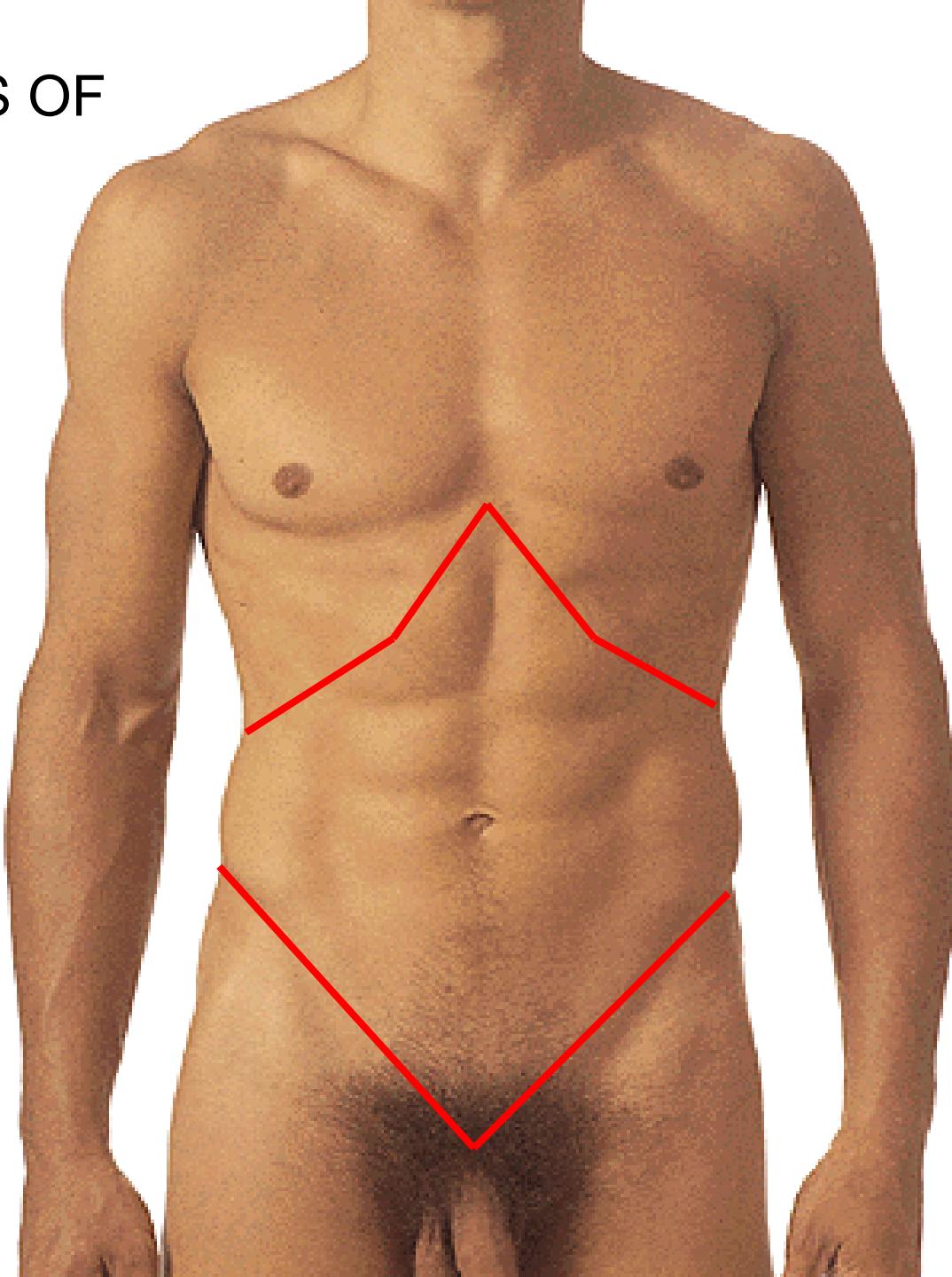


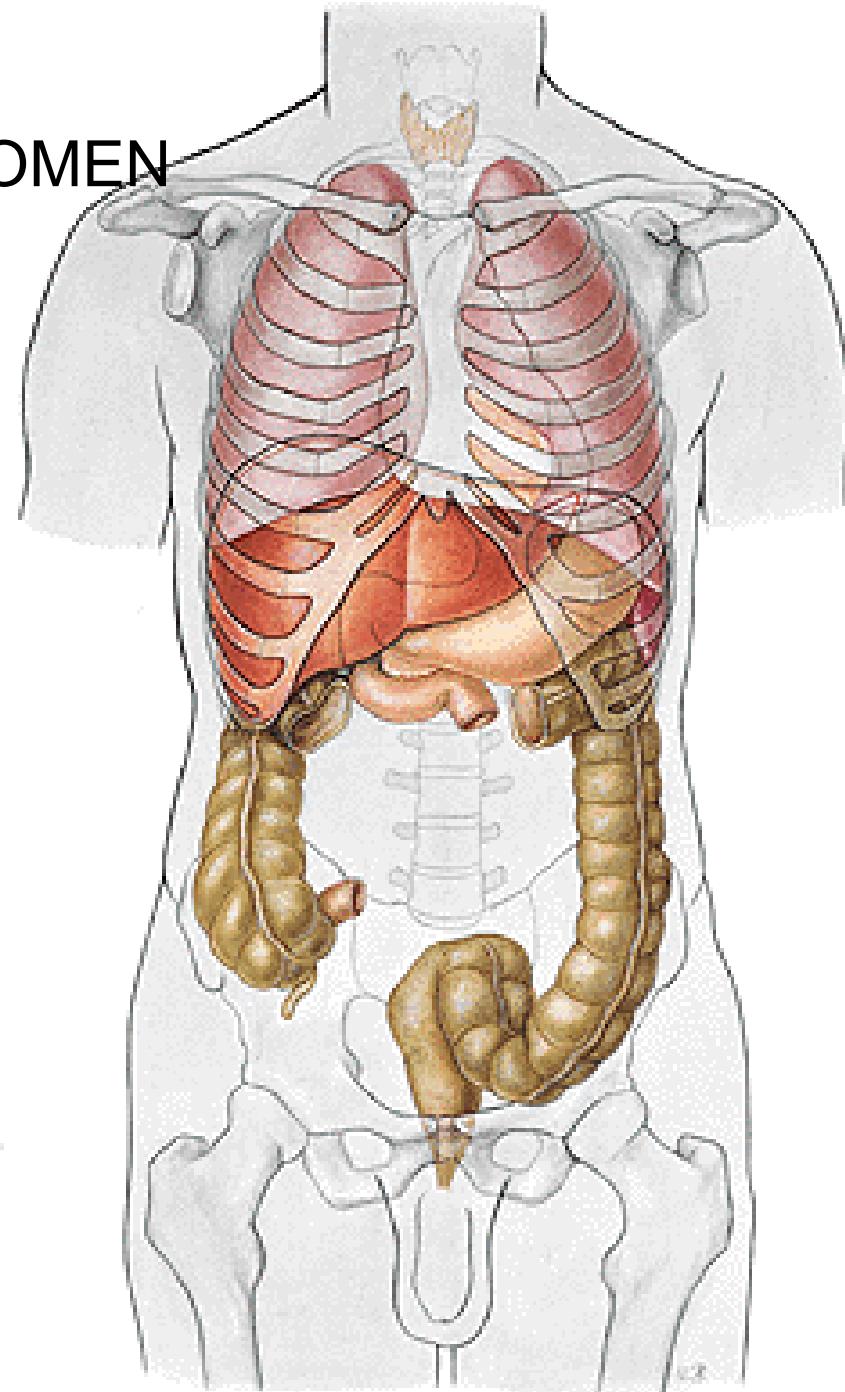
# **PROJECTION OF ORGANS ONTO THE ABDOMINAL WALL**

