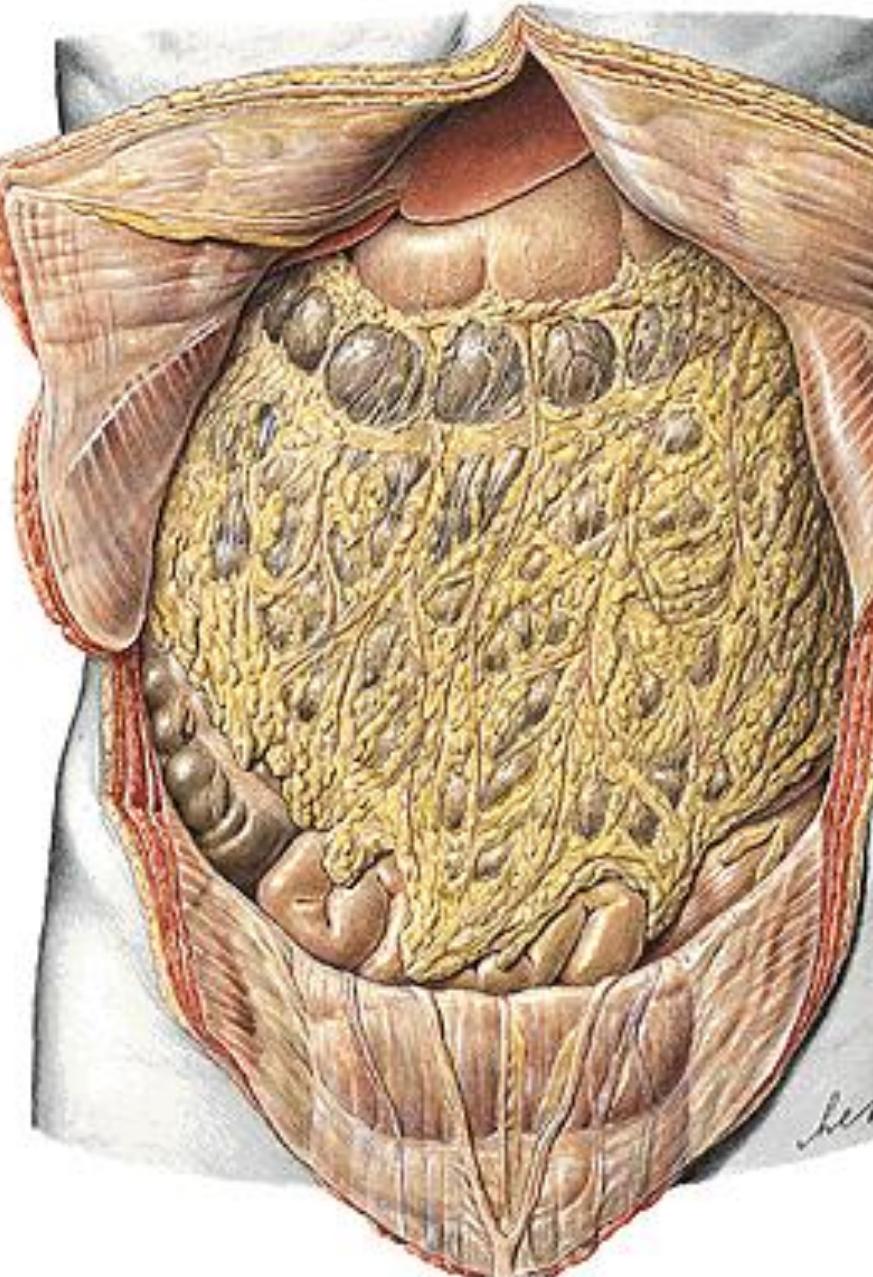
Most of duodenum, pancreas, caecum, colon ascendens, colon descendens

Primarily retroperitoneal organs:

Kidneys, suprarenal glands, aorta, vena cava inf.