# SUPERFICIAL BORDERS OF THE ABDOMEN

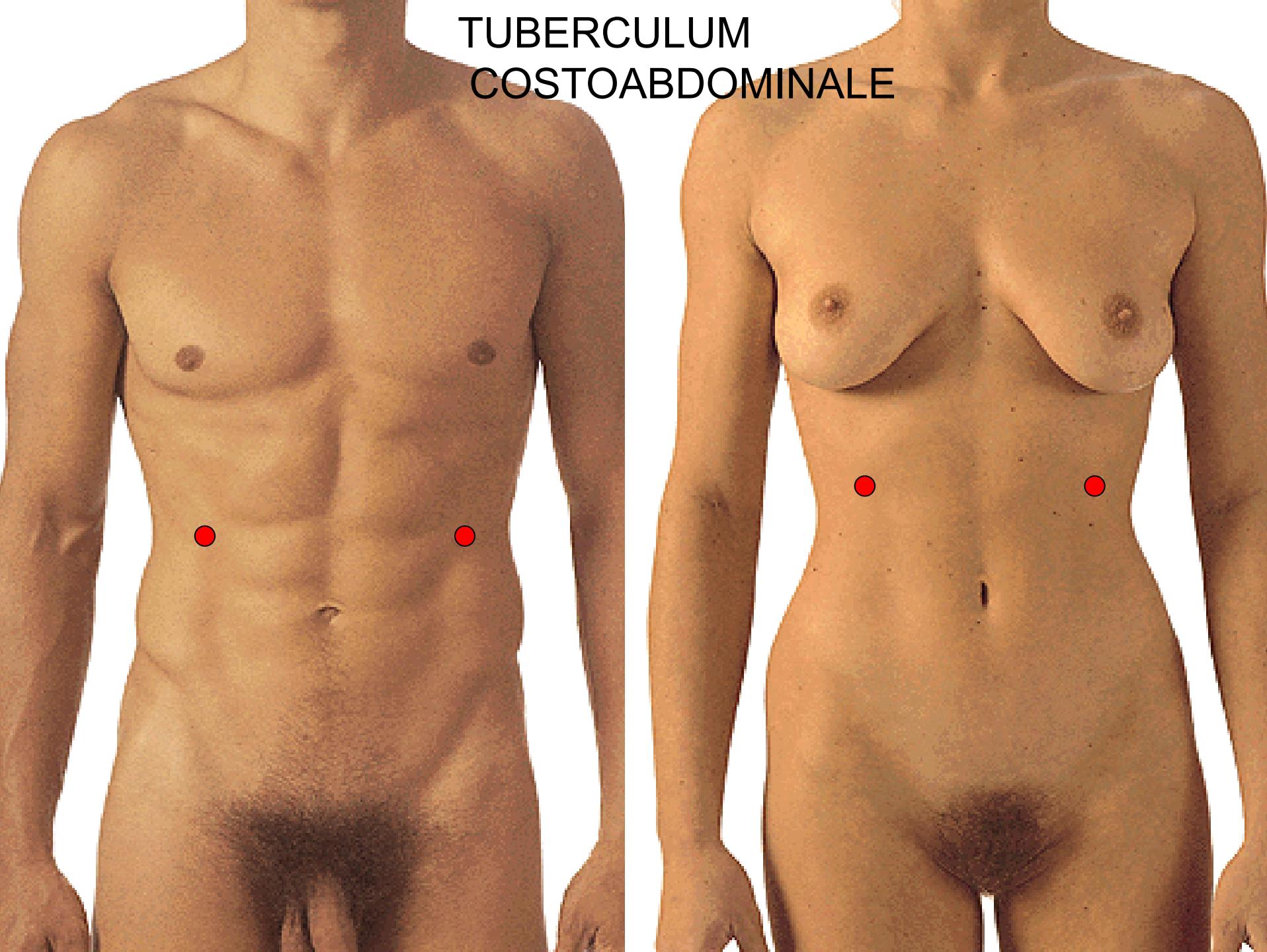


## DEEP BORDERS OF THE ABDOMEN

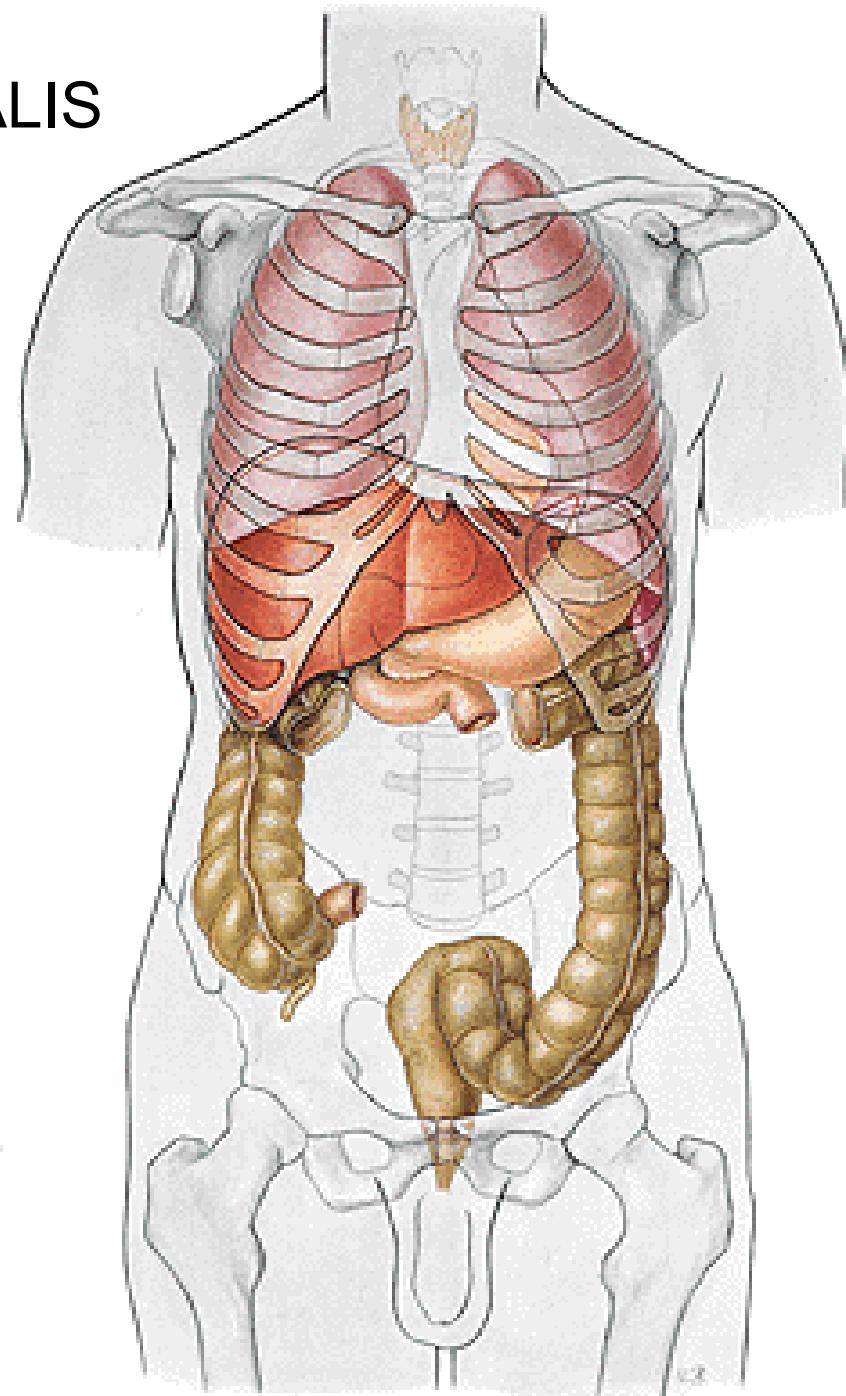
- DIAPHRAGMA
- LINEA TERMINALIS



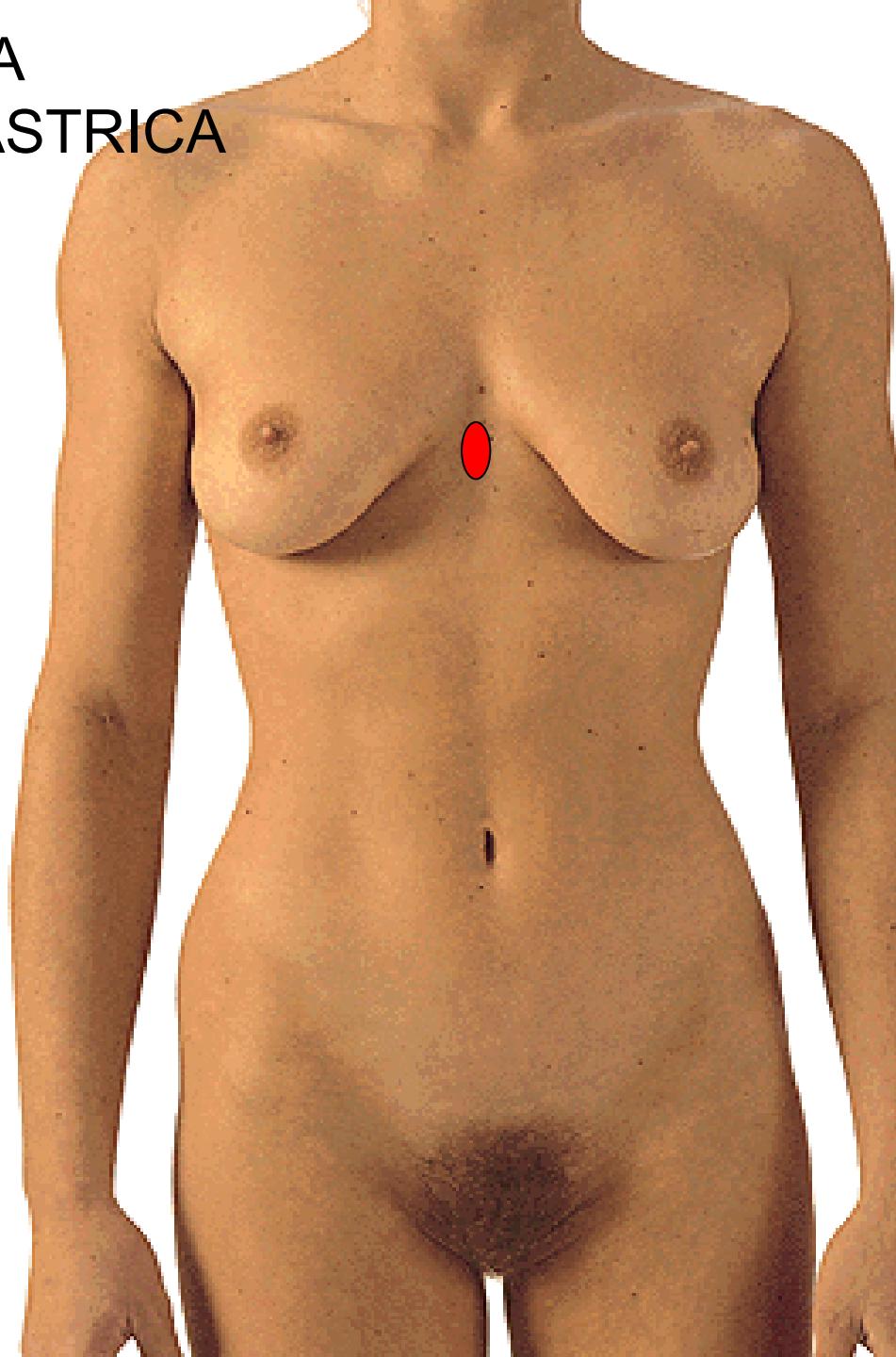
TUBERCULUM  
COSTOABDOMINALE



# ANGULUS INFRASTERNALIS



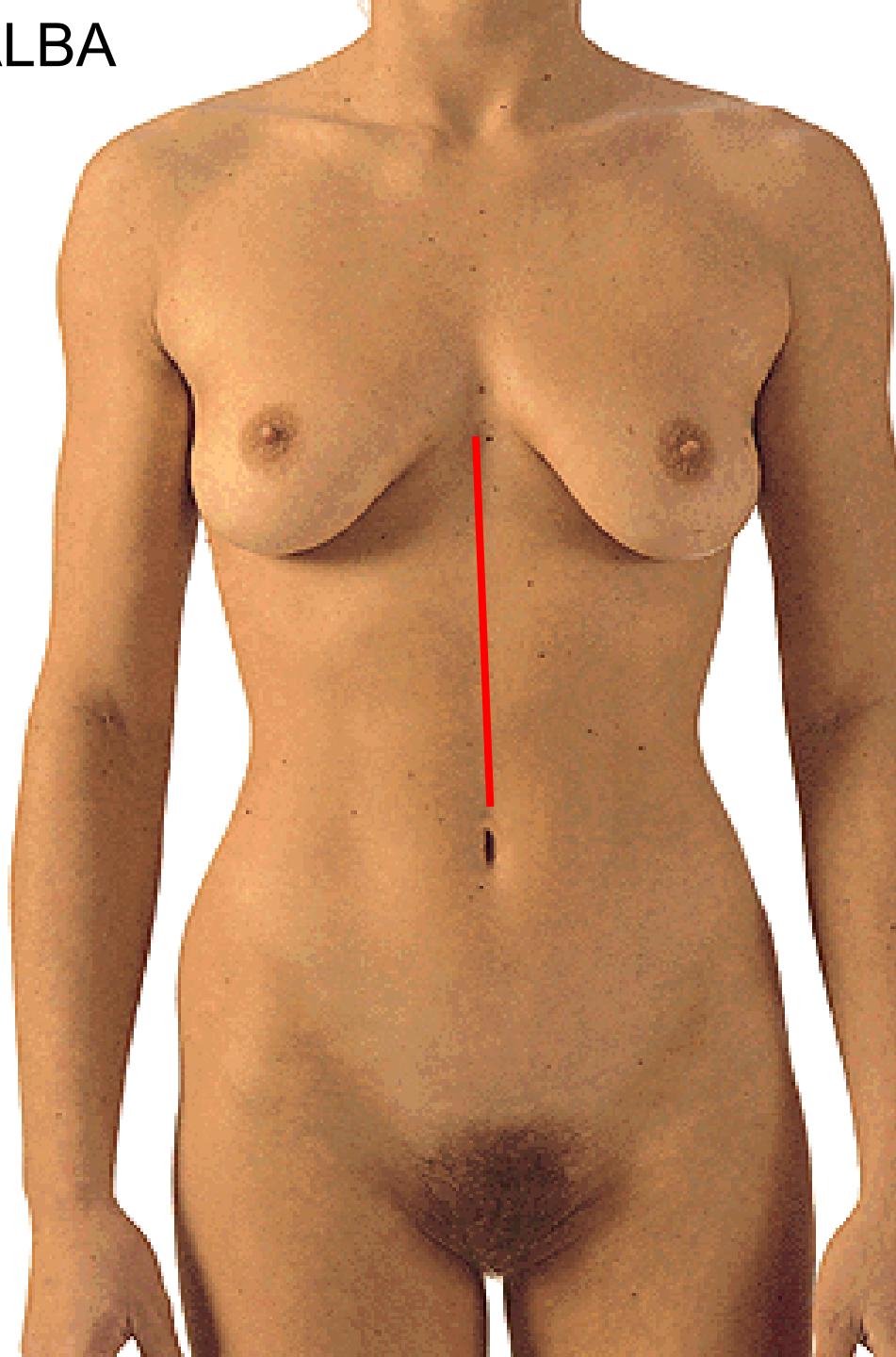
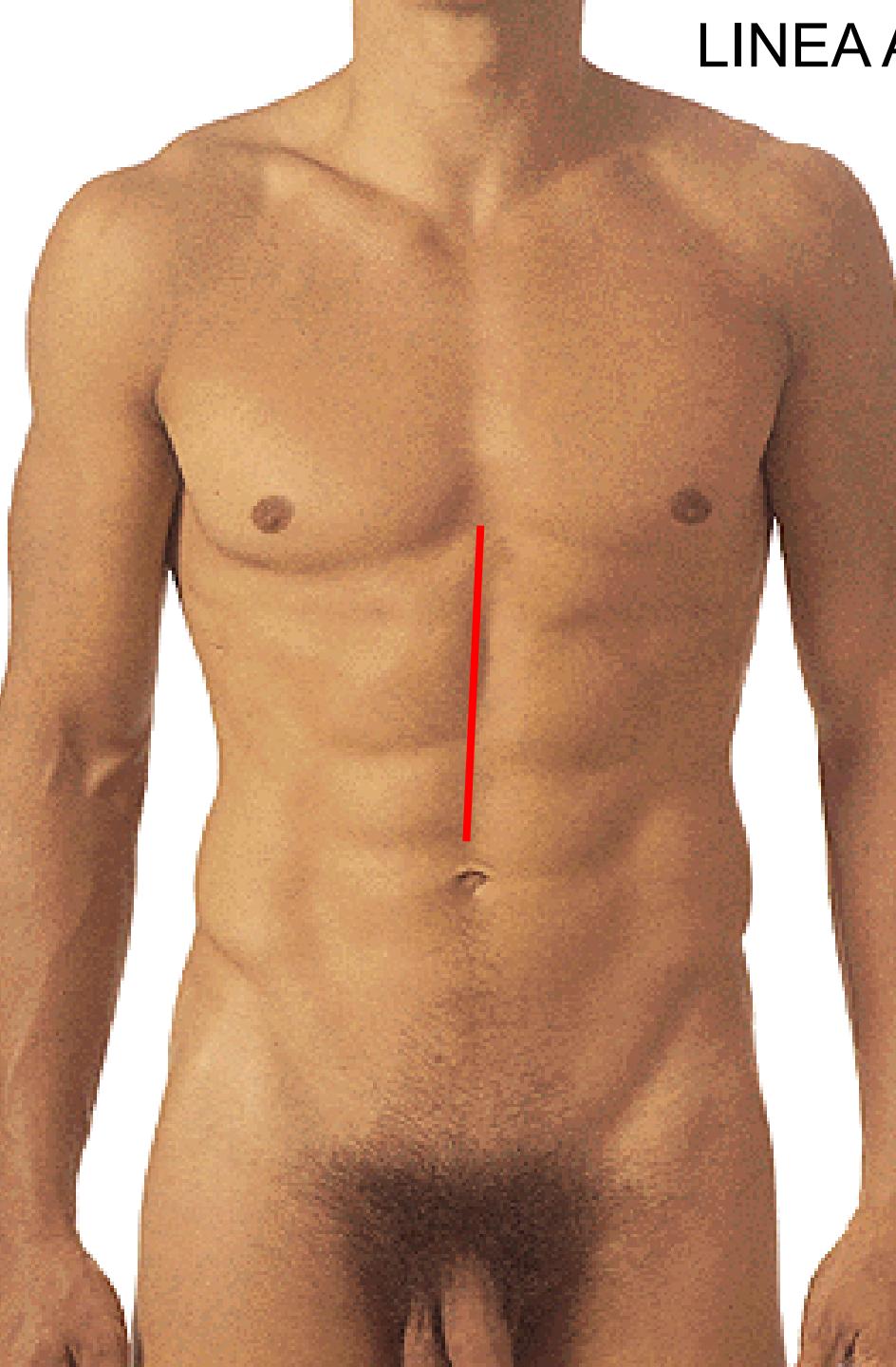
**FOSSA  
EPIGASTRICA**



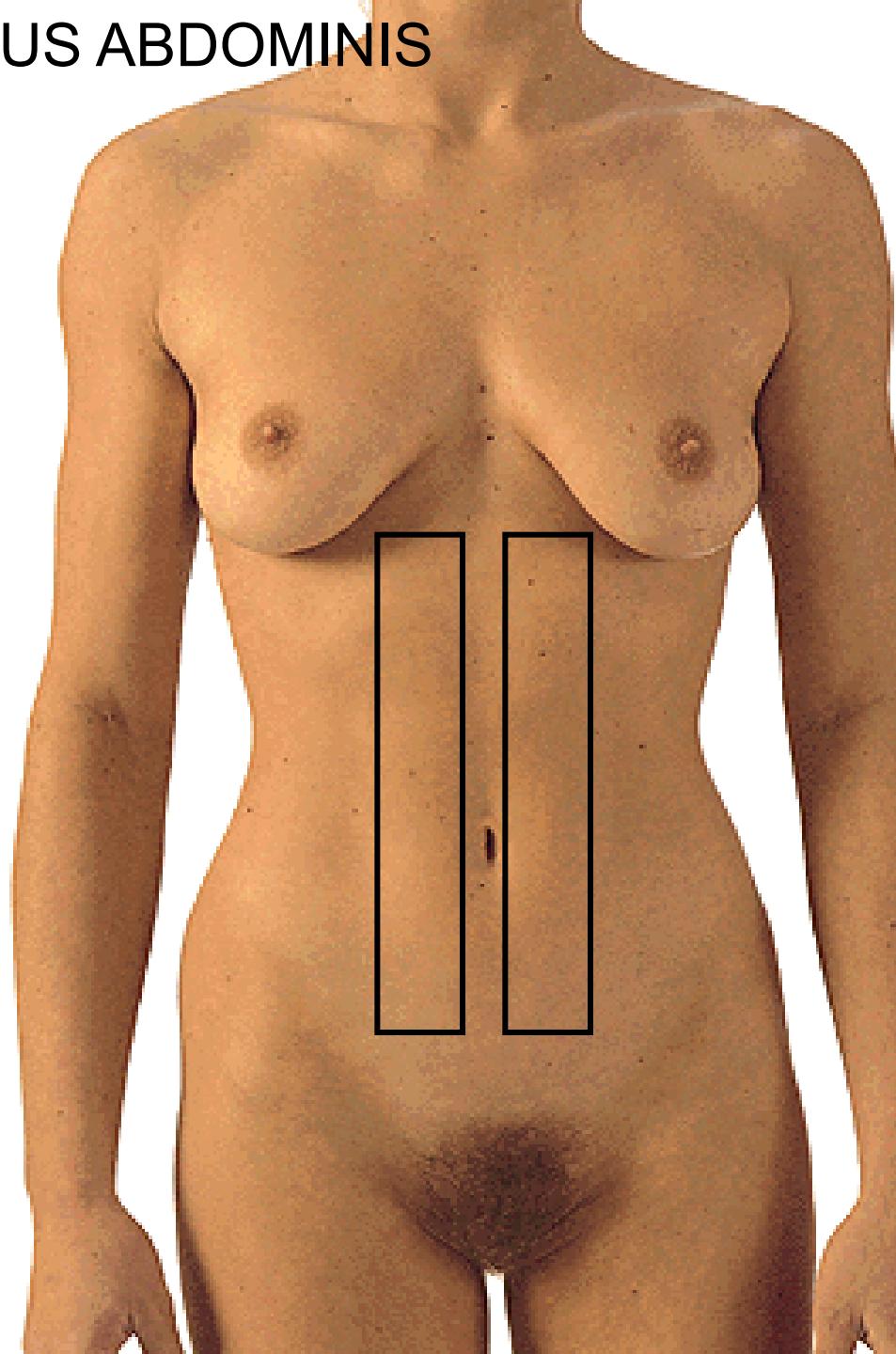
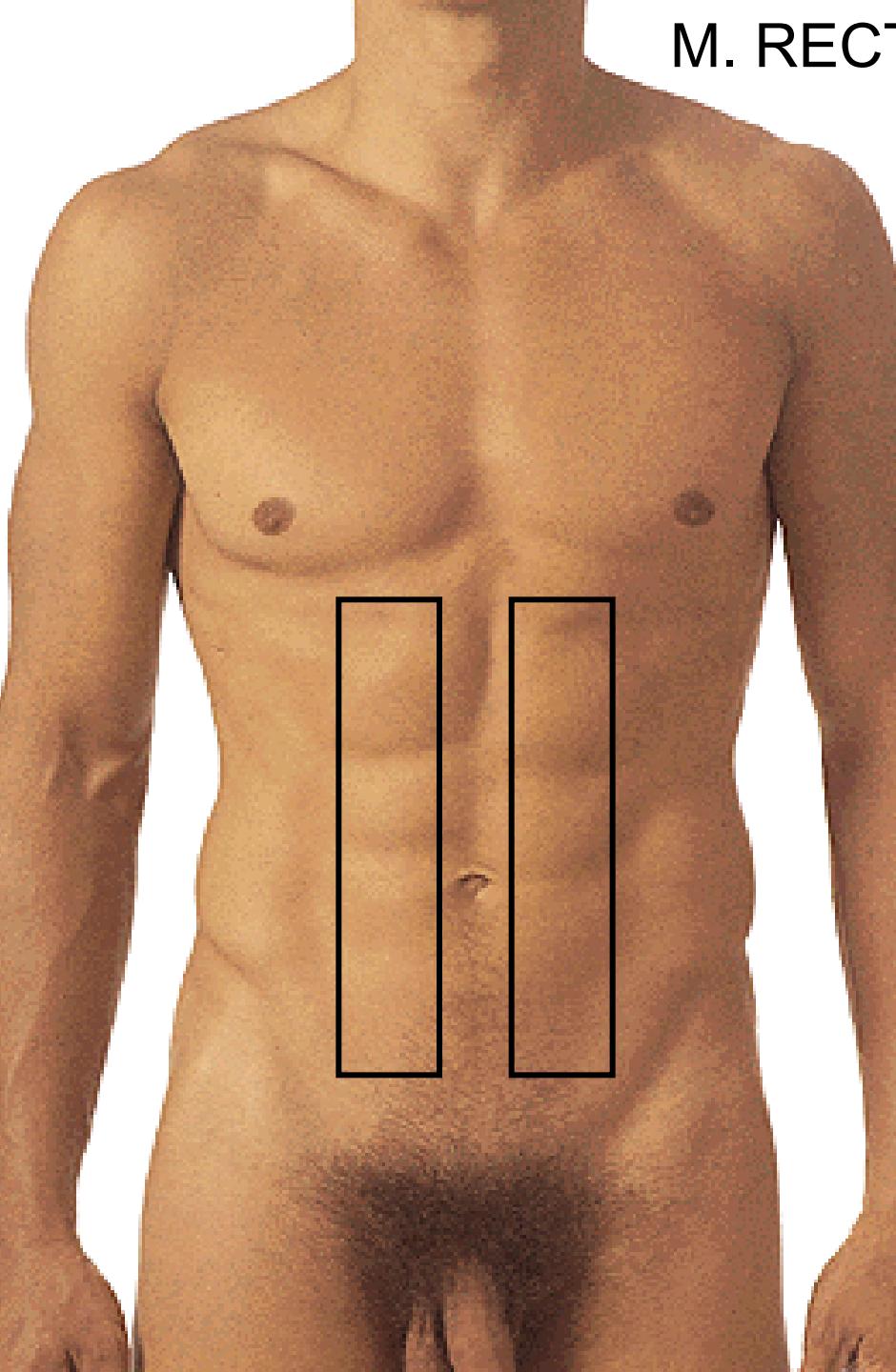
**UMBILICUS – L3/L4**



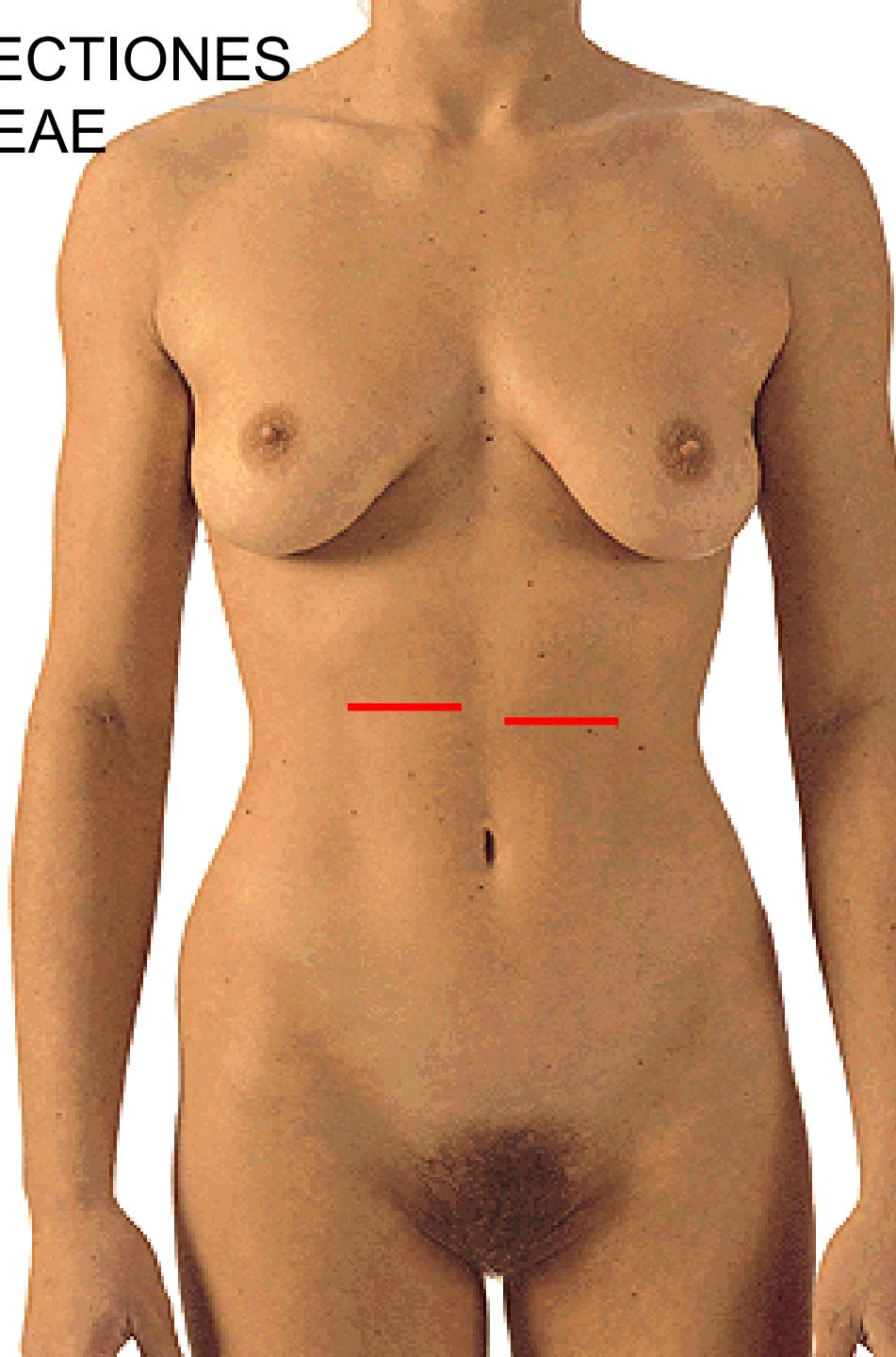
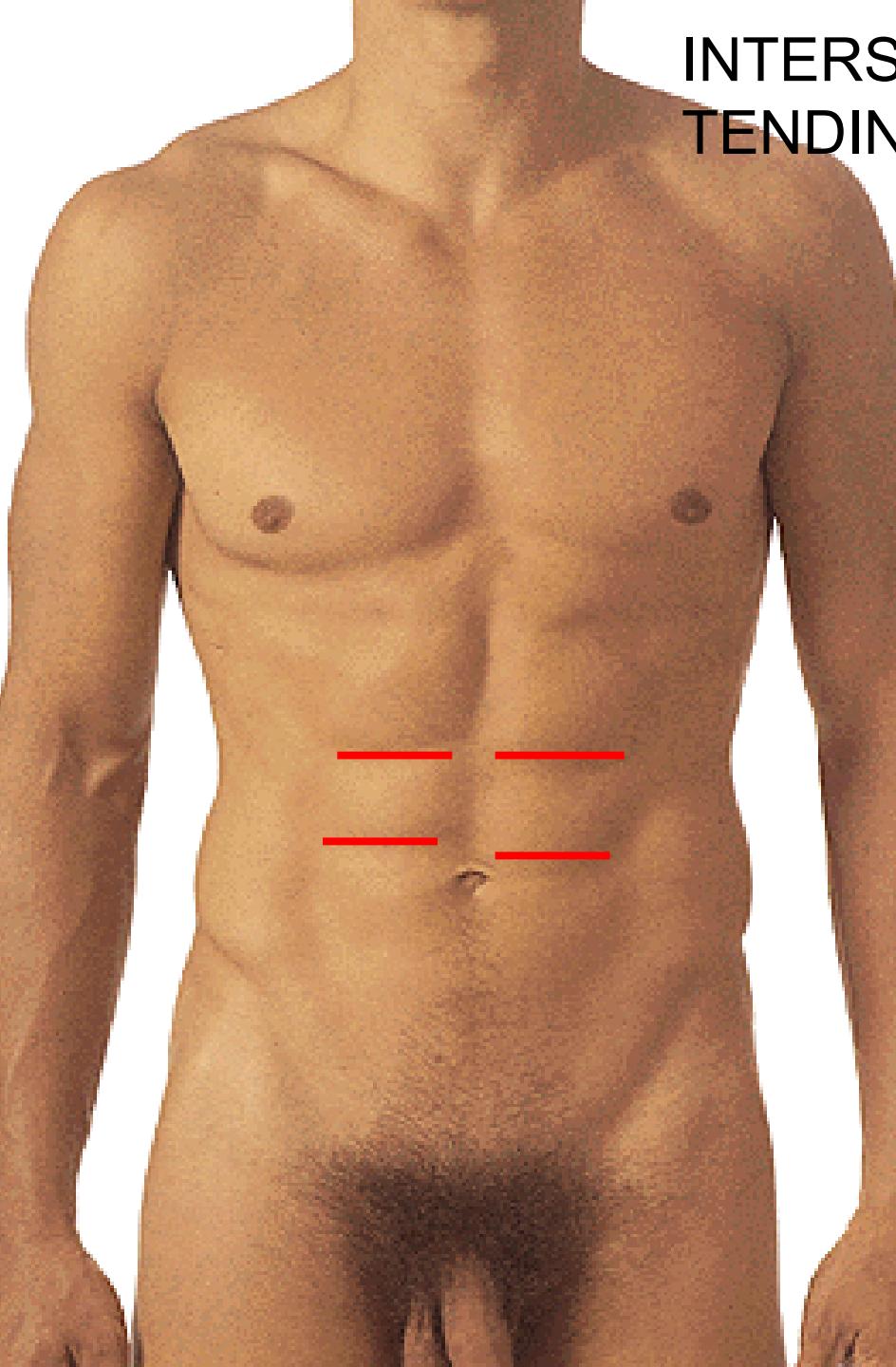
# LINEA ALBA