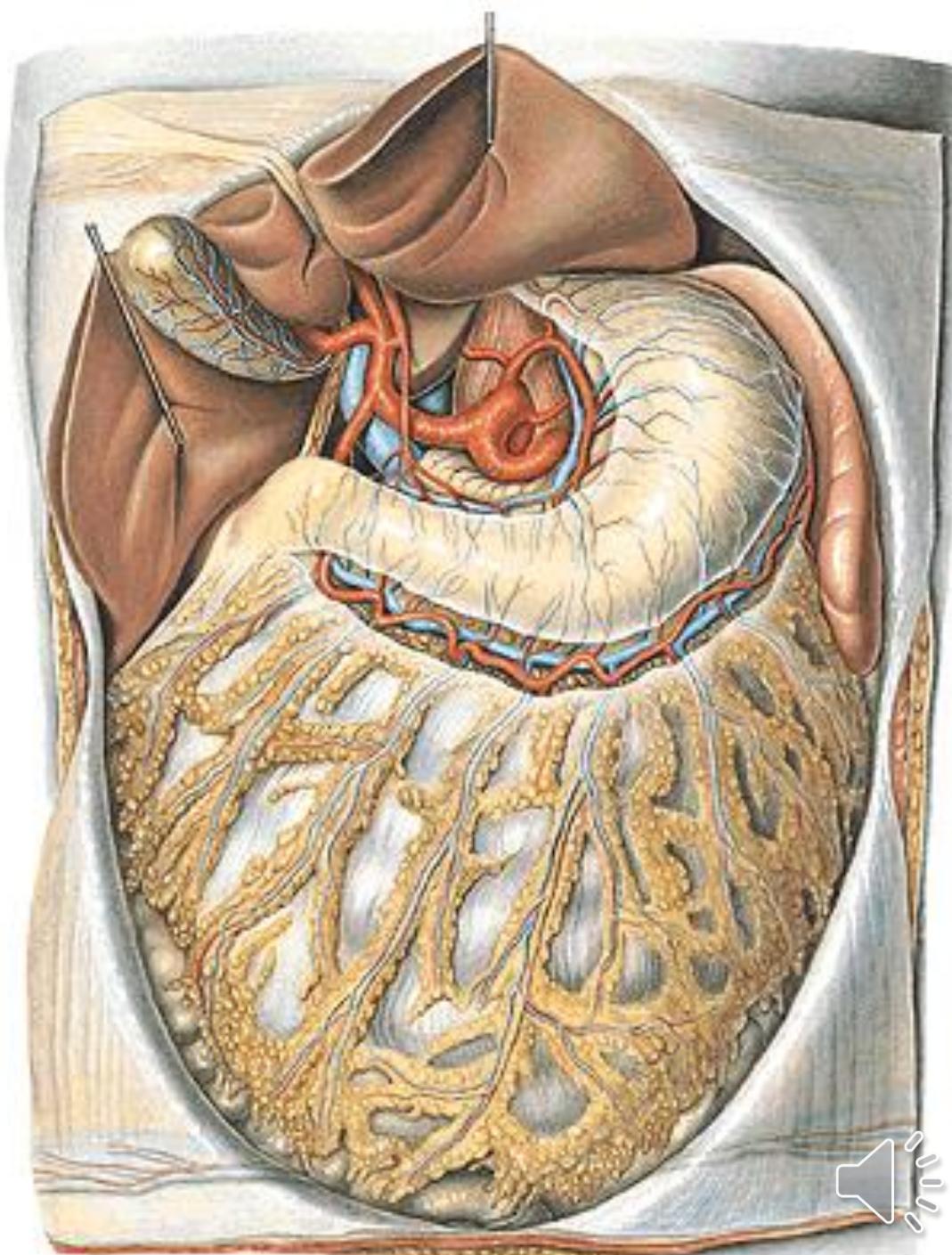


Cavitas peritonealis - pars supramesocolica, inframesocolica



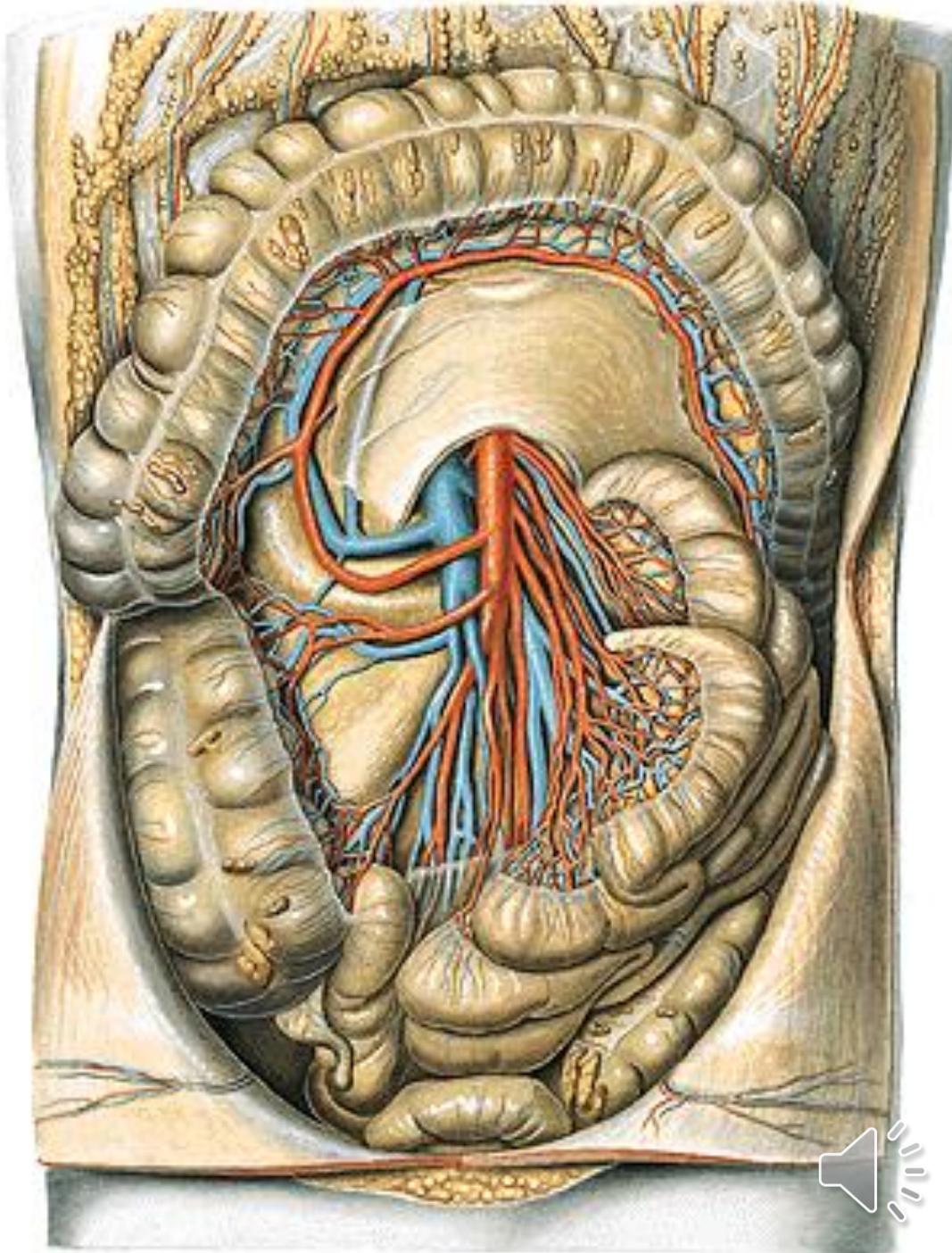
Pars supramesocolica

Truncus coeliacus



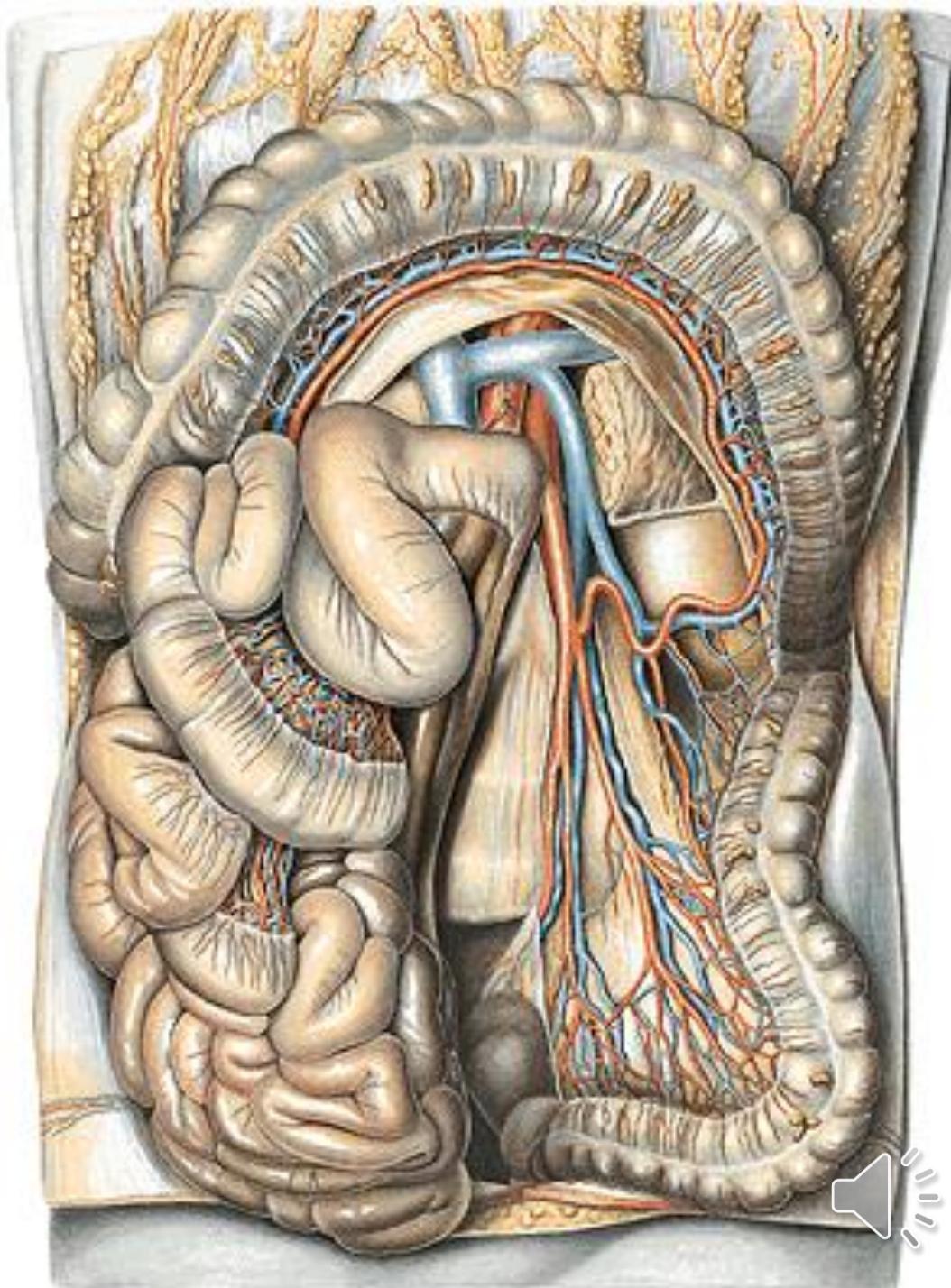
Right infra(meso)colic compartment

A. mesenterica superior



Left infra(meso)colic compartment

A. mesenterica inferior



Omentum minus - lig. hepatogastricum

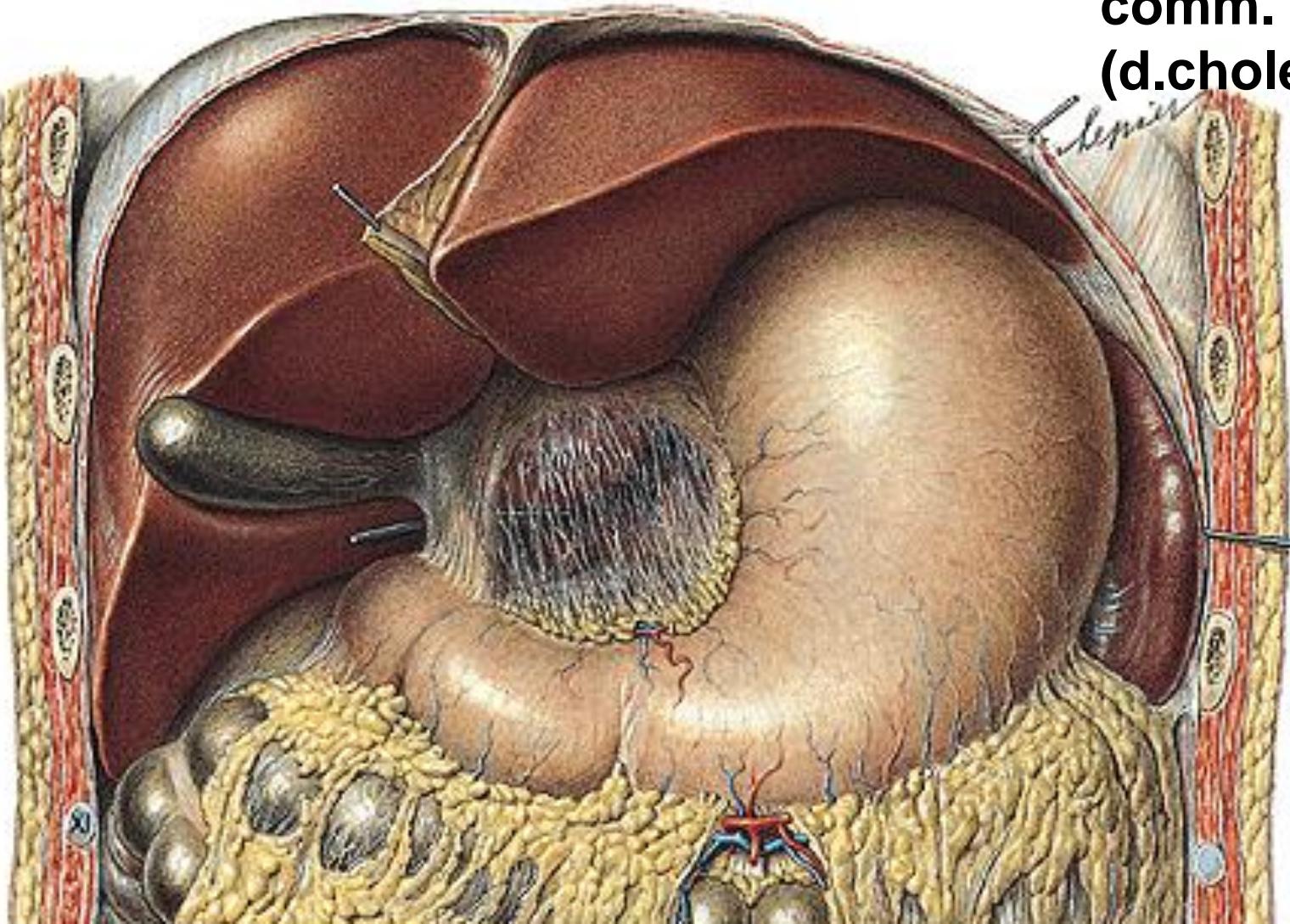
- lig. hepatoduodenale - a. hepatica propria

- v. portae

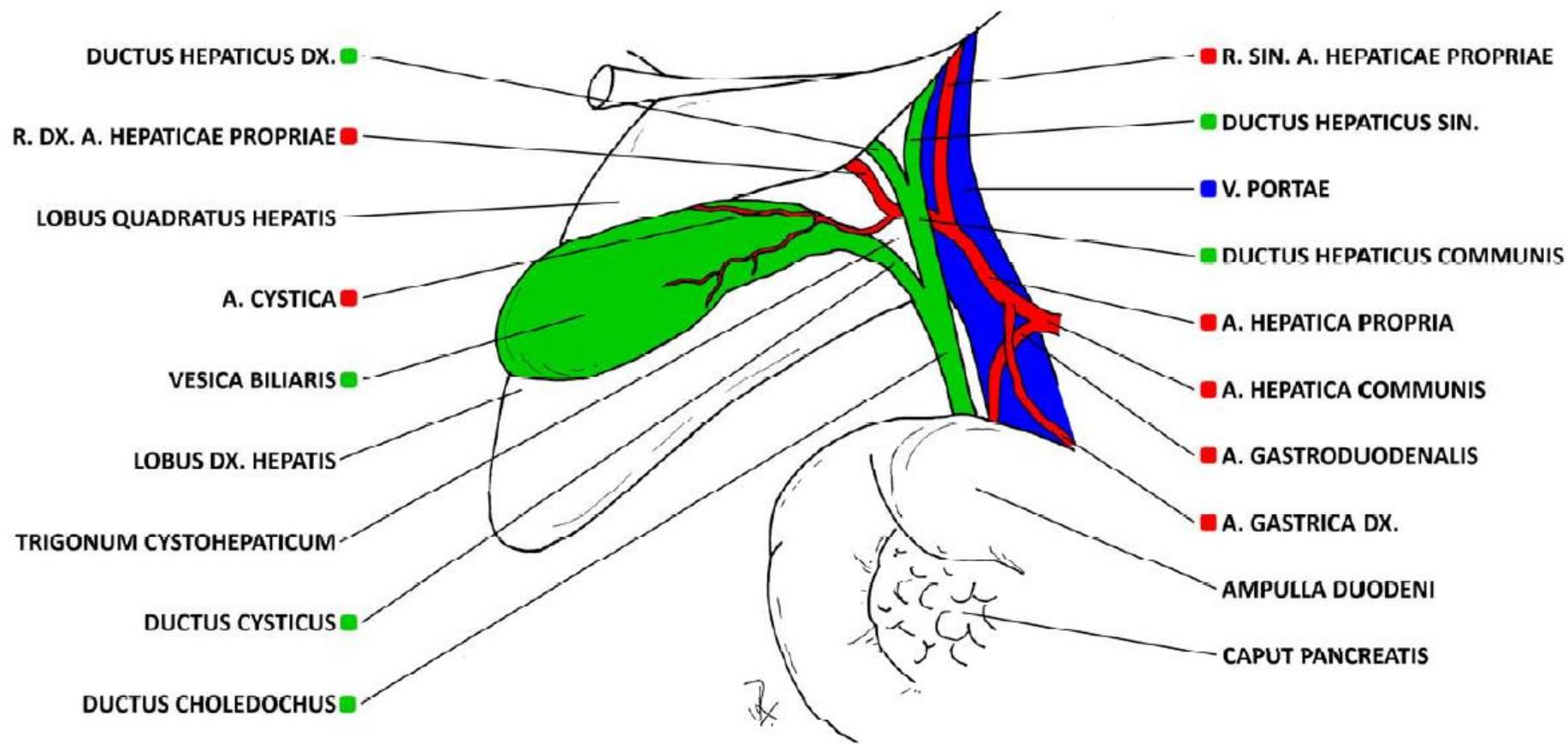
- ductus hepaticus

comm.