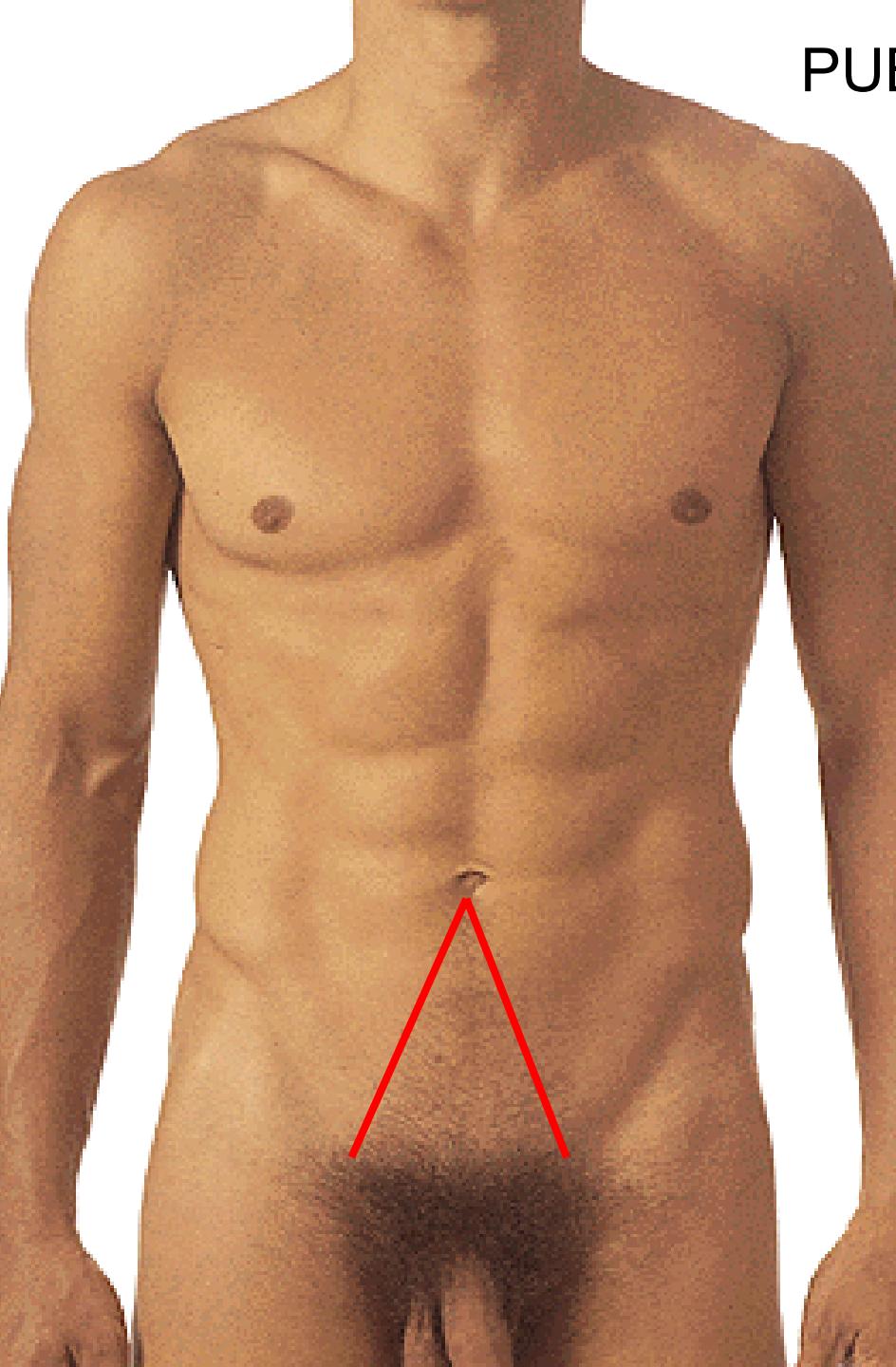
# M. RECTUS ABDOMINIS



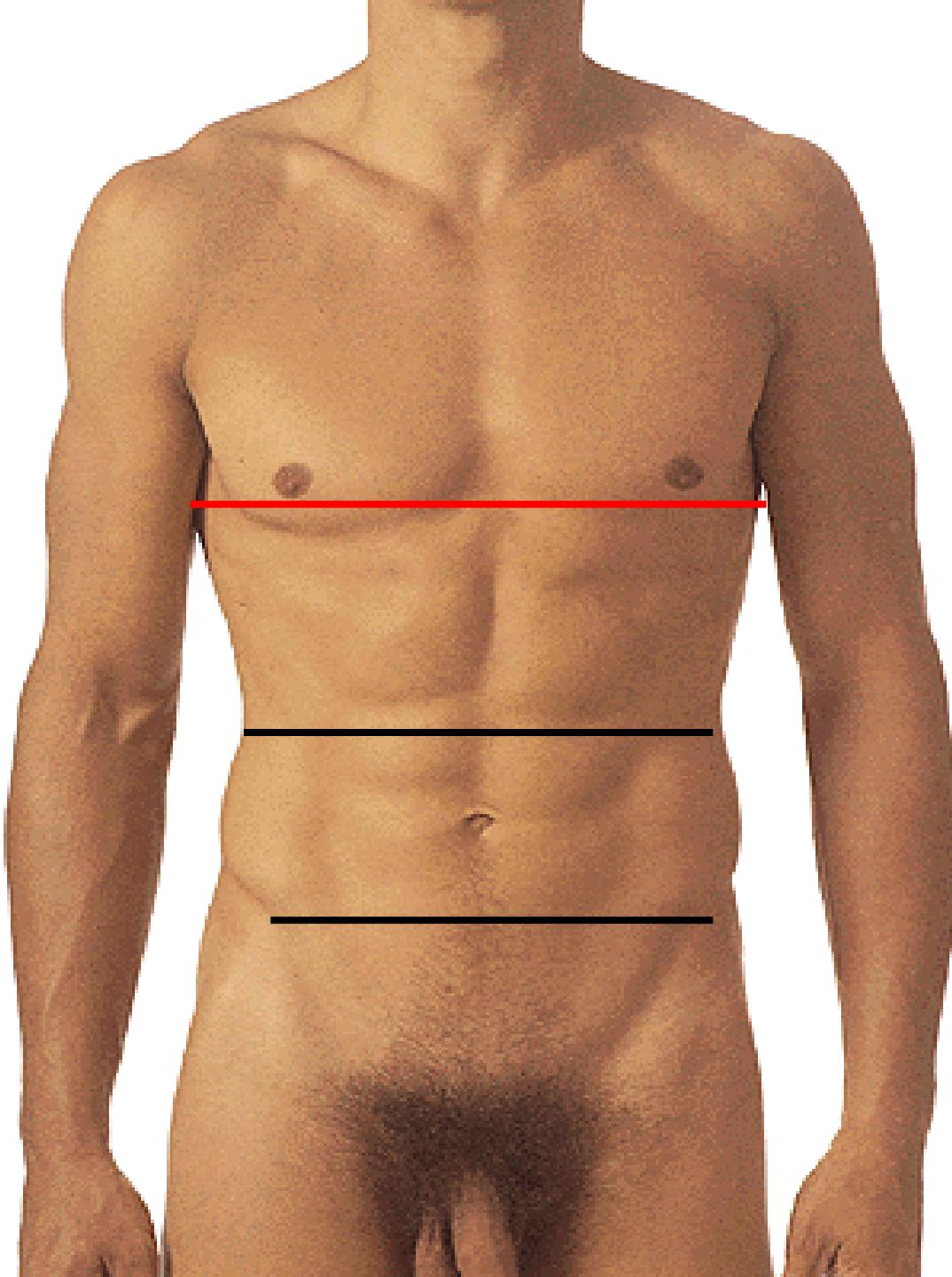
# INTERSECTIONES TENDINEAE



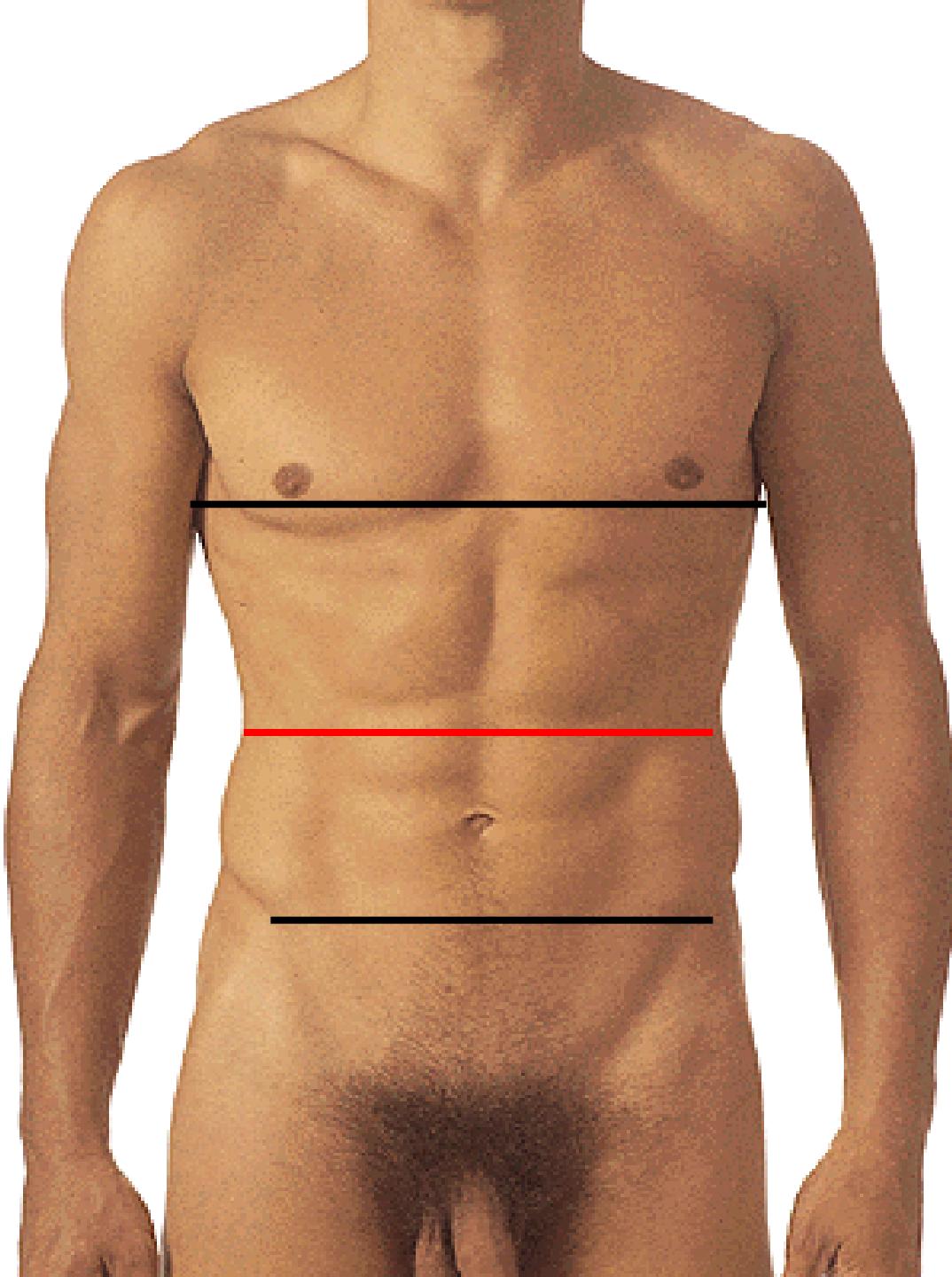
# PUBES



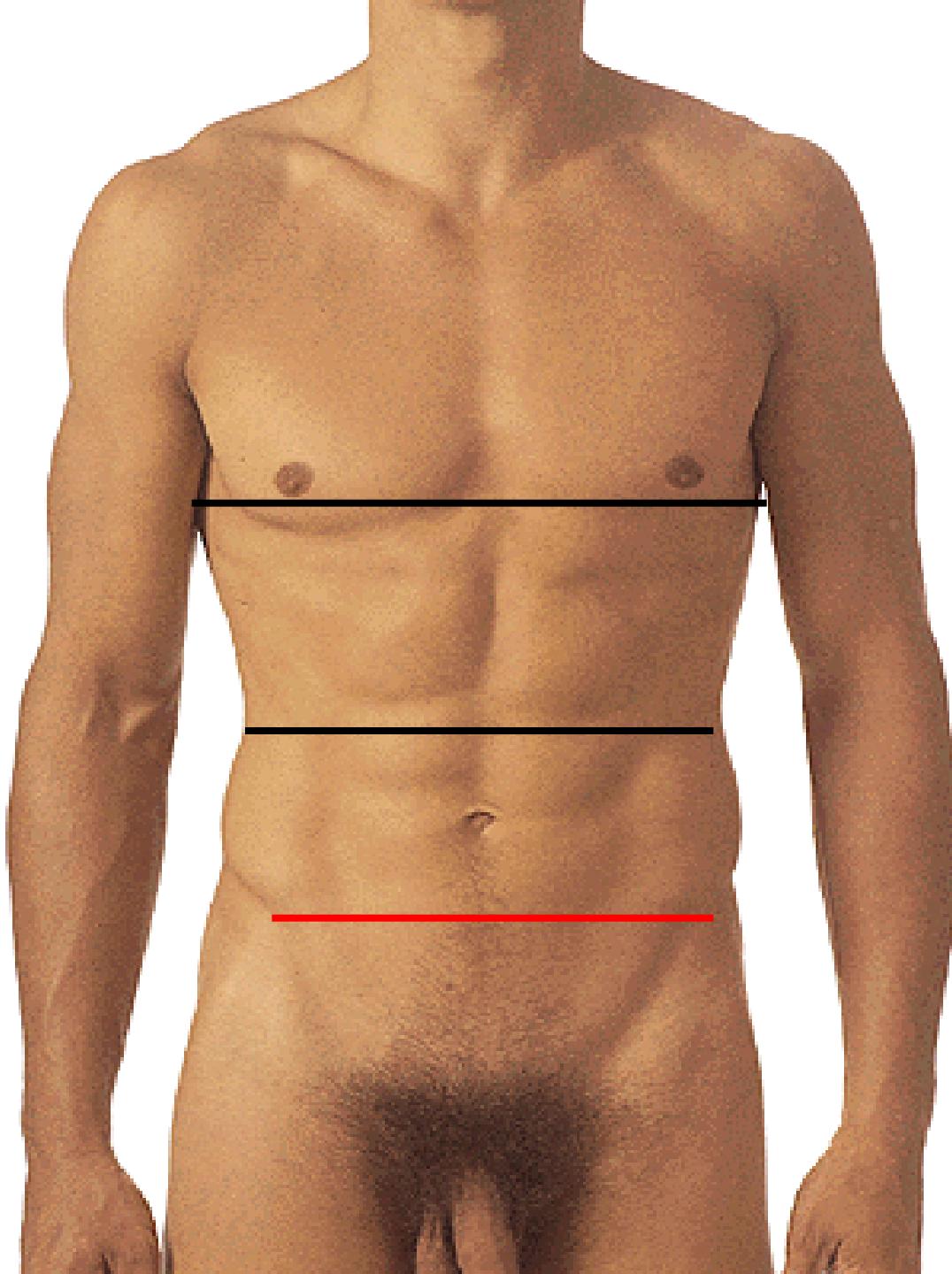
# LINEA XIPHISTERNALIS



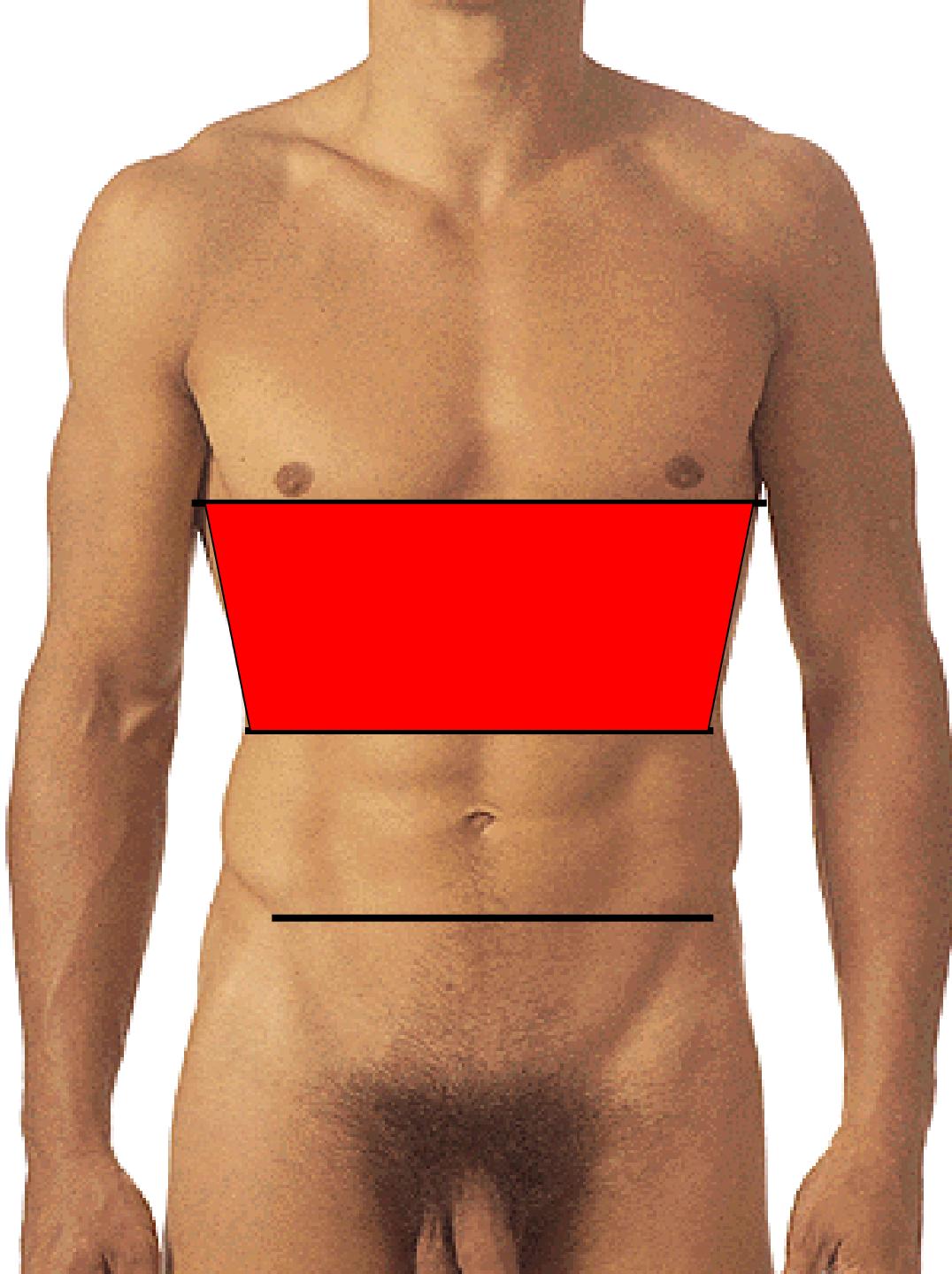
# LINEA SUBCOSTALIS



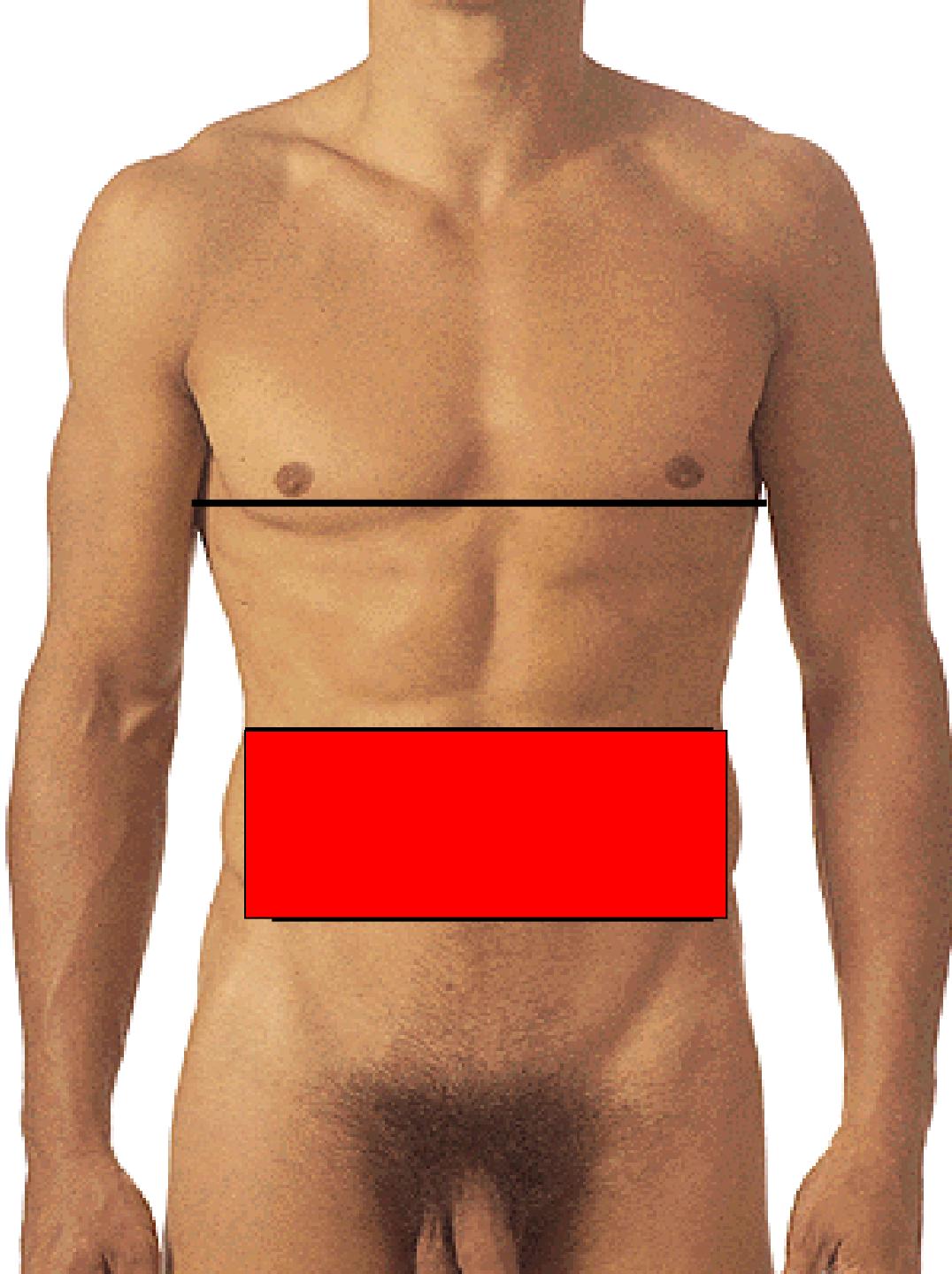
# LINEA INTERSPINALIS



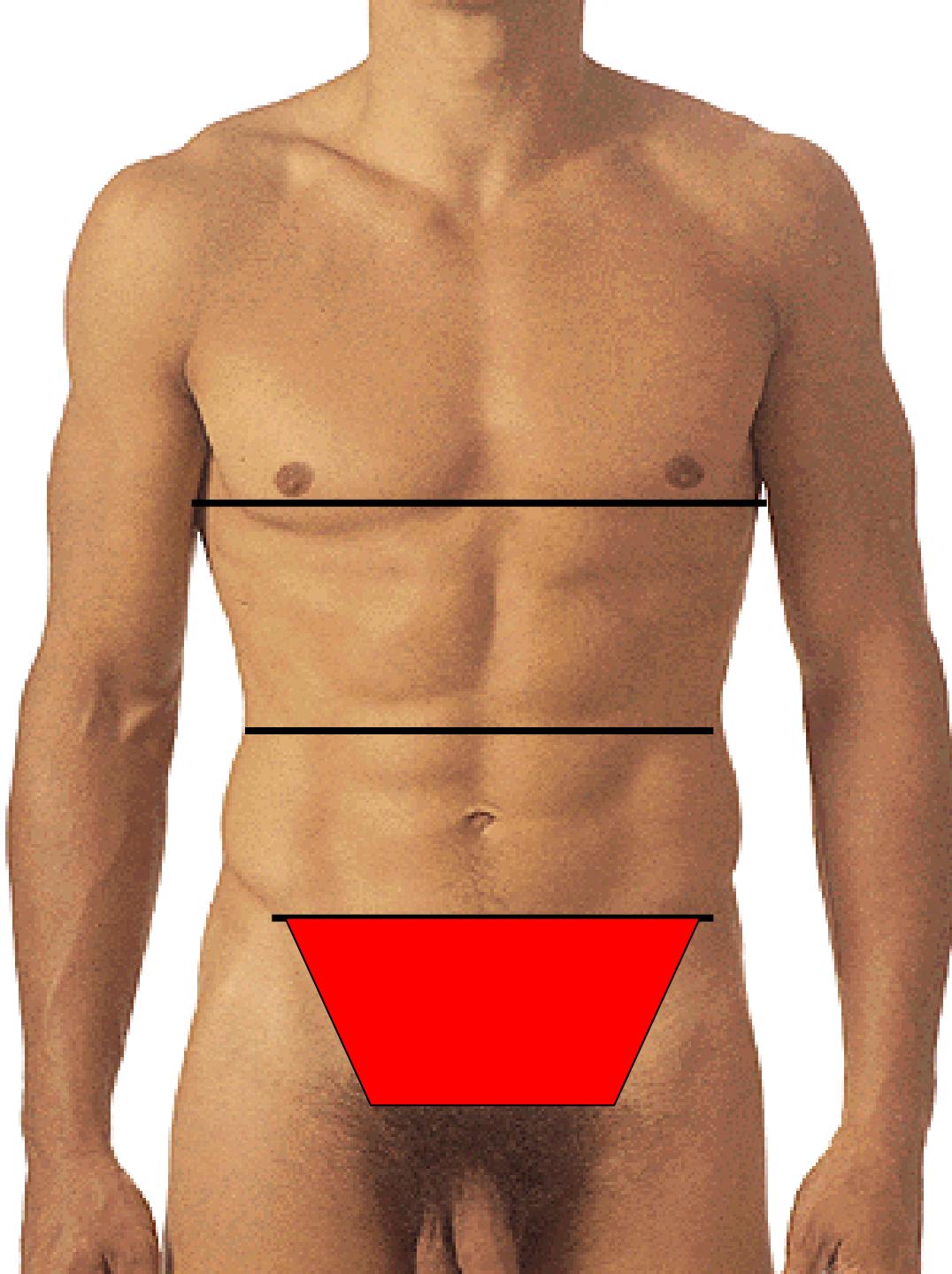
# EPIGASTRIUM

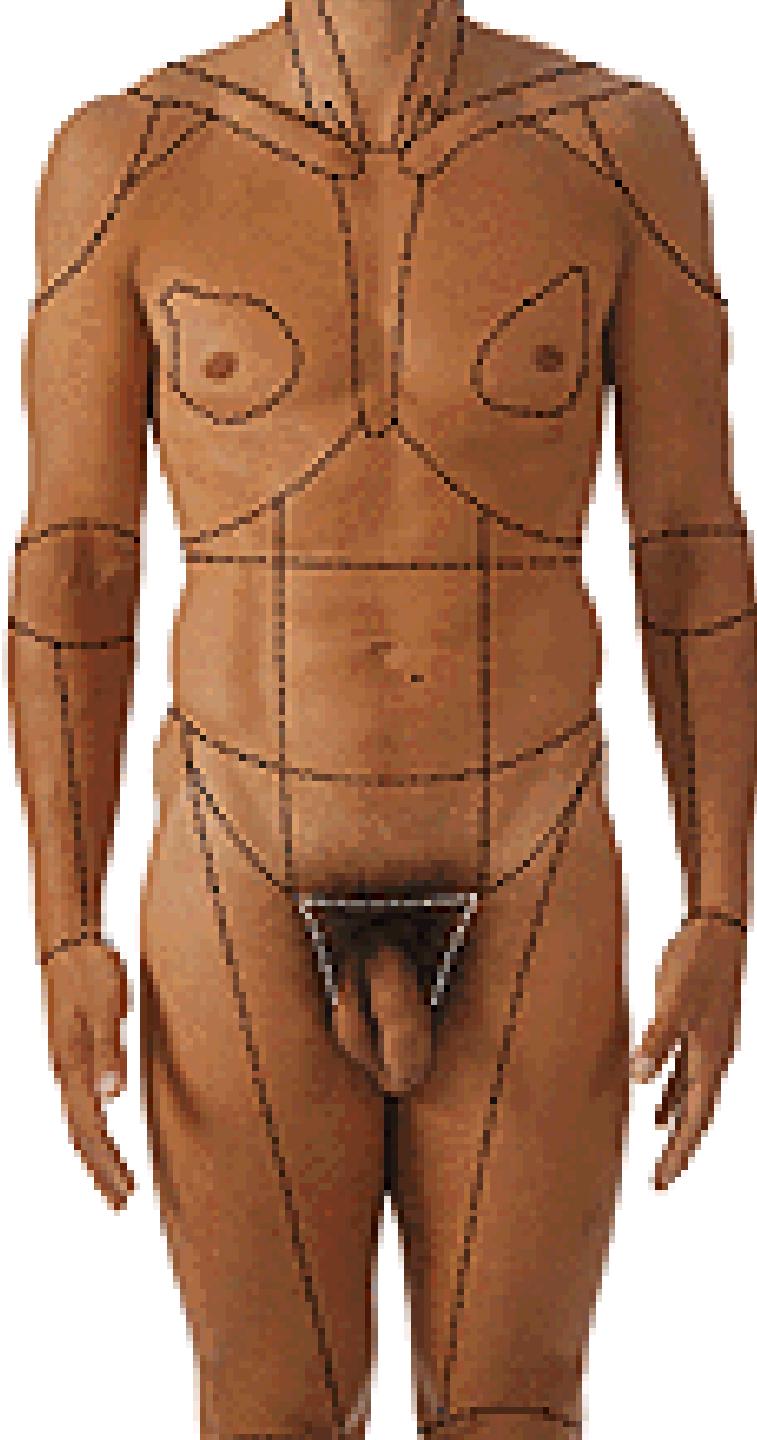


# MESOGASTRIUM

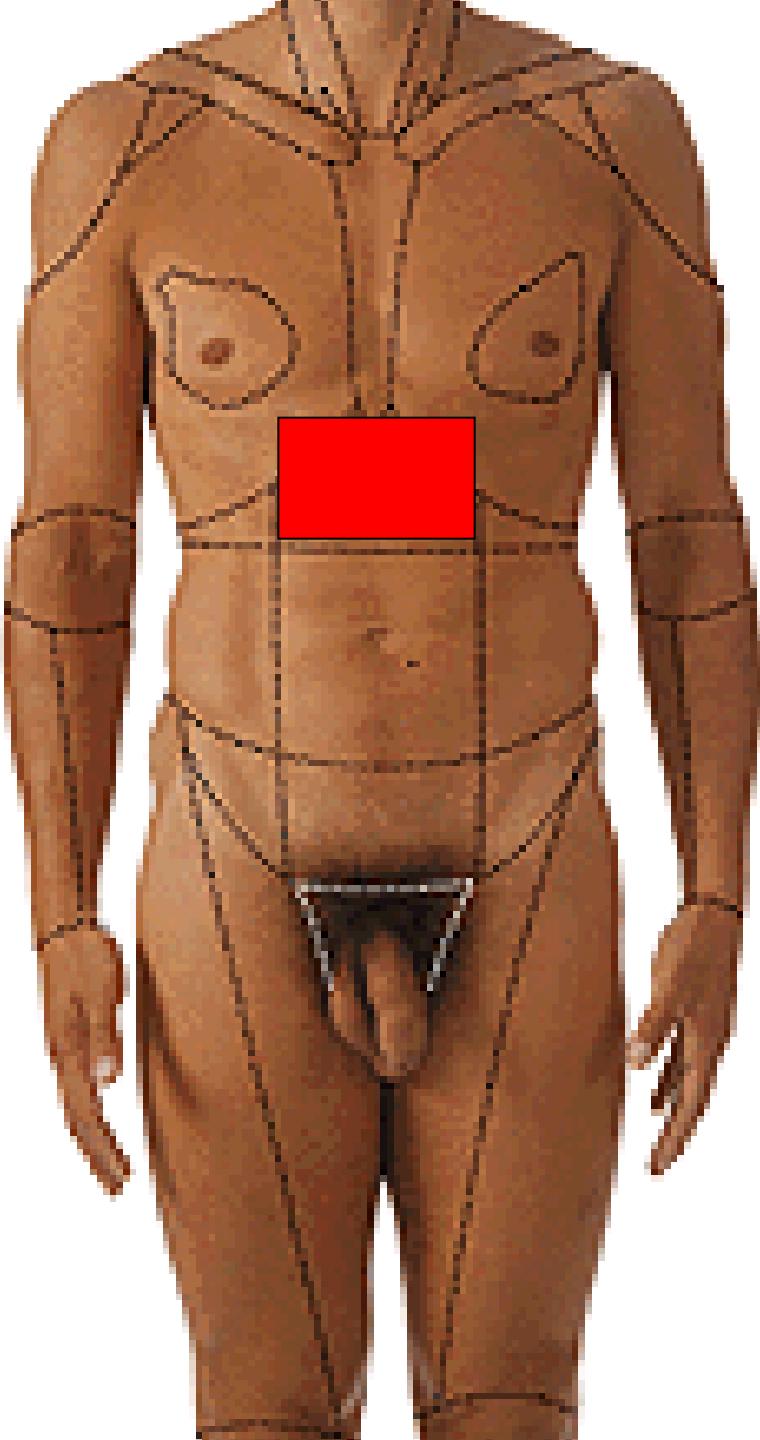


# HYPOGASTRIUM

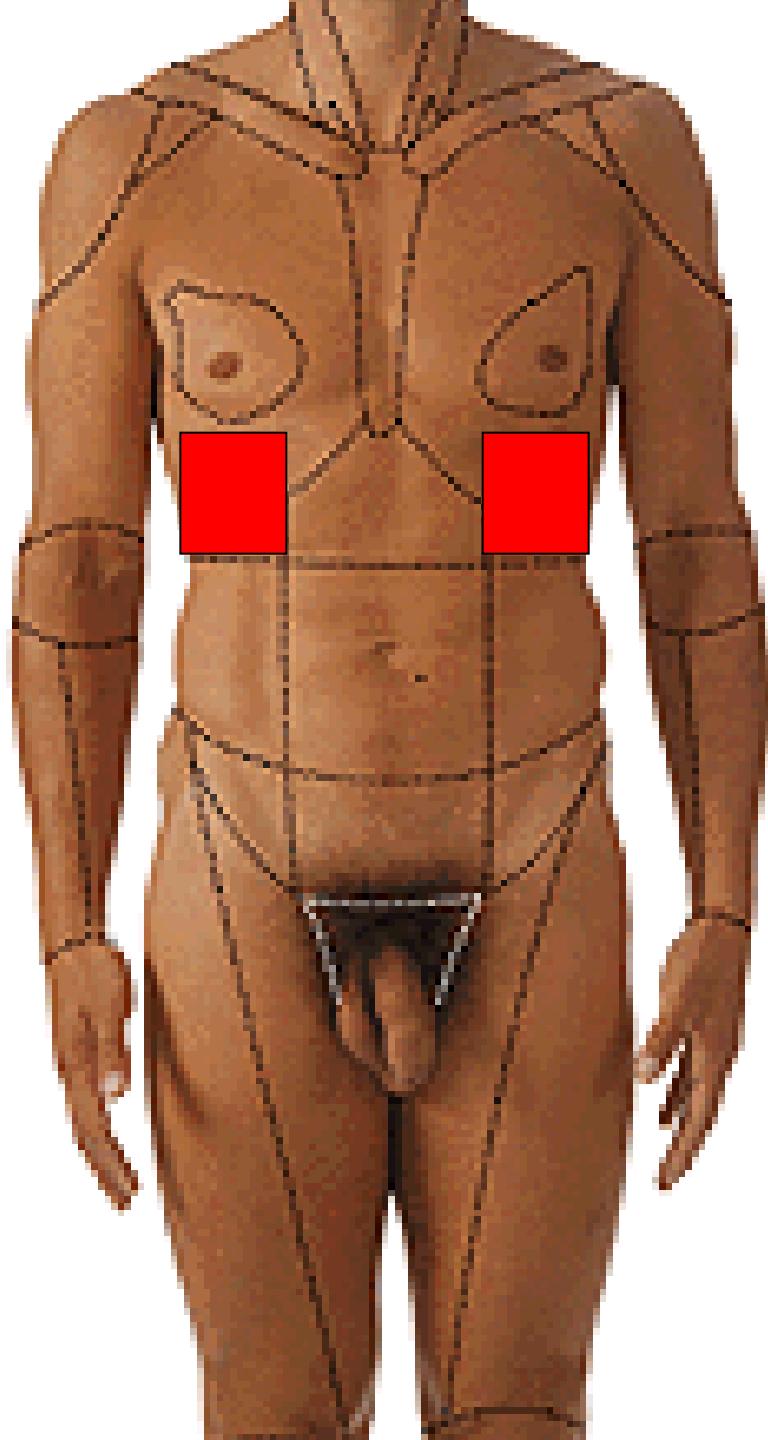