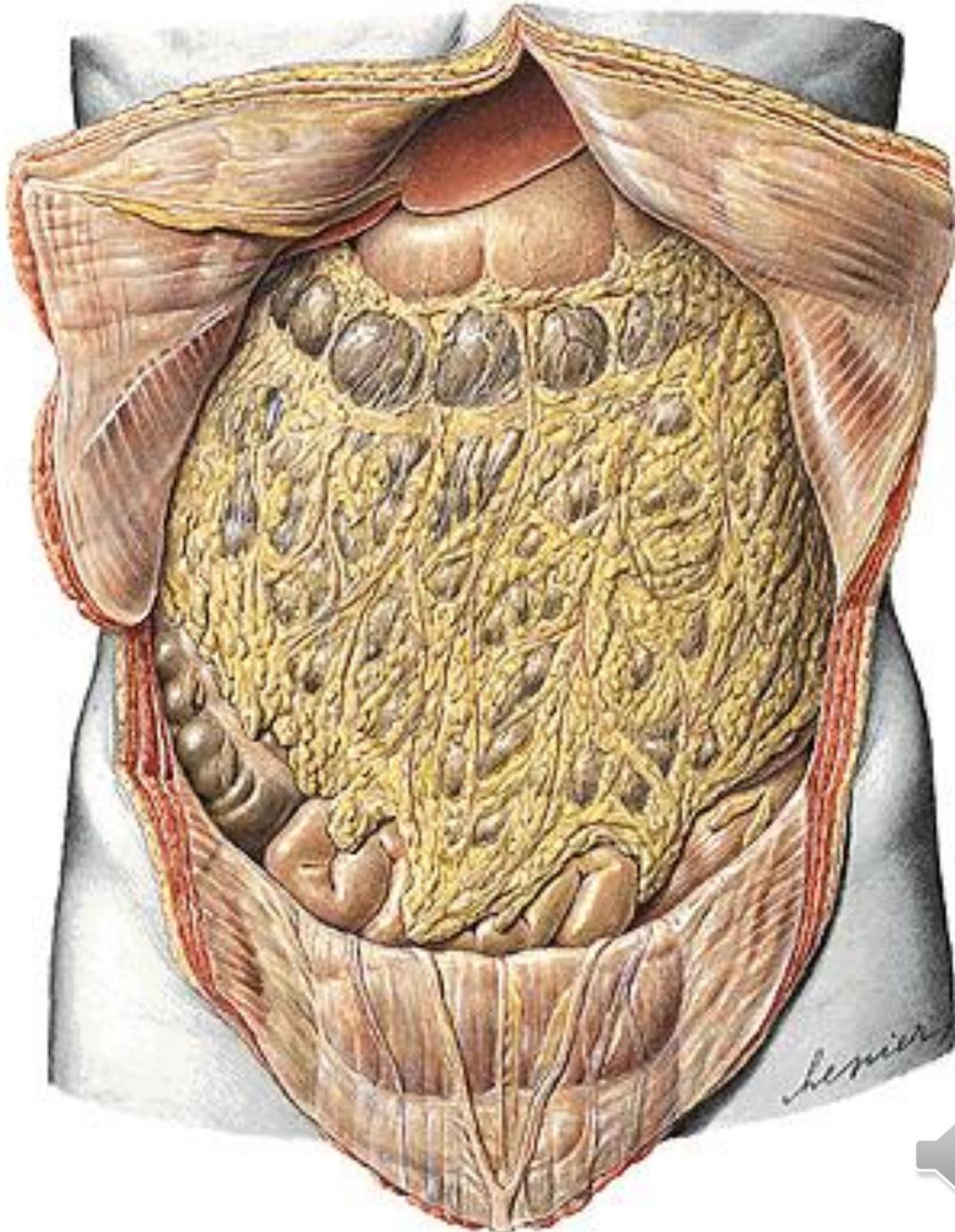
(d.choledochus)



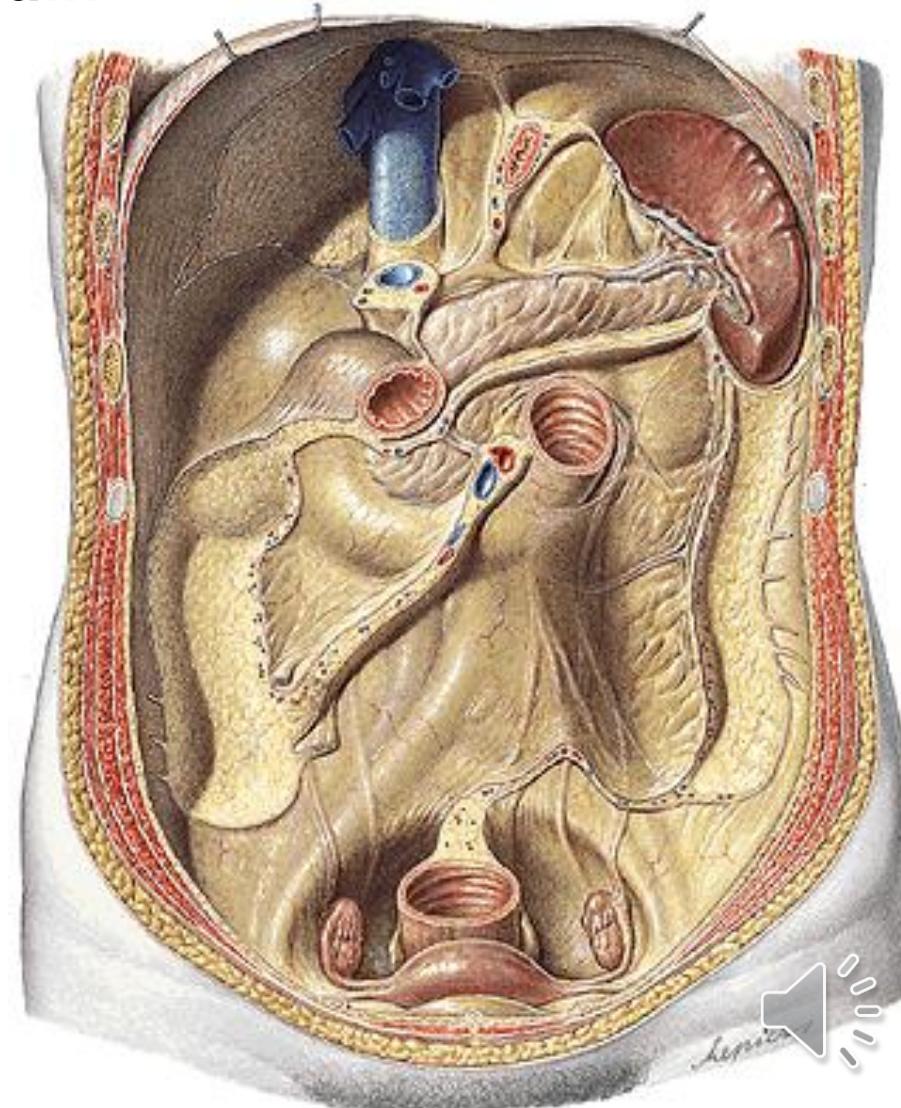
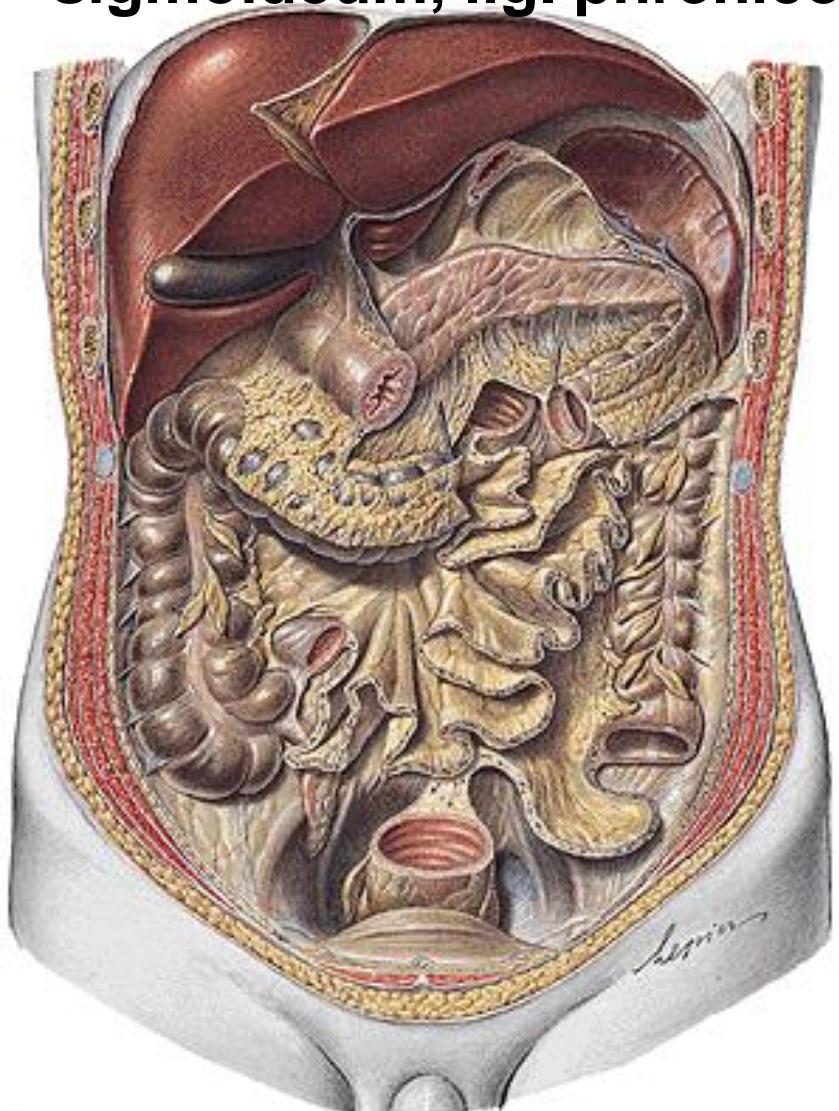
LIGAMENTUM HEPATODUODENALE



Omentum majus - lig. gastrocolicum



Lig. gastrosplenicum, phrenicosplenicum, splenorenale
Mesenterium – radix mesenterii
Mesocolon transversum, mesoappendix, mesocolon
sigmoideum, lig. phrenicocolicum