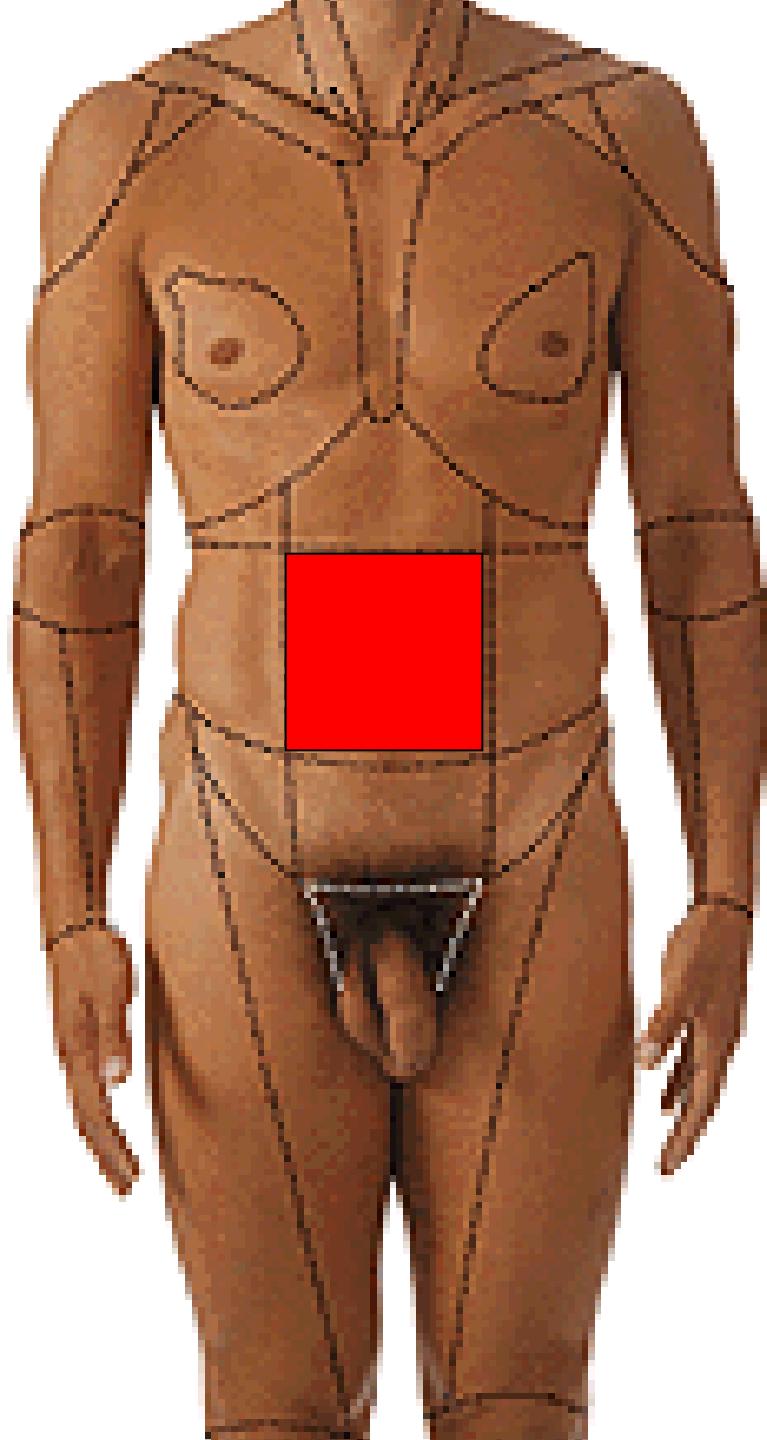
# **REGIO EPIGASTRICA**



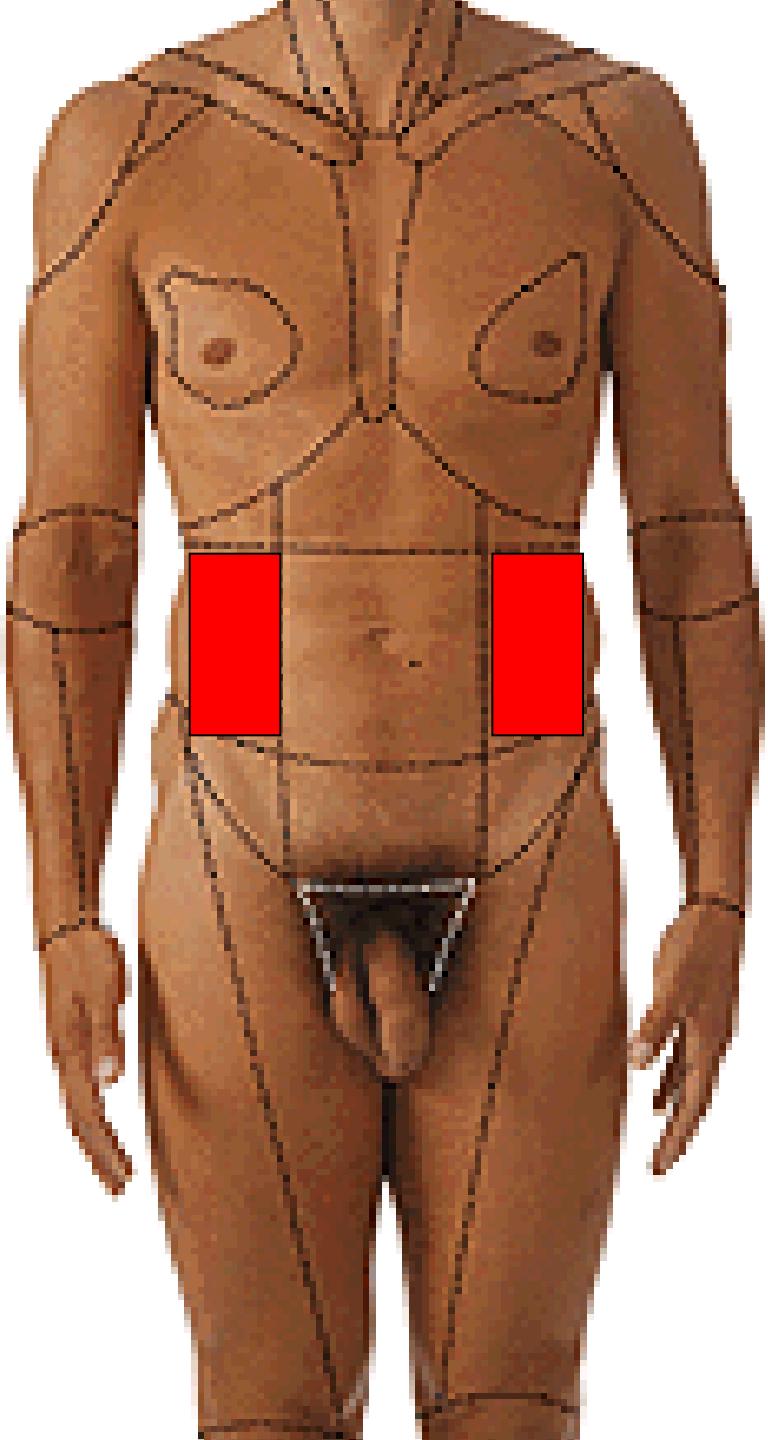
# **REGIO HYPOCHONDRIACA DEXTRA ET SINISTRA**



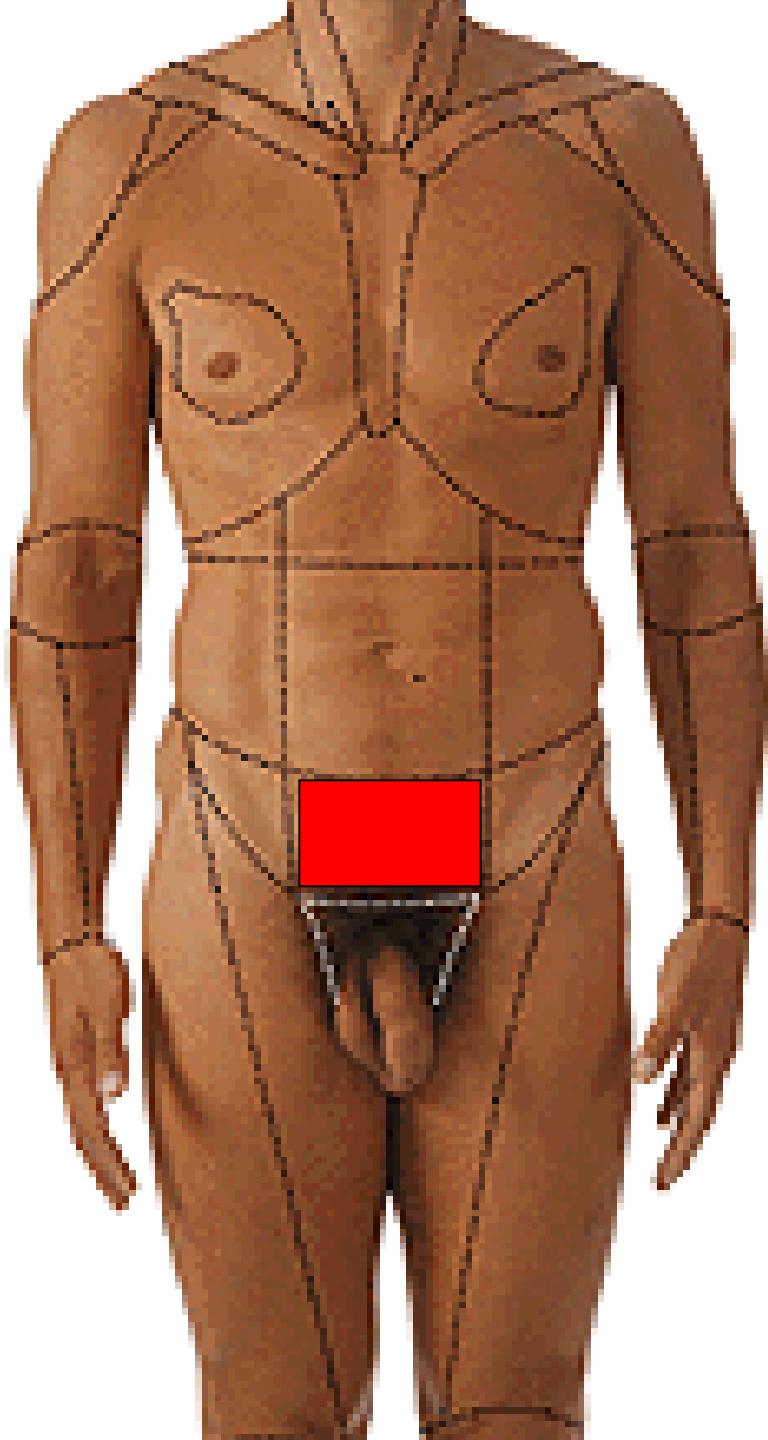
# **REGIO UMBILICALIS**



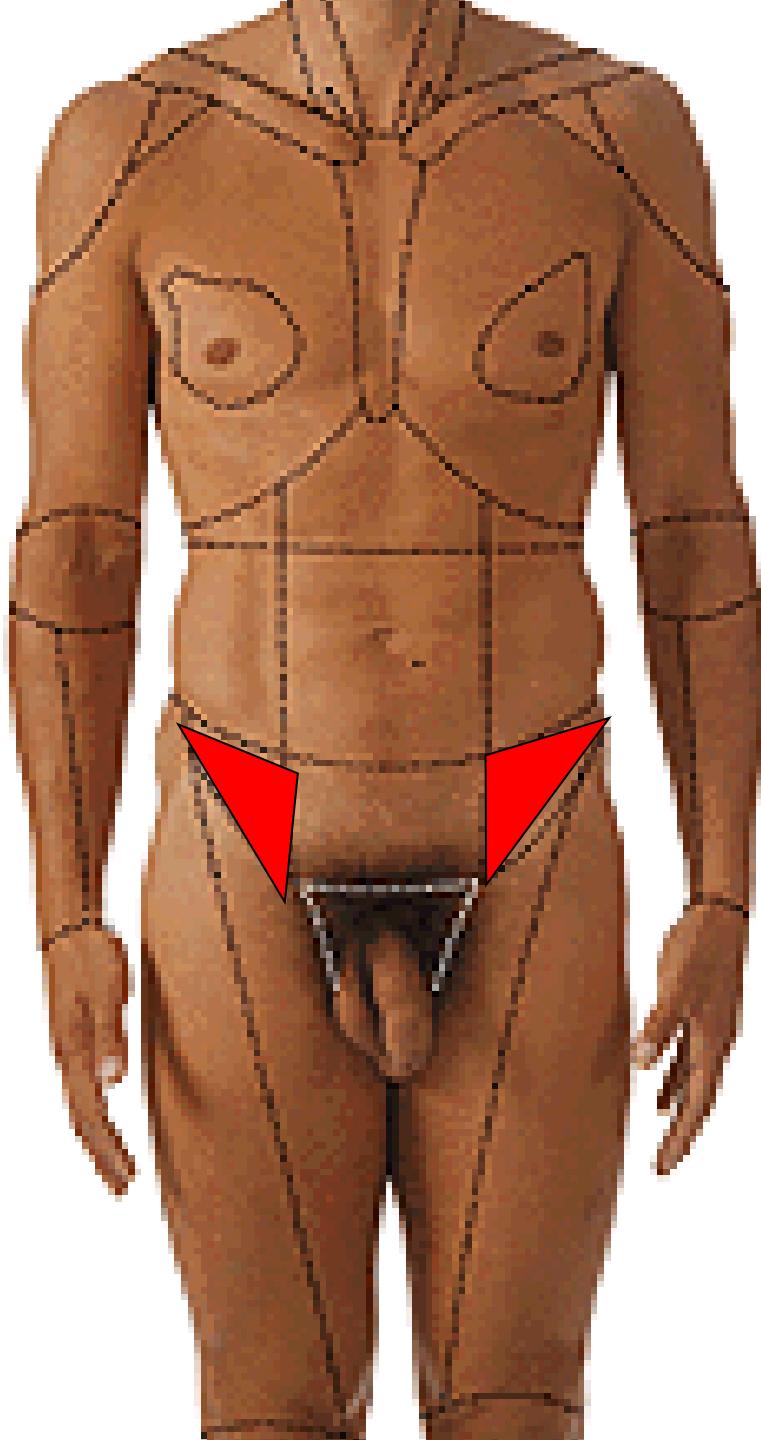
# **REGIO LATERALIS DEXTRA ET SINISTRA**



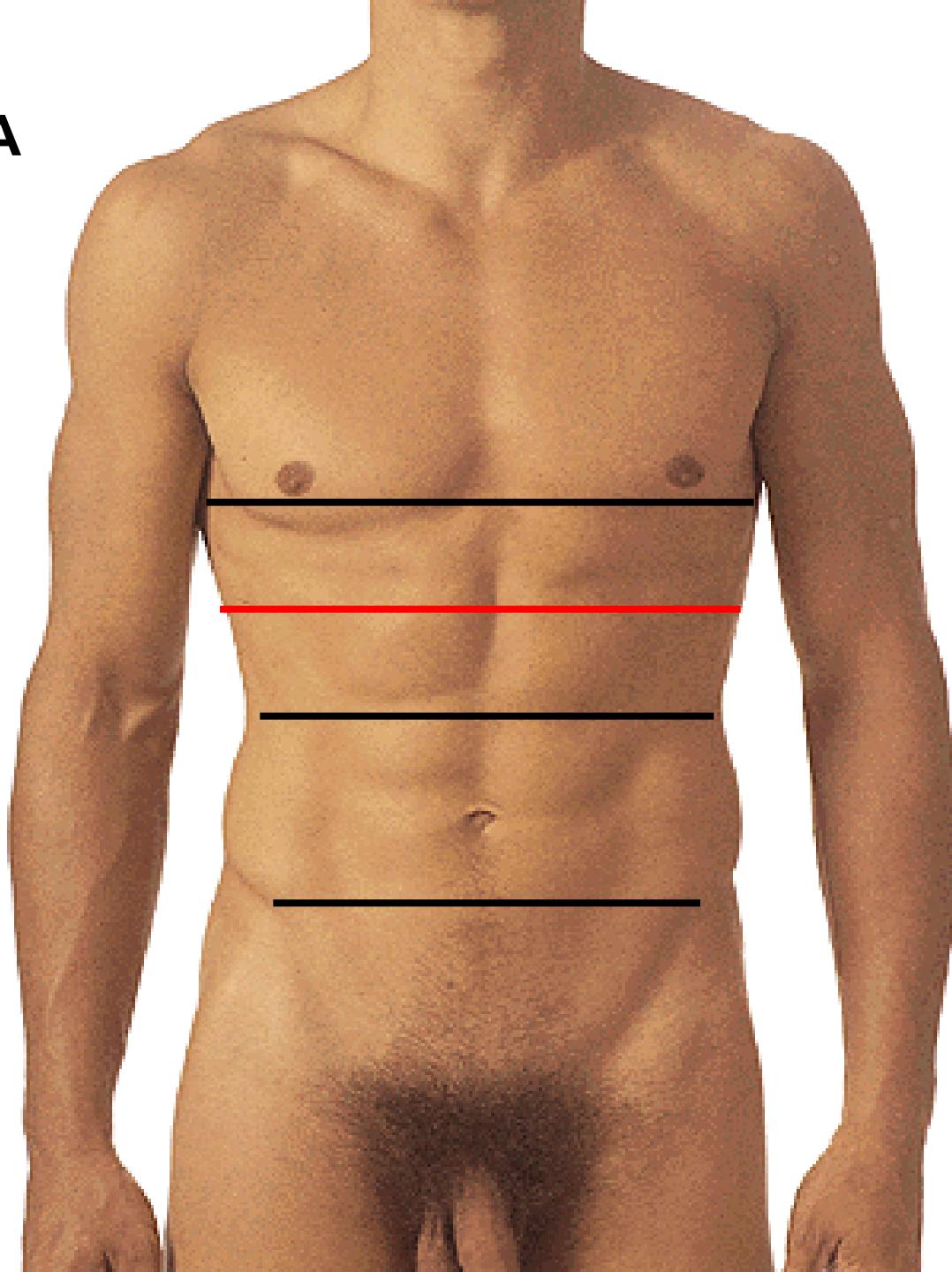
# **REGIO PUBICA**



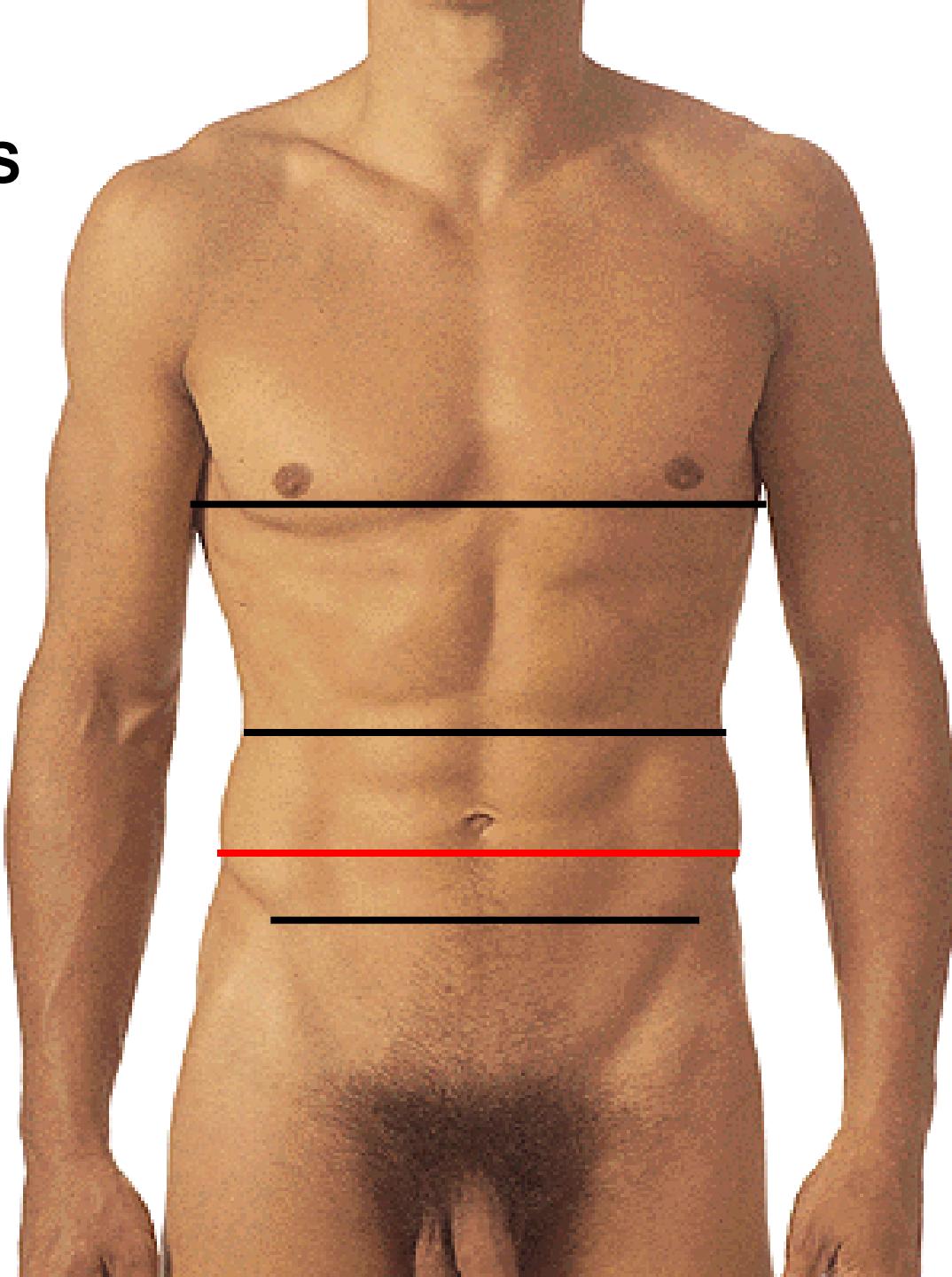
# **REGIO INGUINALIS DEXTRA ET SINISTRA**