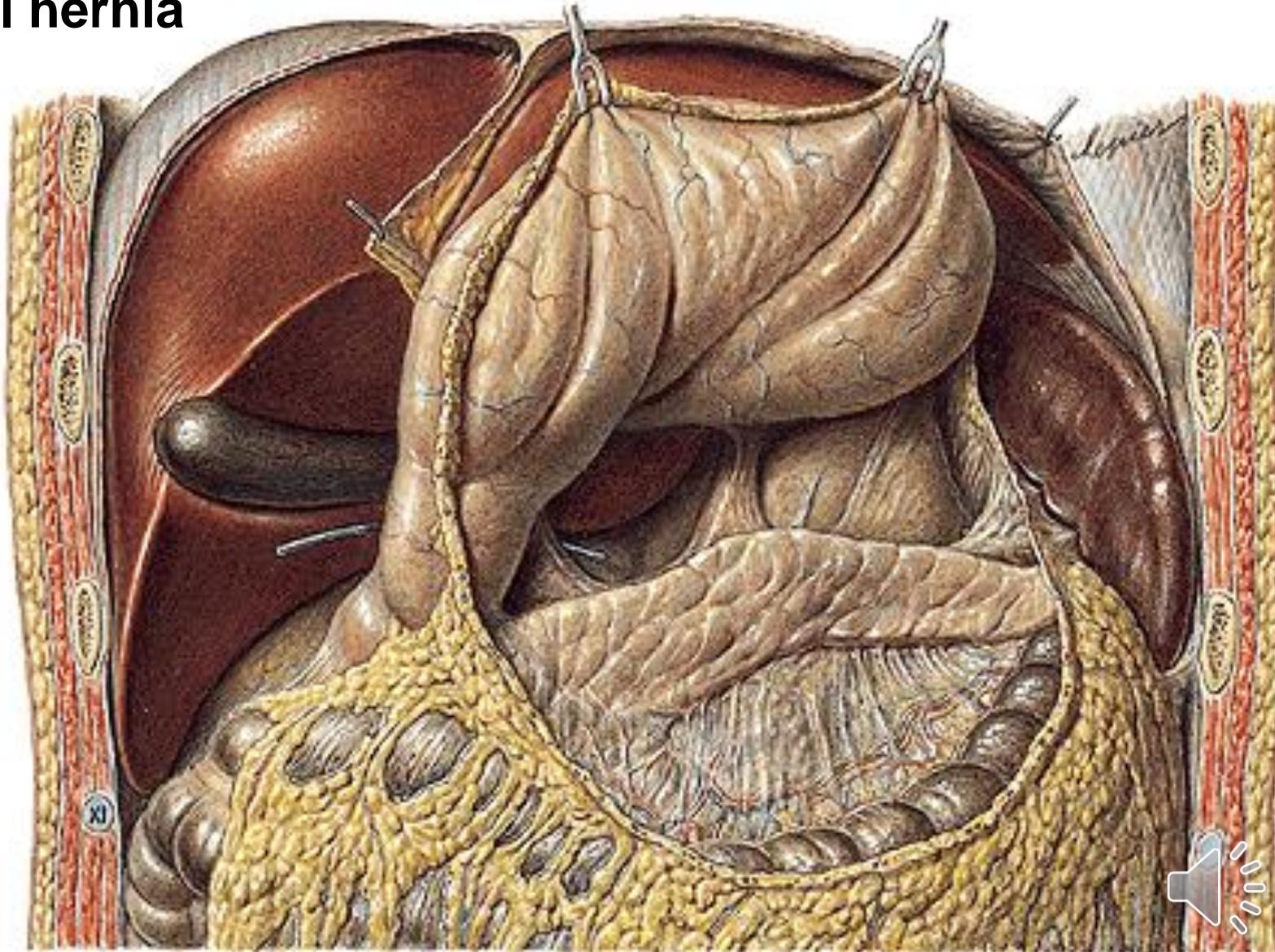


RECESSUS PERITONEI

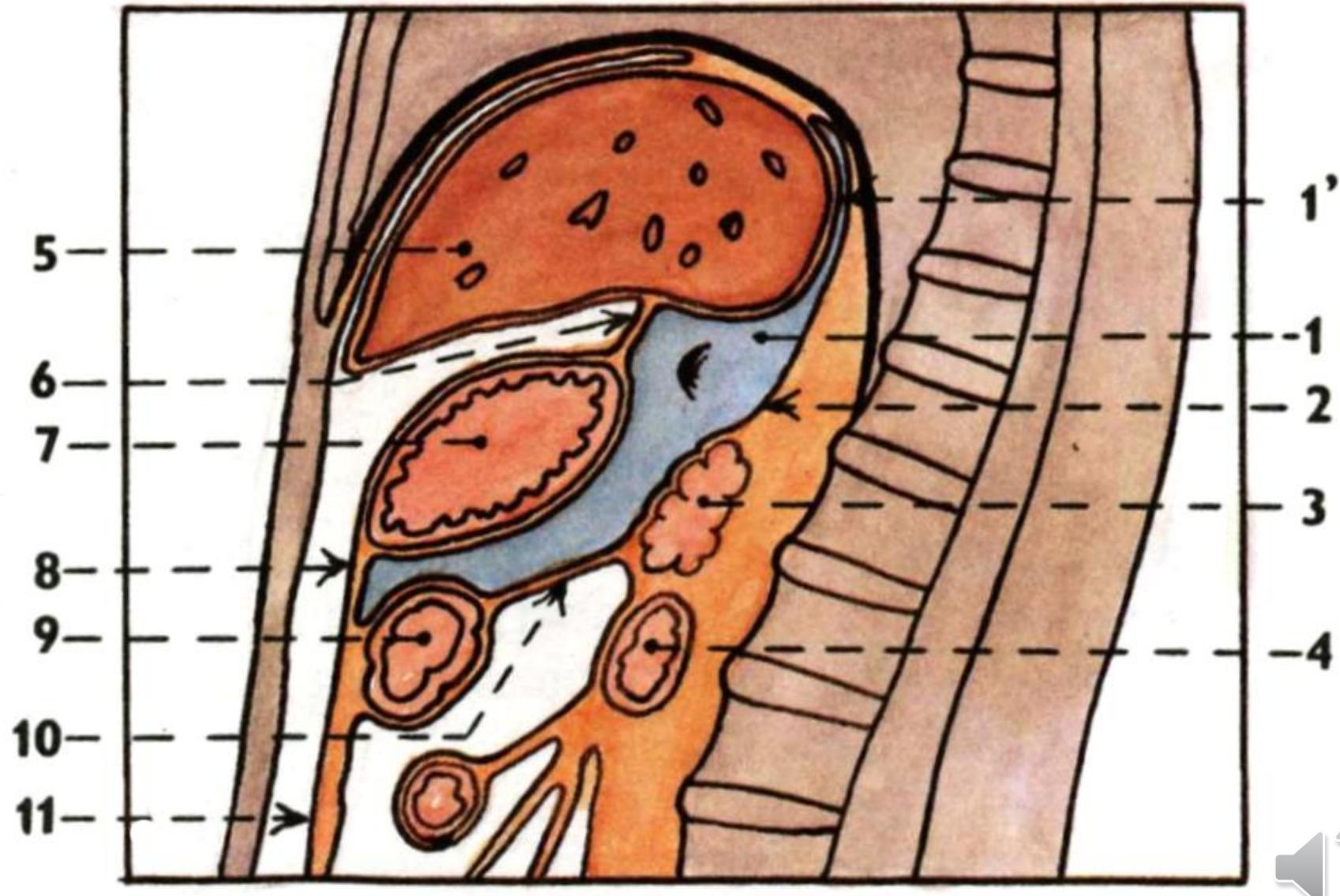


Bursa omentalis

Internal hernia

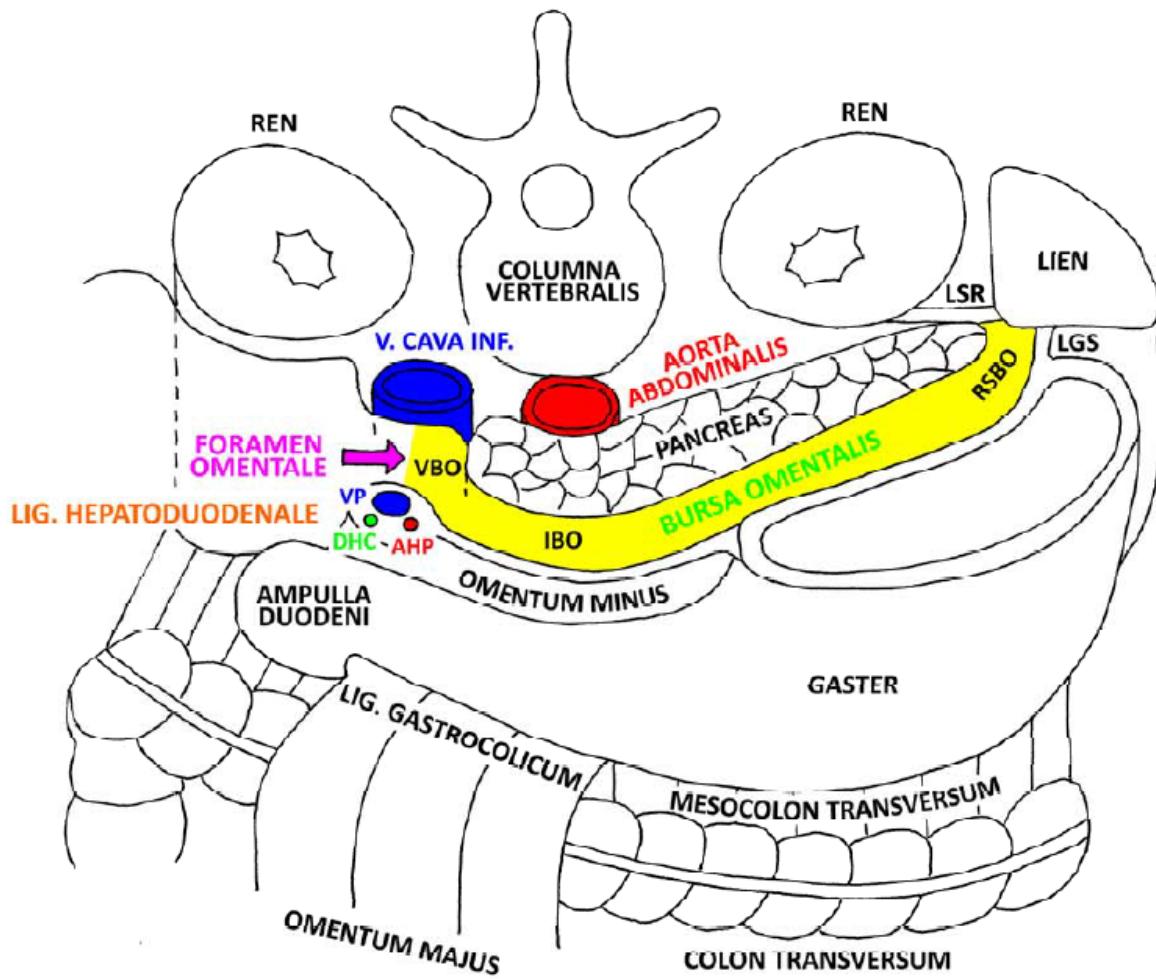


Bursa omentalis



BURSA OMENTALIS

Foramen omentale/epiploicum (Winslow)



LSR - LIG. SPLENORENALE
LGS - LIG. GASTROSPLENICUM
RSBO - RECESSUS SPLENICUS BURSAE OMENTALIS
IBO - ISTHMUS BURSAE OMENTALIS
VBO - VESTIBULUM BURSAE OMENTALIS

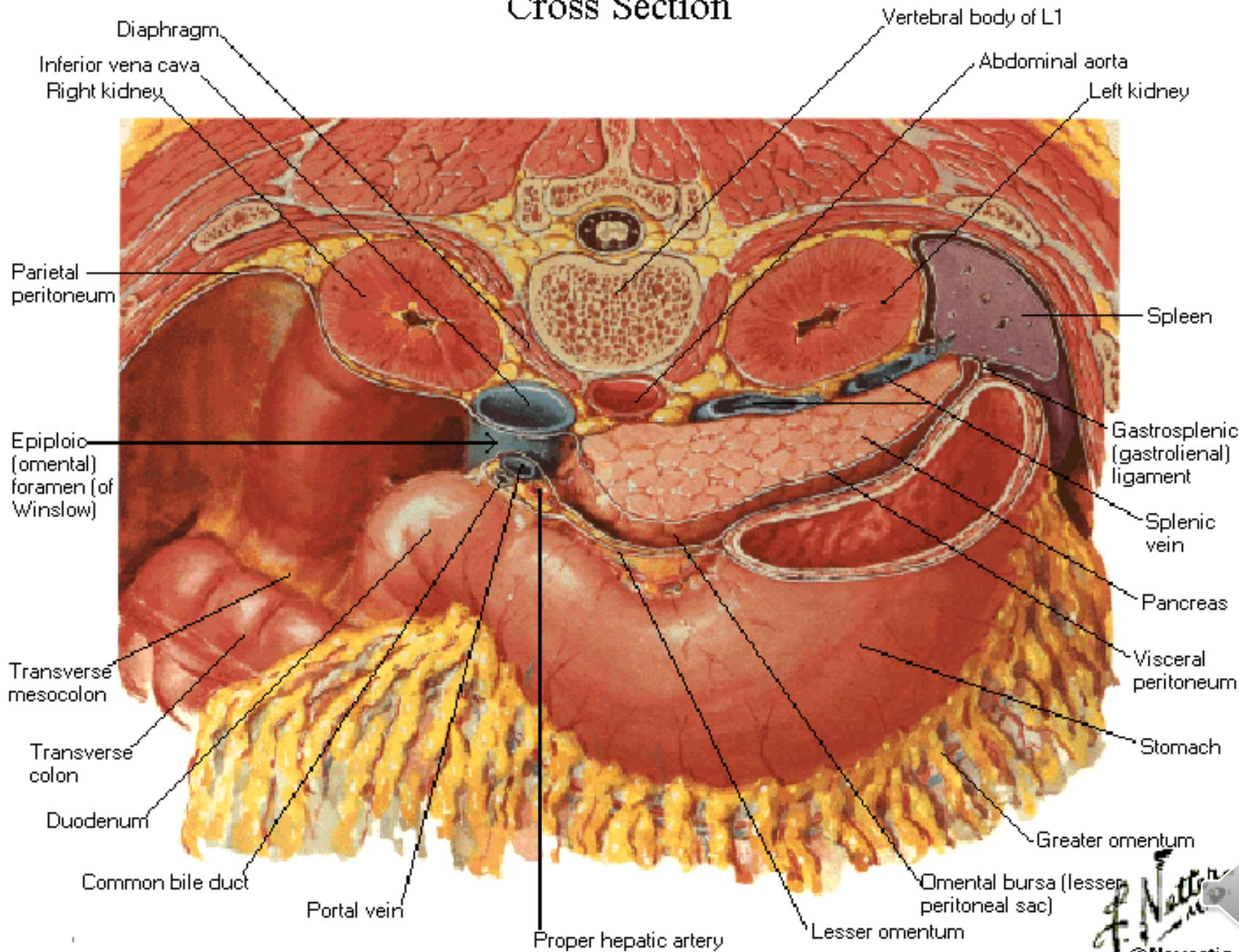
VP - V. PORTAE
DHC - DUCTUS HEPATICUS COMMUNIS
AHP - A. HEPATICA PROPRIA

(superior view)



Omental Bursa

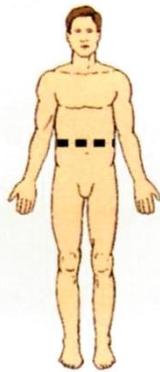
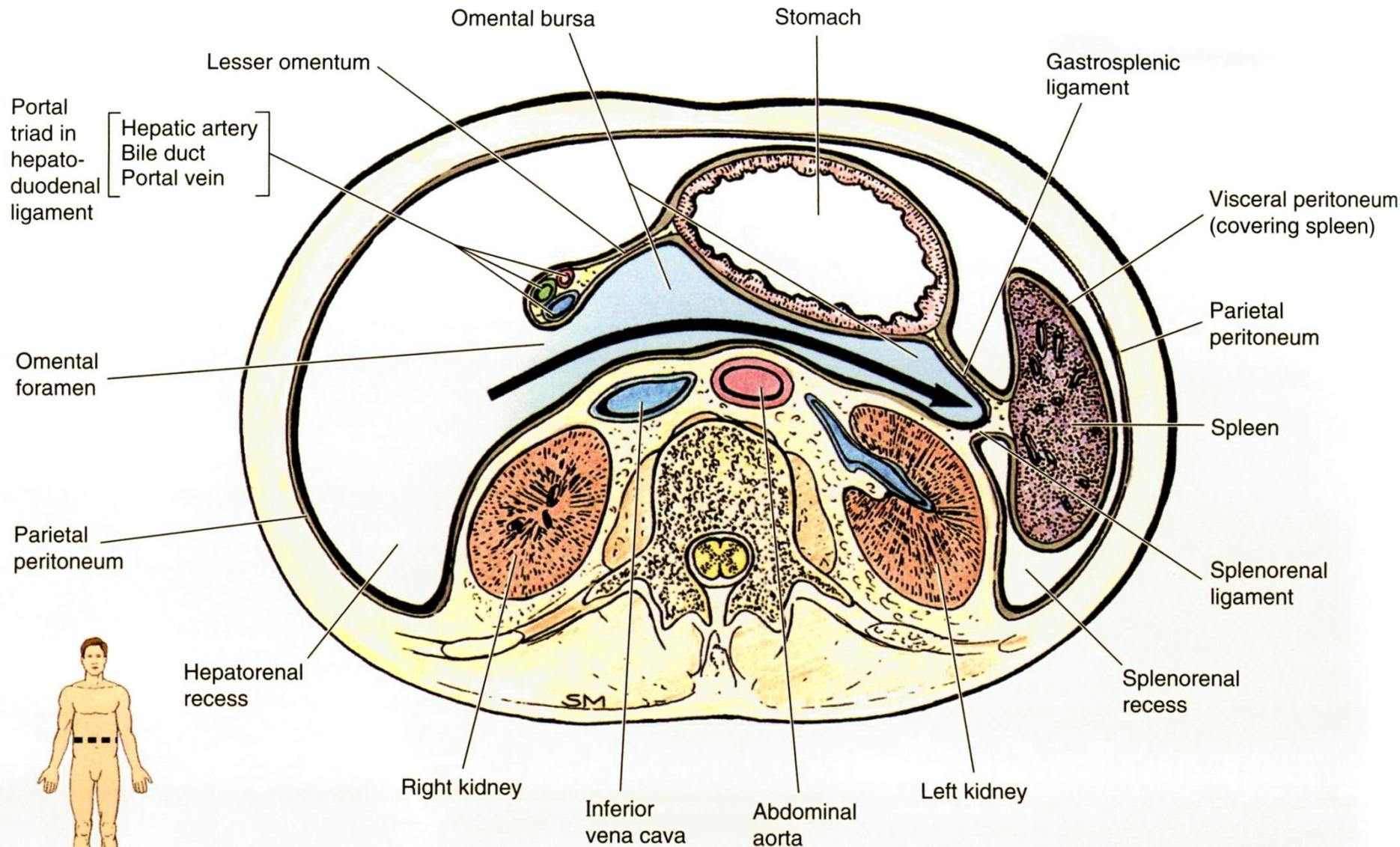
Cross Section



Recessus superior



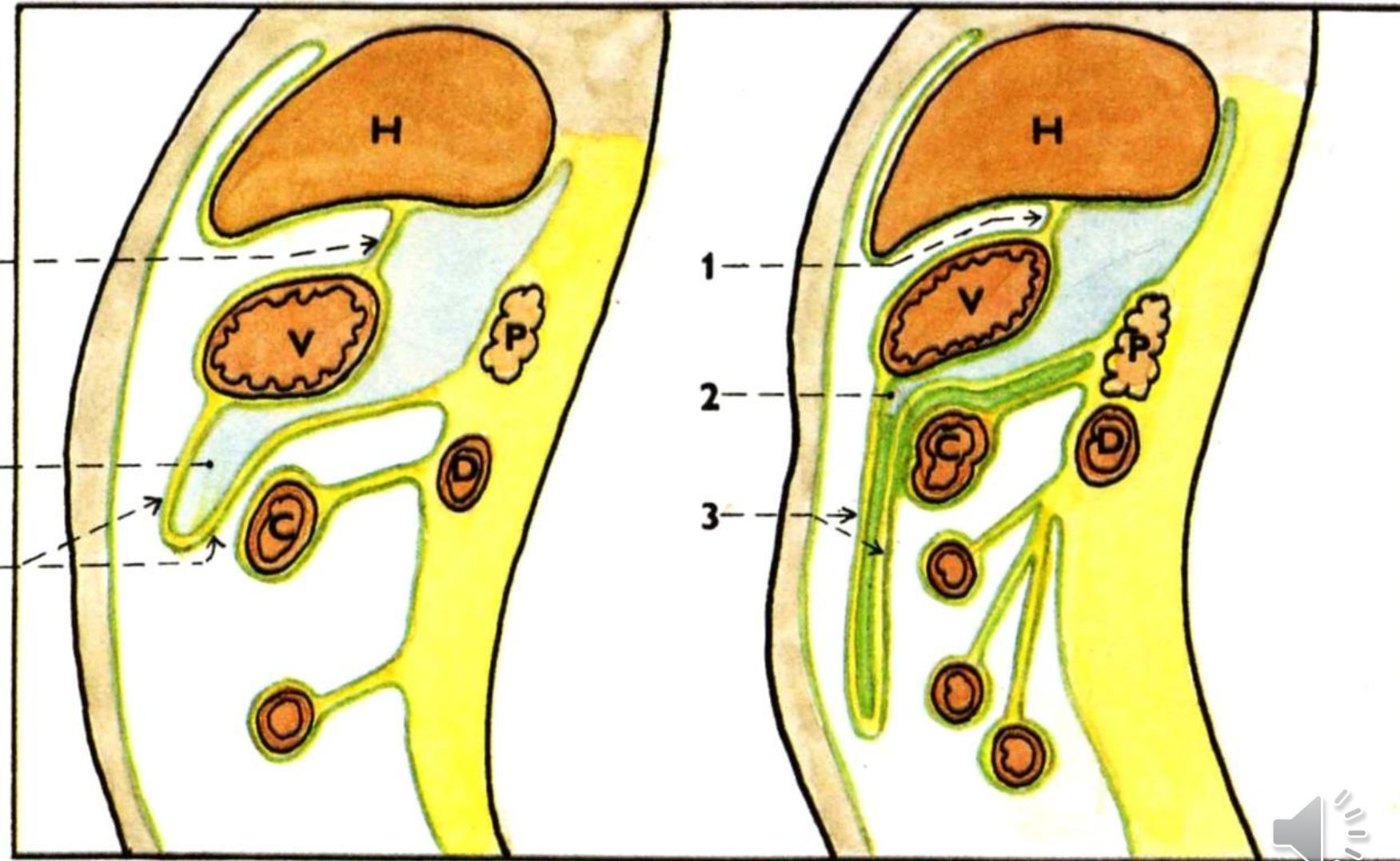
Abdominal Wall and Viscera



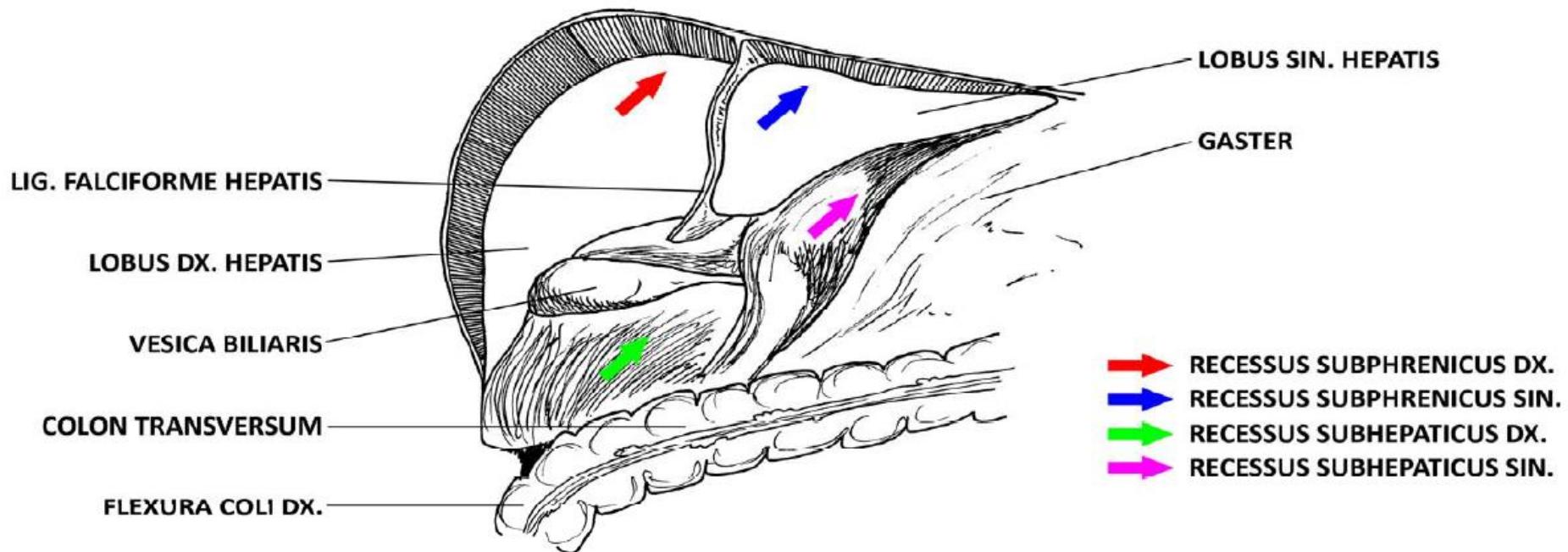
Inferior view of transverse section



Recessus inferior bursae omentalis (2)



RECESSUS PERITONEALES



- RECESSUS DUODENALIS SUP.
- ↑ RECESSUS DUODENALIS INF.
- RECESSUS PARADUODENALIS
- RECESSUS RETRODUODENALIS

FLEXURA DUODENOJEJUNALIS

PARS ASCENDENS DUODENI

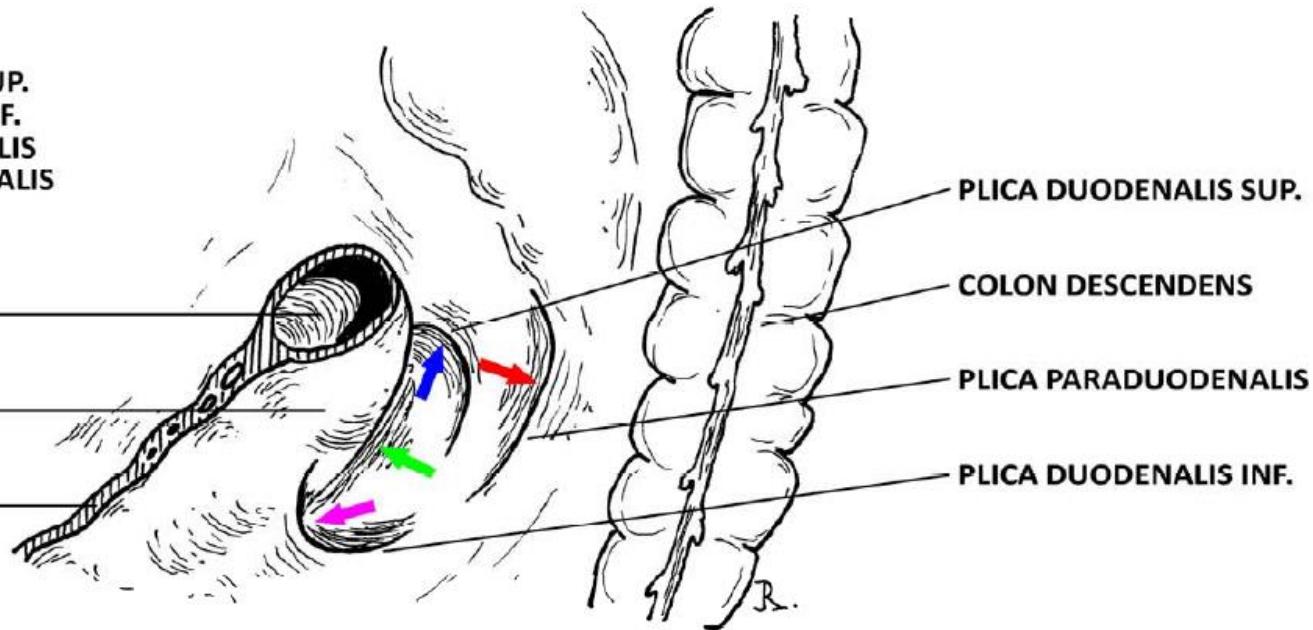
RADIX MESENTERII

PLICA DUODENALIS SUP.

COLON DESCENDENS

PLICA PARADUODENALIS

PLICA DUODENALIS INF.



- RECESSUS ILEOCAECALIS SUP.
- RECESSUS ILEOCAECALIS INF.
- RECESSUS RETROCAECALIS
- ↑ SULCI PARACOLICI

CAECUM

PLICA CAECALIS

PLICA CAECALIS VASCULARIS

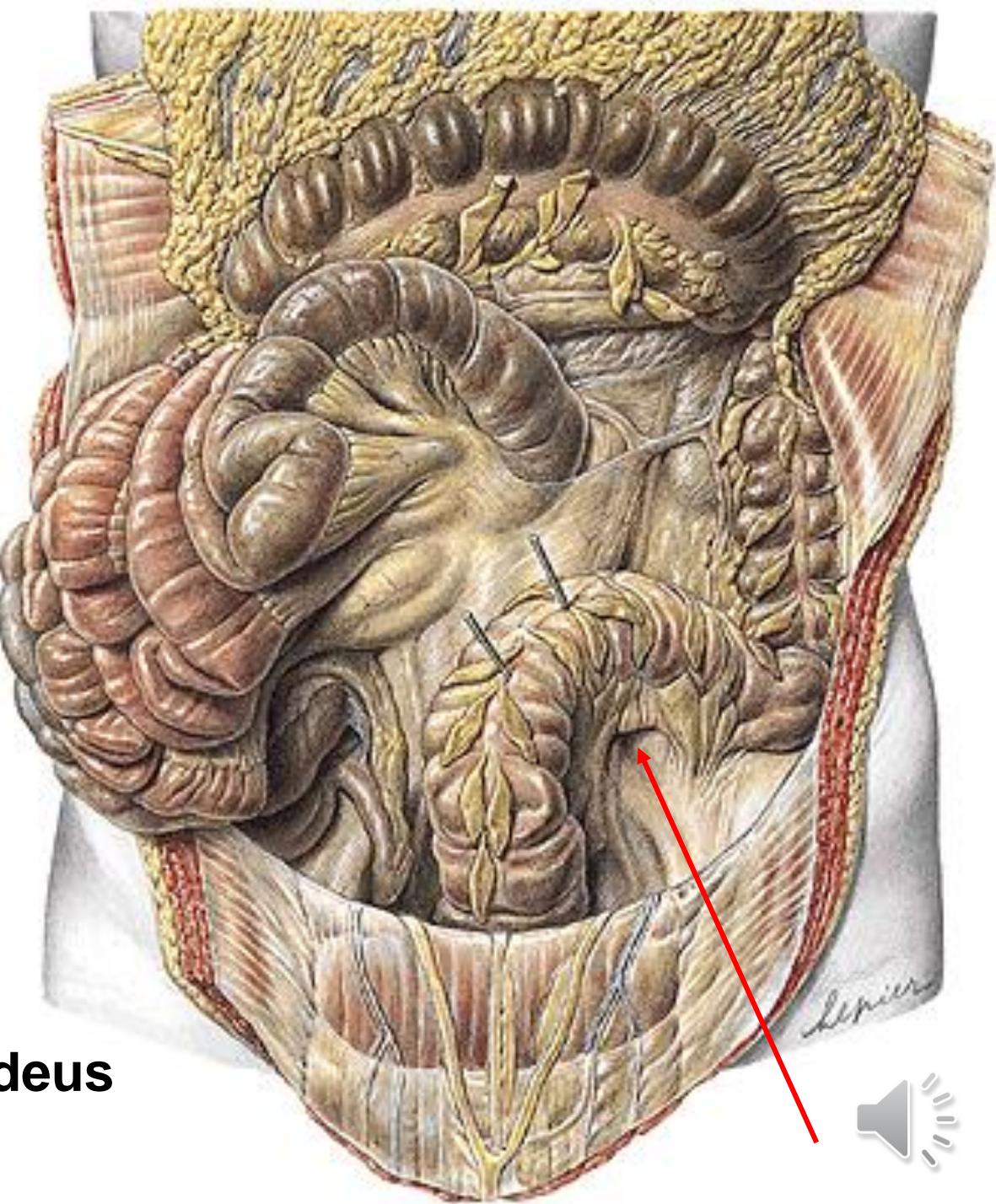
ILEUM

PLICA ILEOCAECALIS

APPENDIX VERMIFORMIS

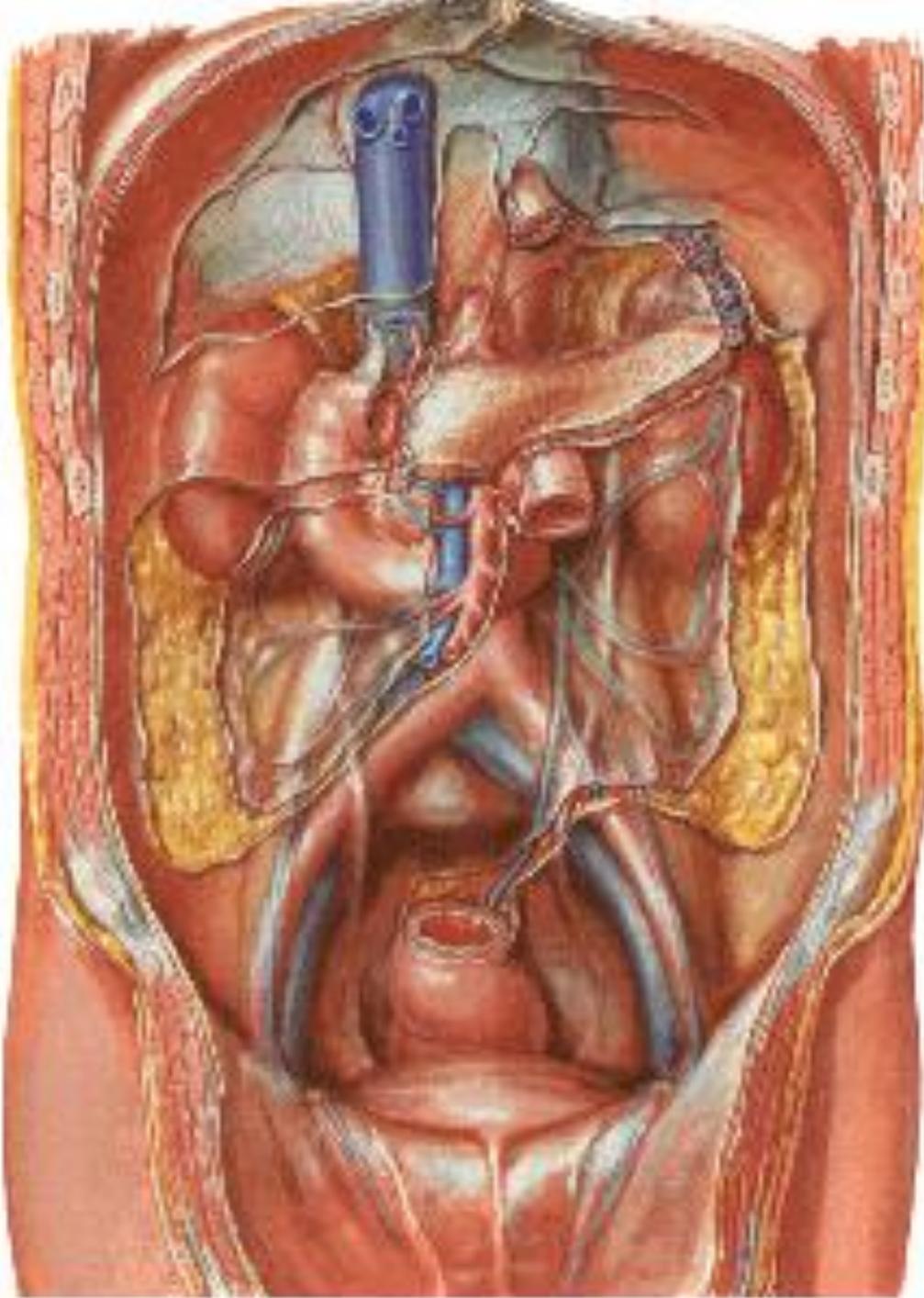


Recessus intersigmoideus



SPATIUM RETROPERITONEALE



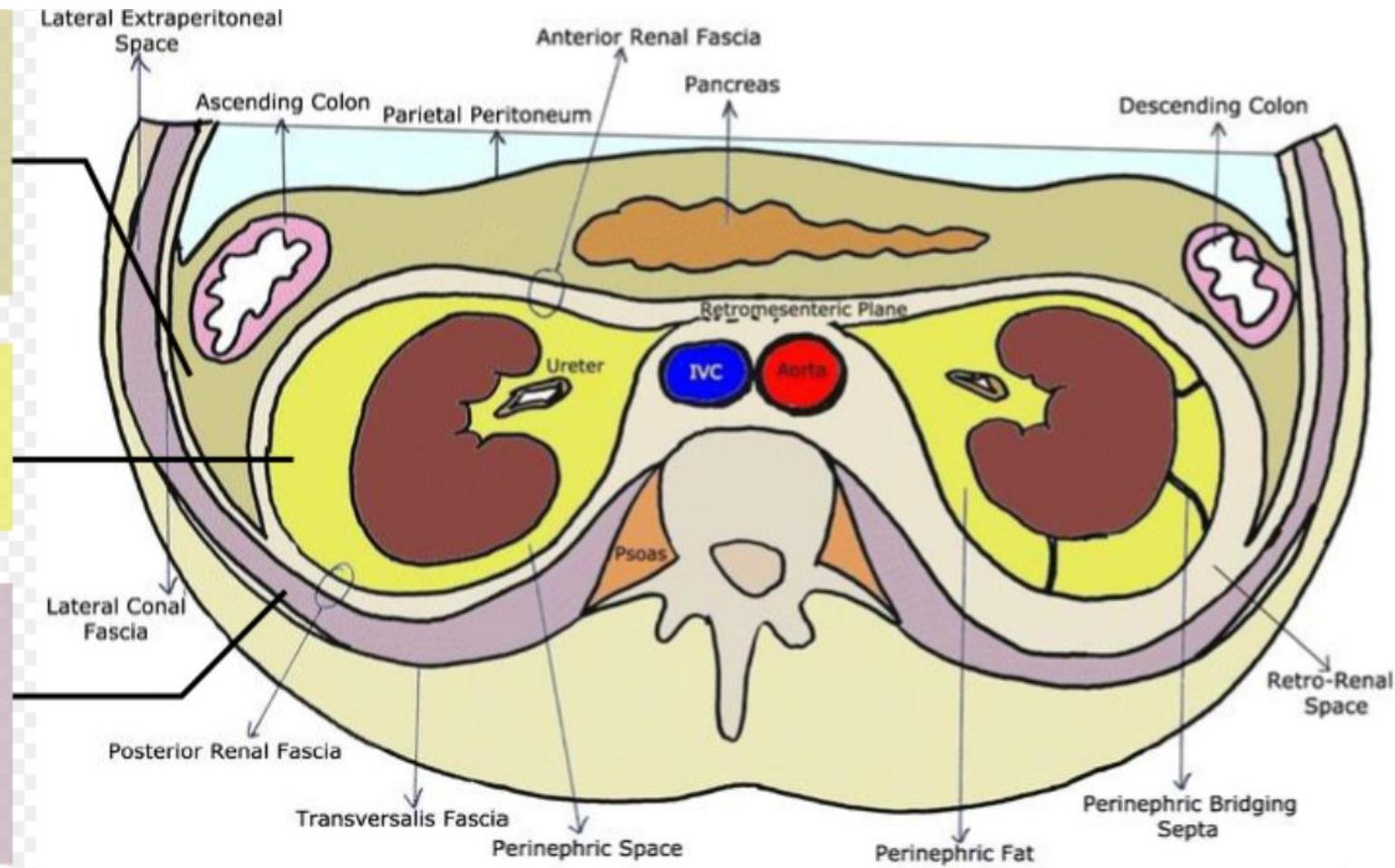


(inferior view)

Anterior pararenal space

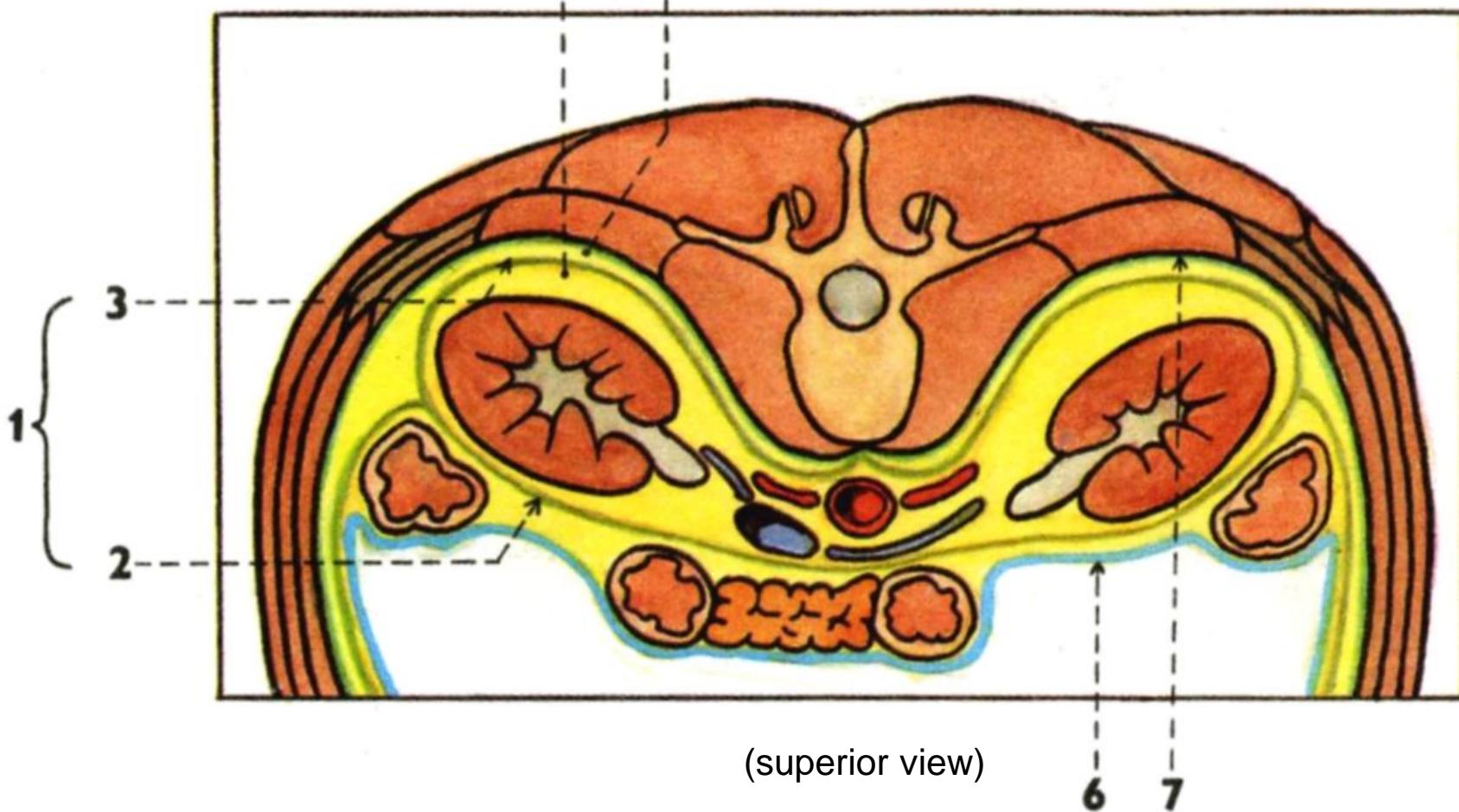
Perirenal space

Posterior pararenal space

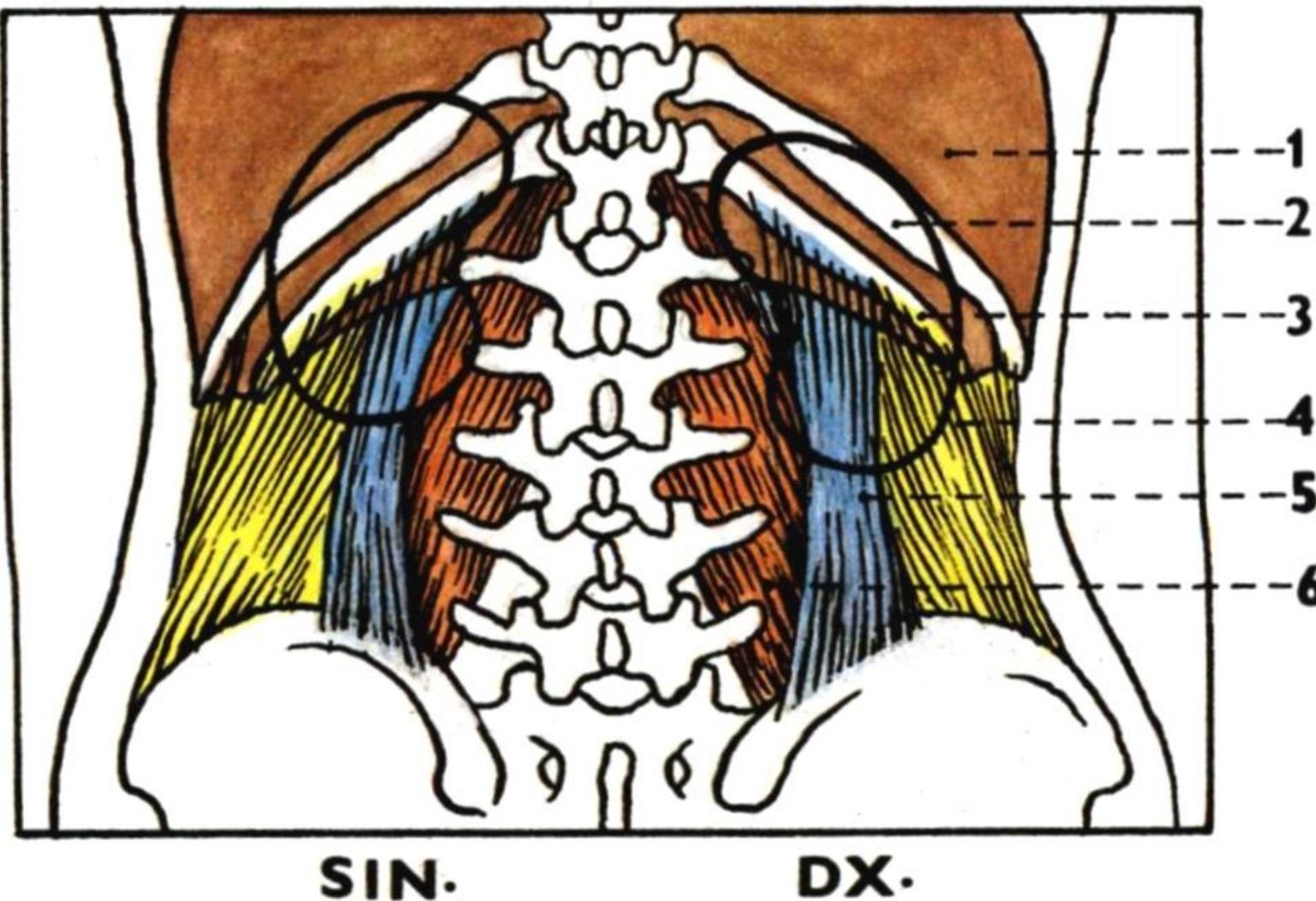


PERIRENAL SPACE

- 1. fascia renalis
- 2. lamina praerenalis
- 3. lamina retrorenalis
- 4. capsula adiposa
- 5. corpus adiposum pararenale
- 6. peritoneum
- 7. fascia transversalis



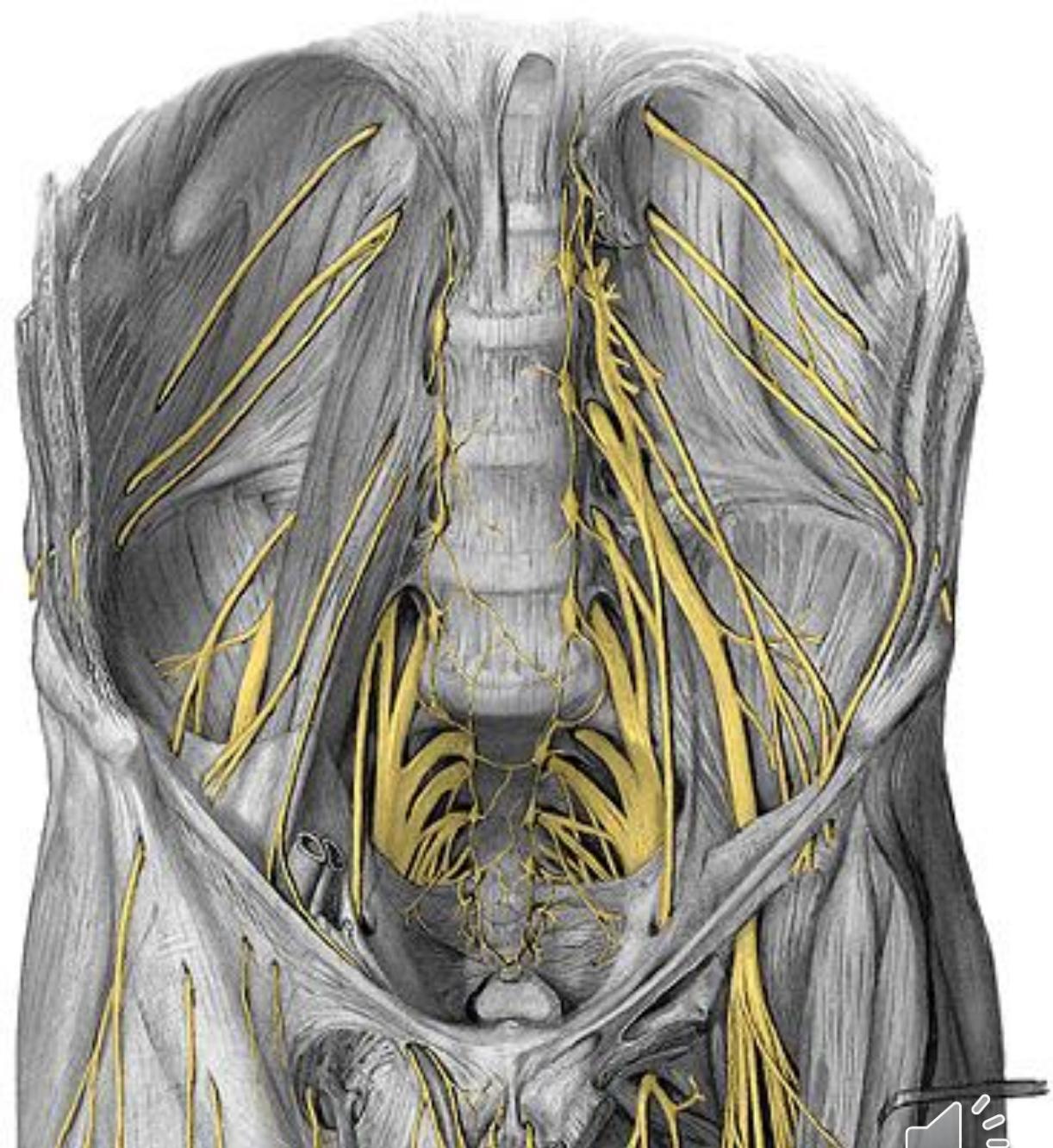
1. diaphragma
2. 11th rib
3. 12th rib
4. m. transversus abdominis
5. m. quadratus lumborum
6. m. psoas major

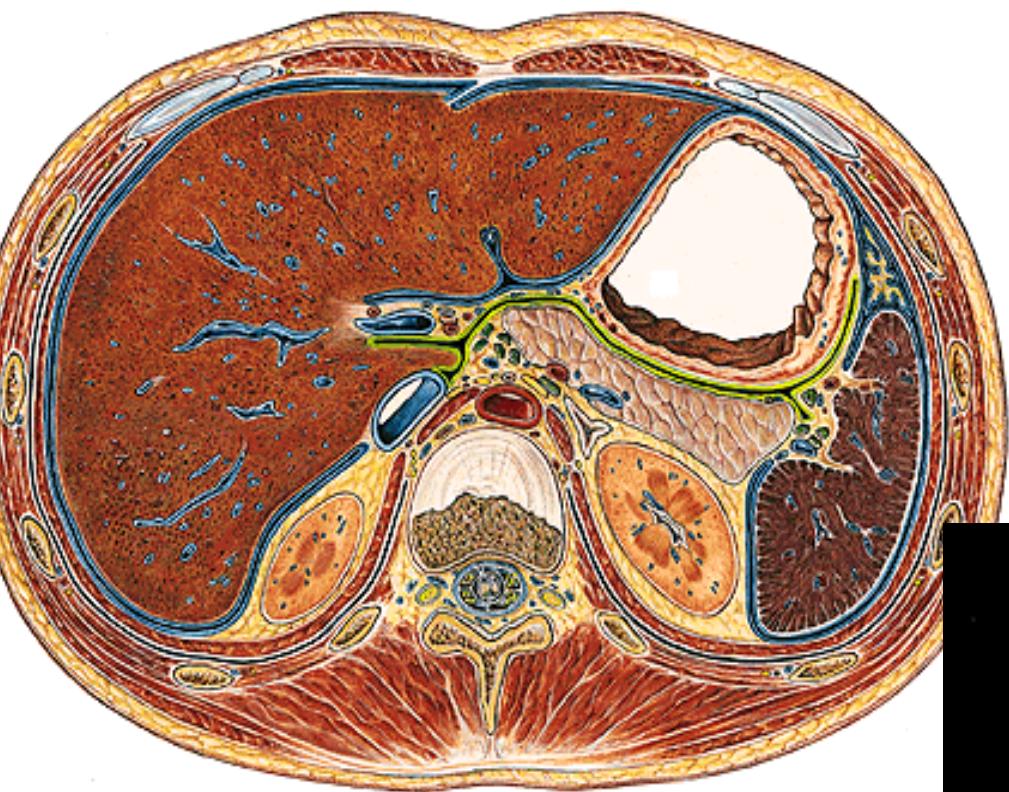


N. subcostalis

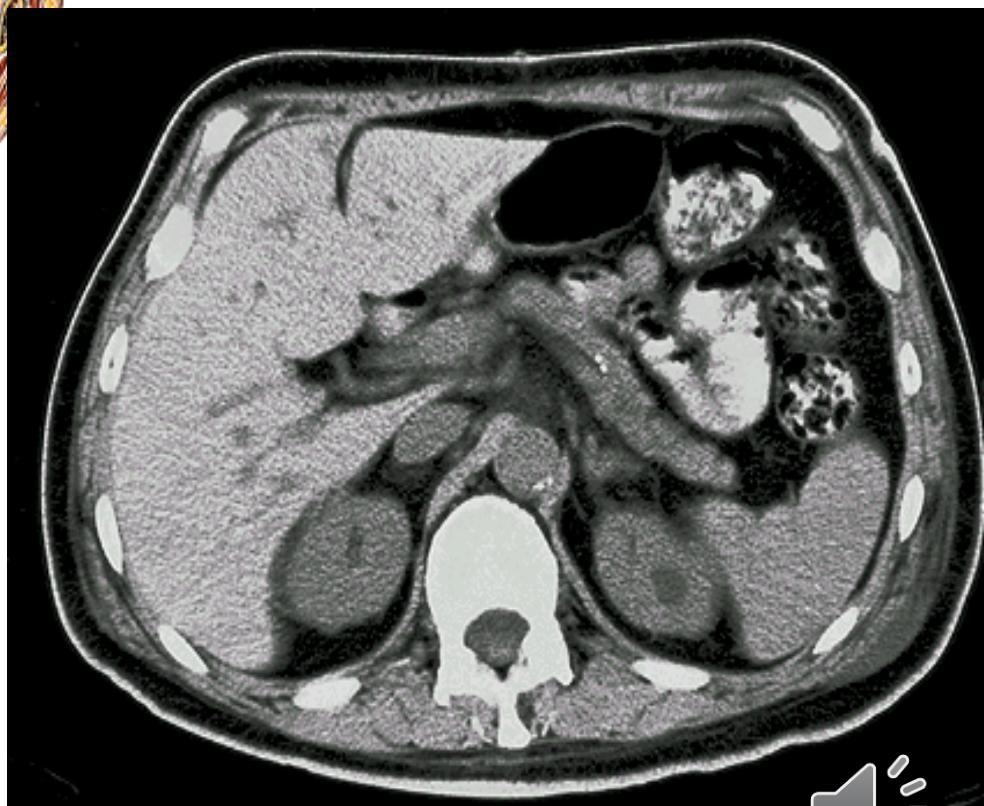
N. iliohypogastricus

N. ilioinguinalis





Th XII



Illustrations were copied from:

**Čihák R: Anatomie 2 (Splanchnologia). Avicenum,
zdravotnické nakladatelství, Praha, 1988.**

Atlas der Anatomie des Menschen/Sobotta.

**Putz,R., und Pabst,R. 20. Auflage. München:
Urban & Schwarzenberg, 1993**