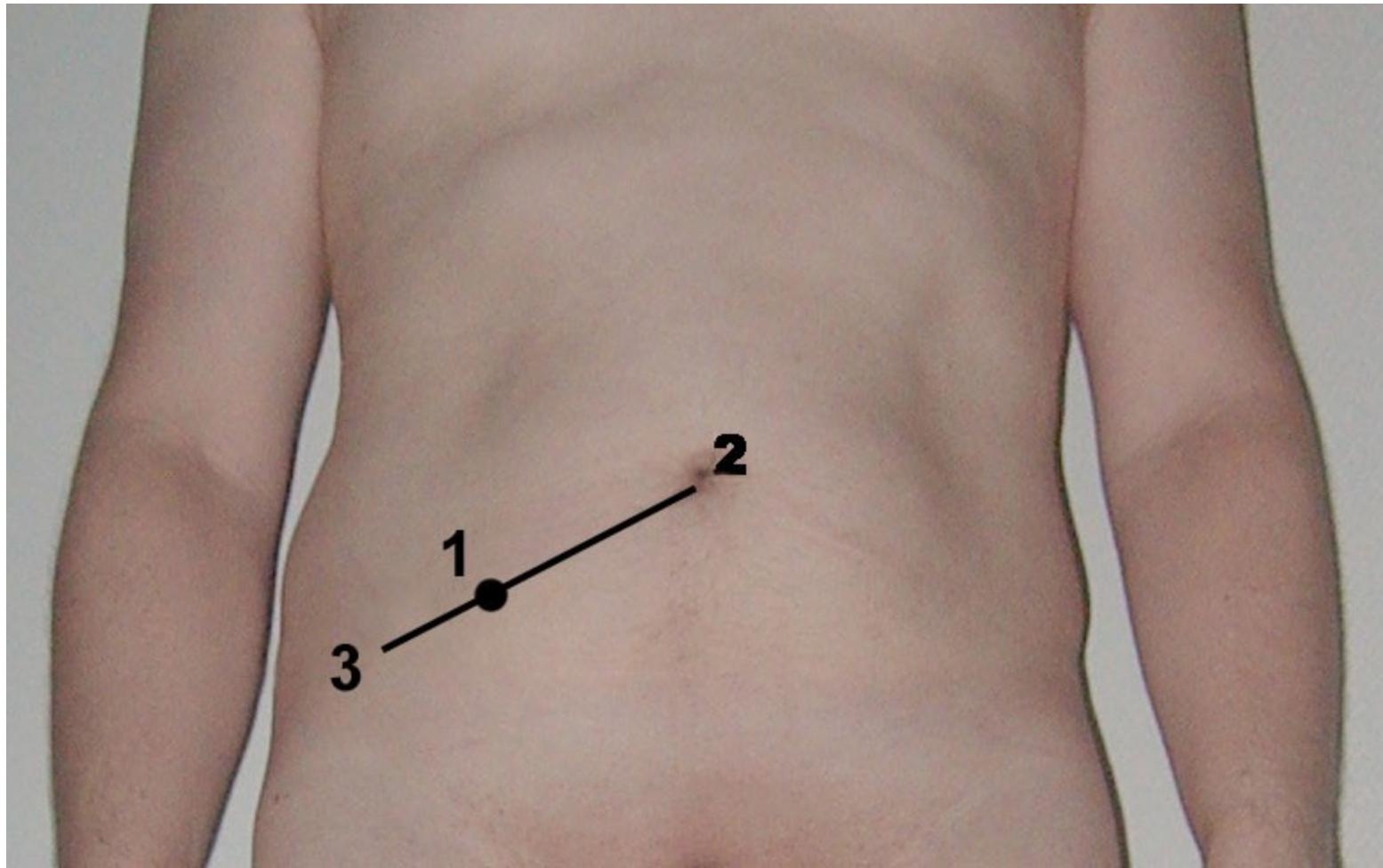
# LINEA TRANSPYLORICA



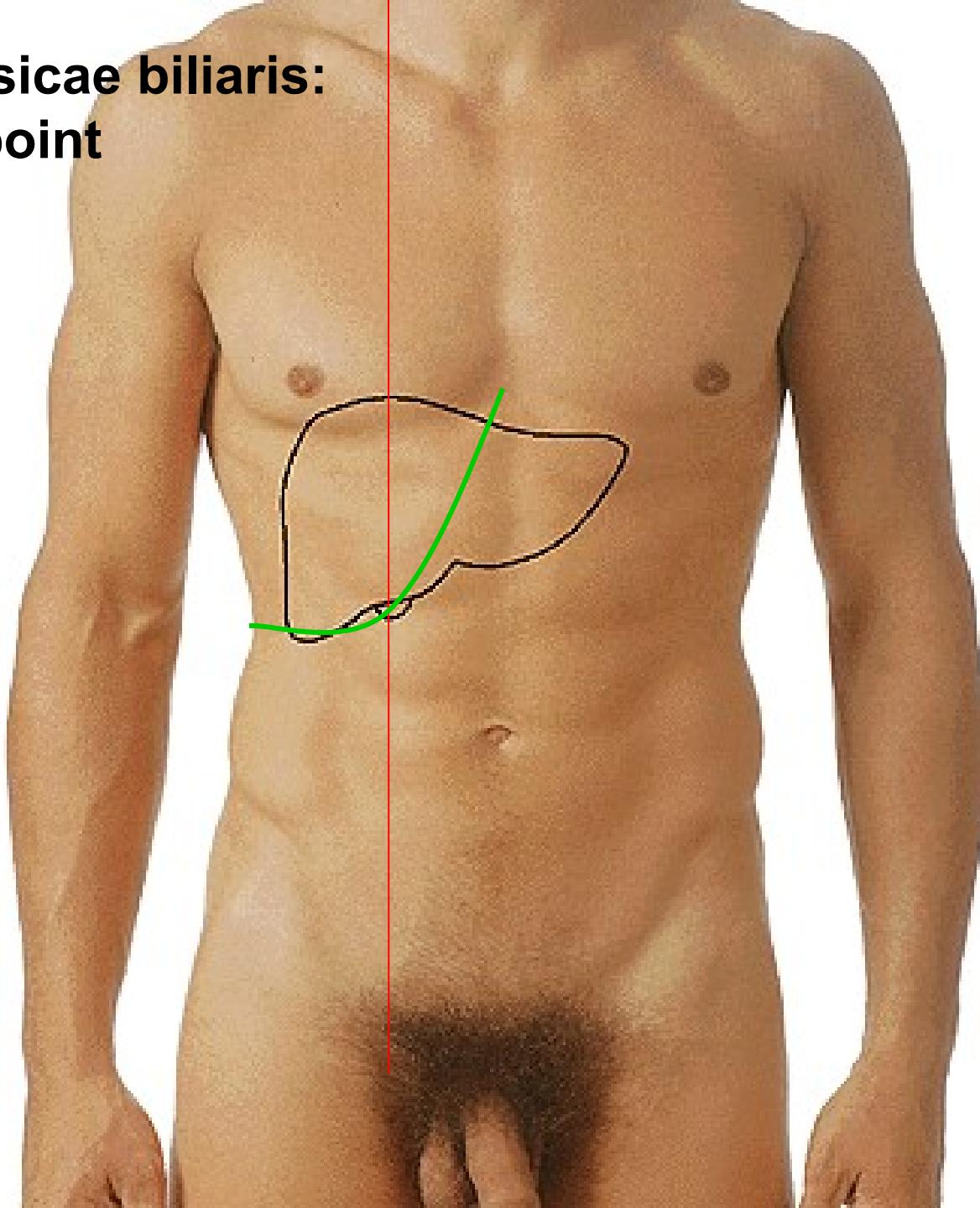
# LINEA INTERCristALIS

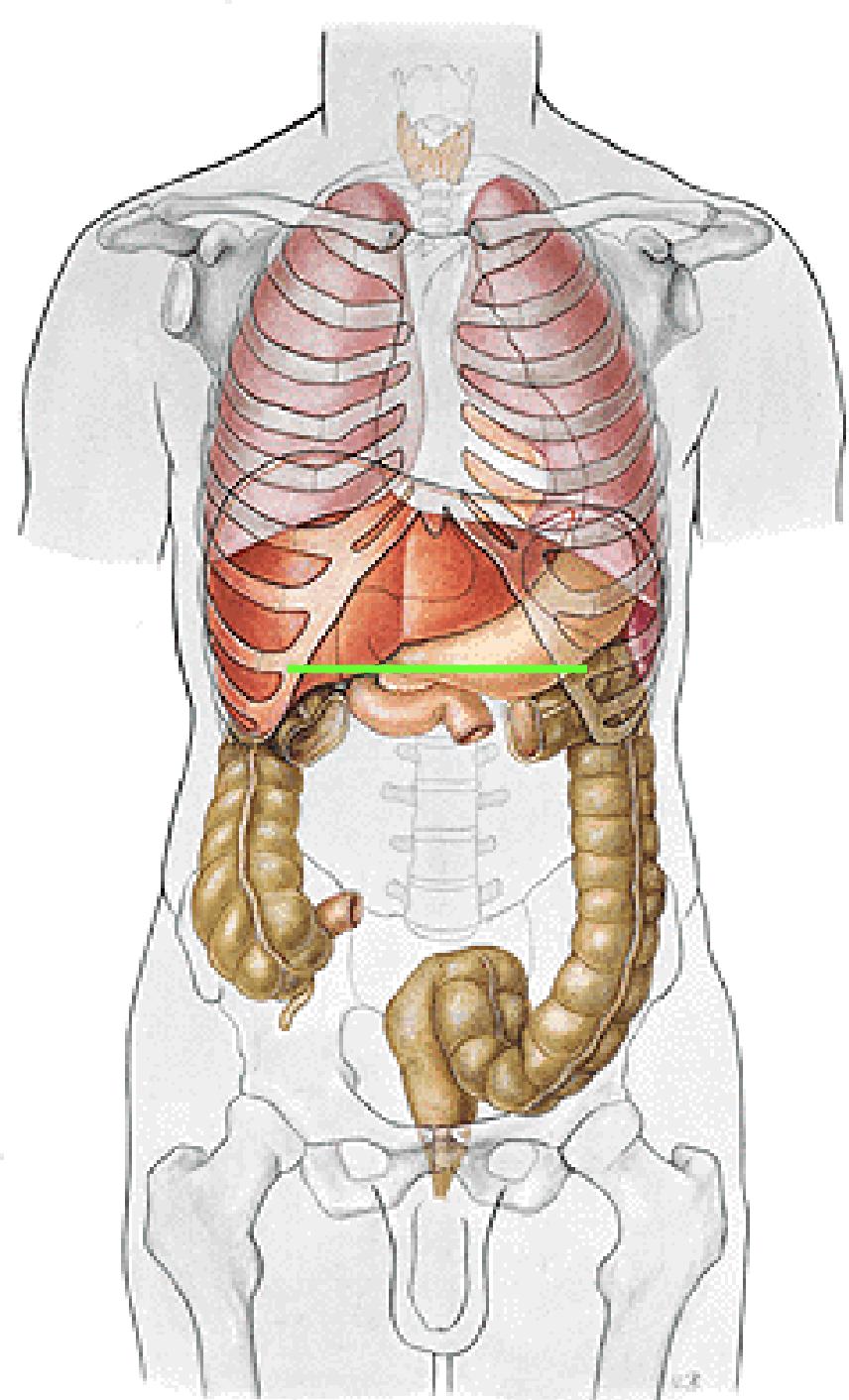


# **Appendix vermiciformis: Mac Burney's point (Monro's line)**



# Fundus vesicae biliaris: Murphy's point

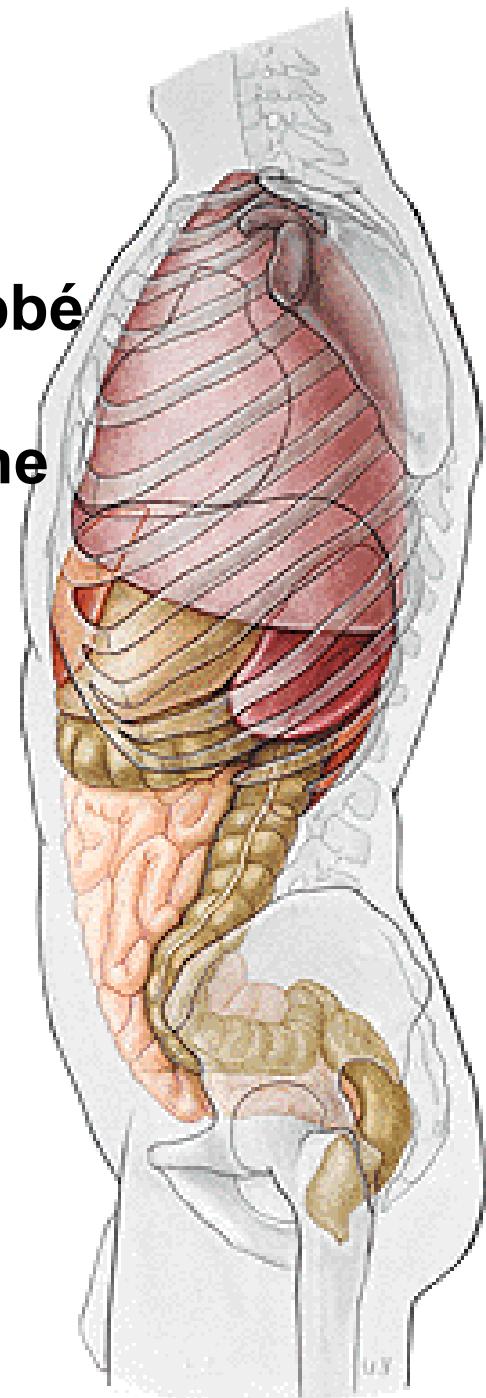




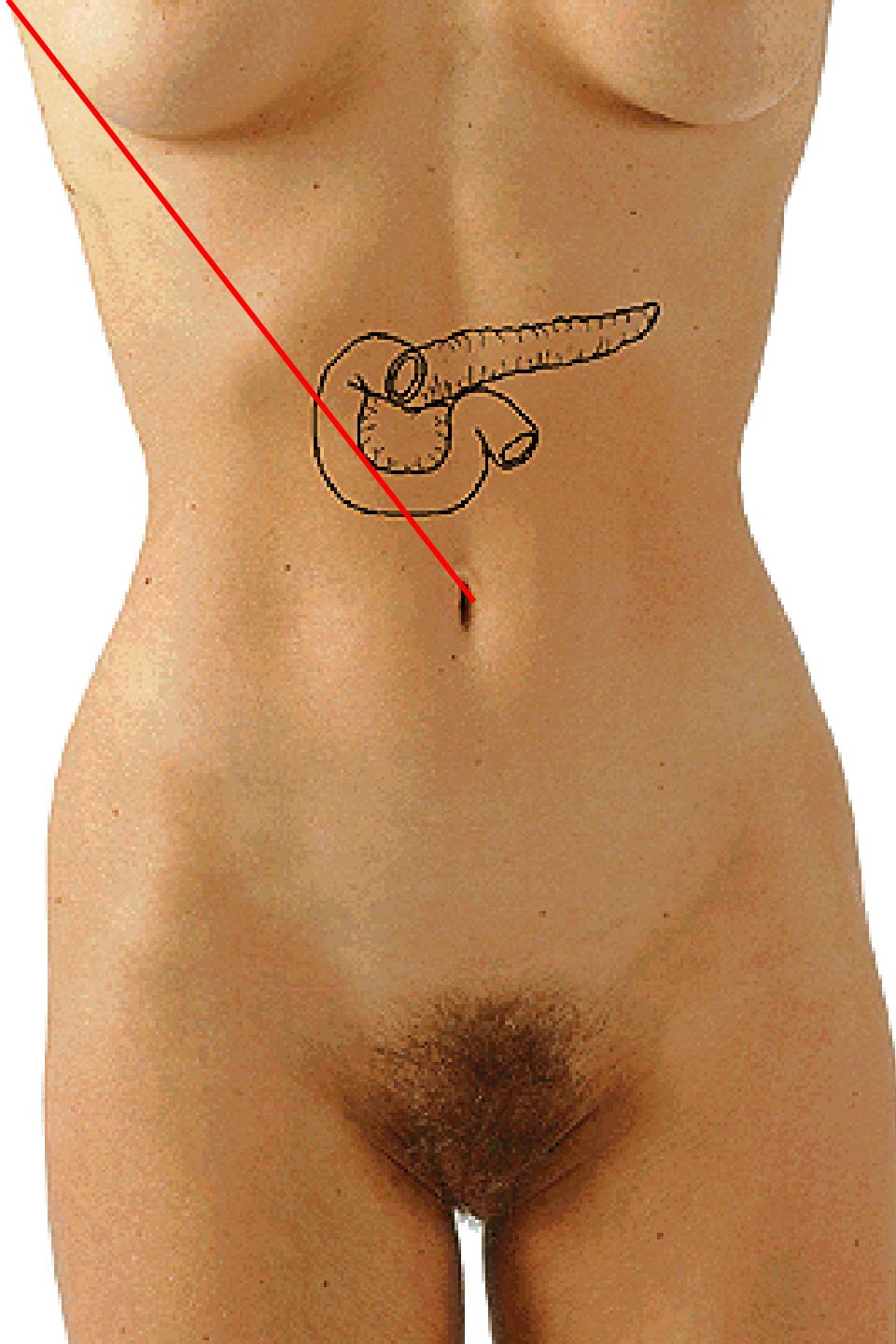
**Ventriculus:**

**Triangle of Labbé**

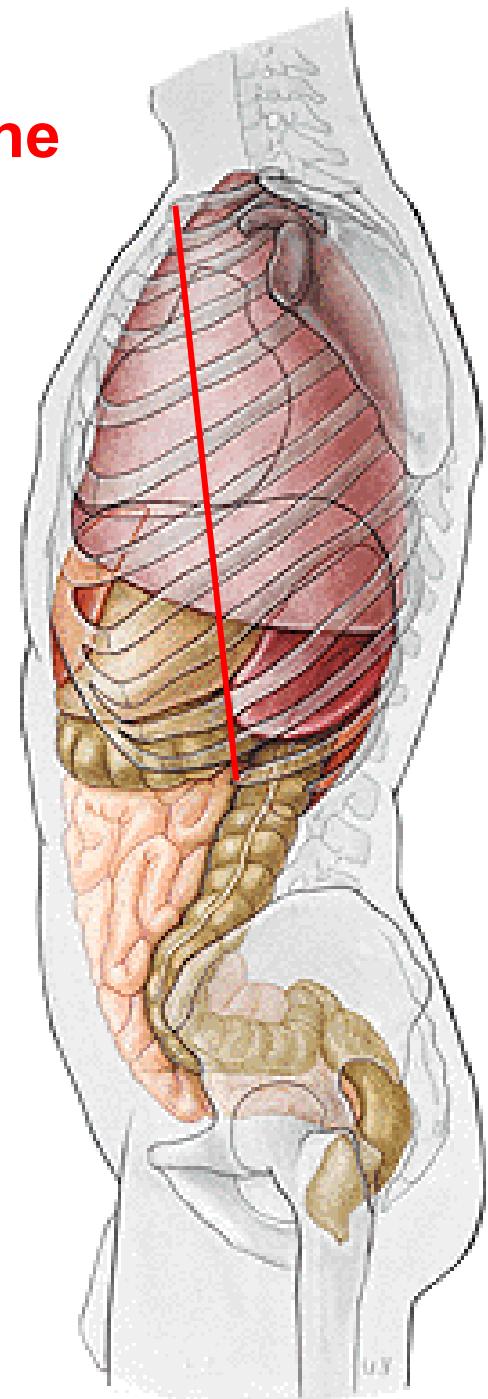
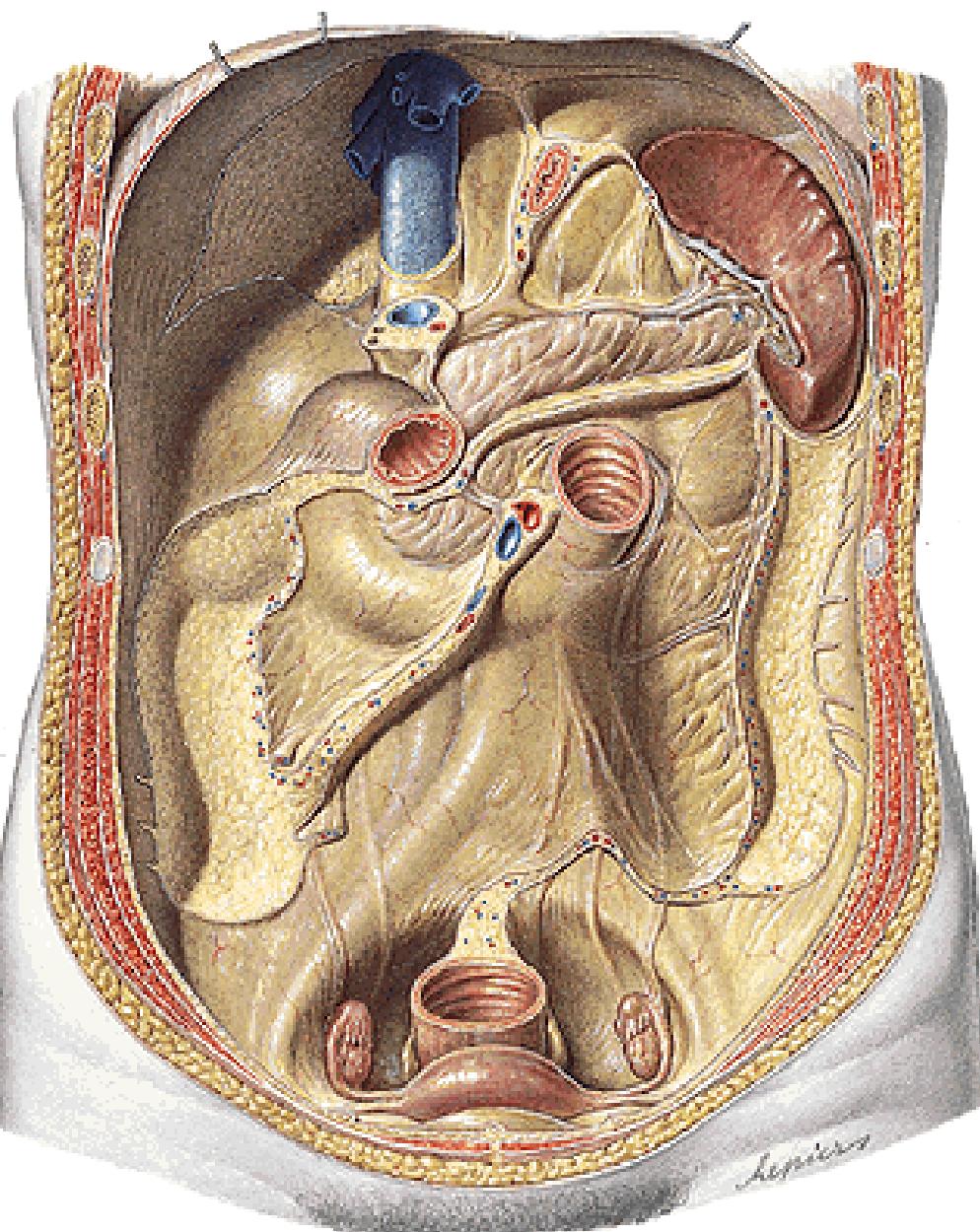
**transpyloric line**



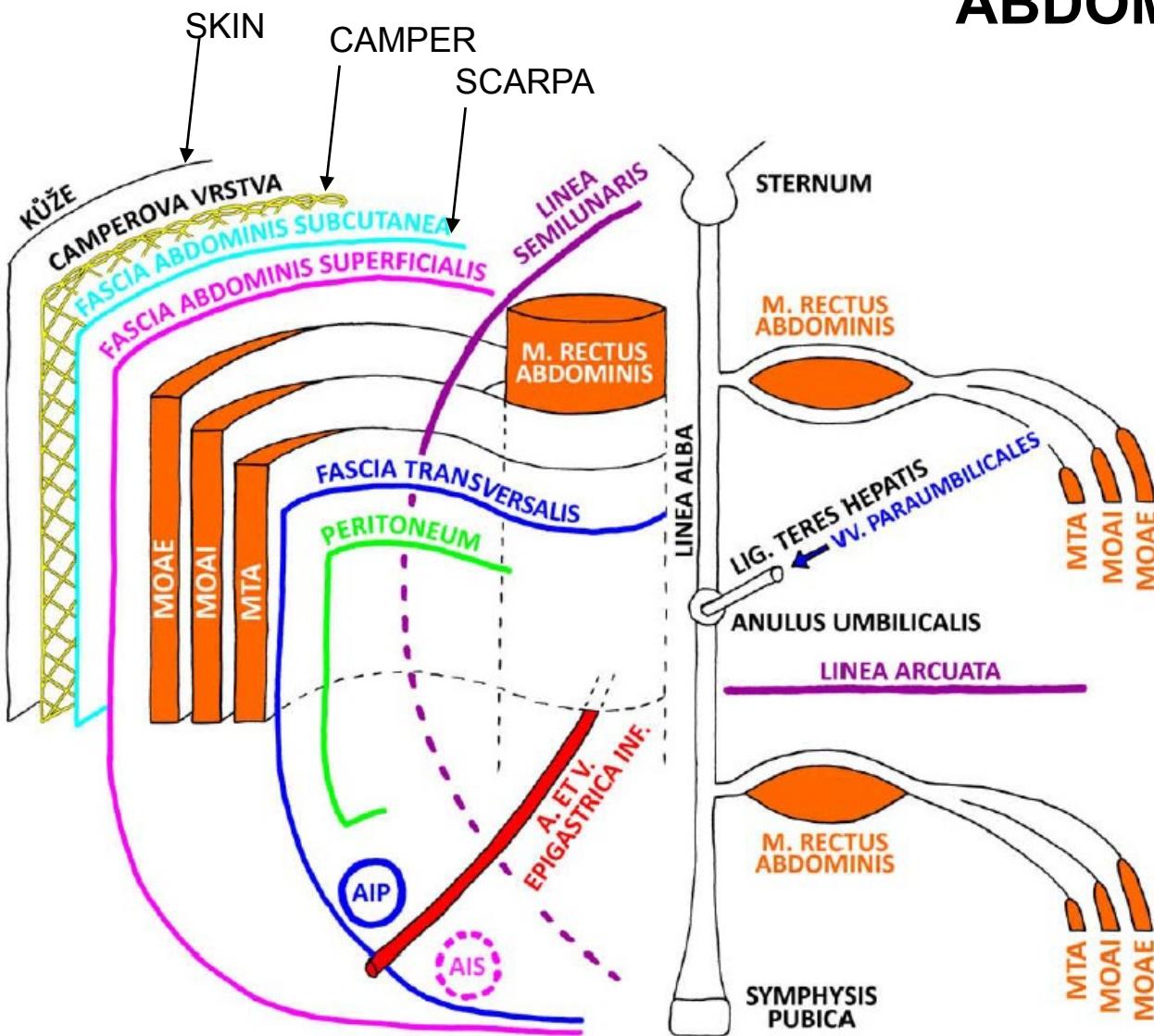
**Papilla Vateri:**  
**Umbilico-axillary line**  
- point of Desjardins



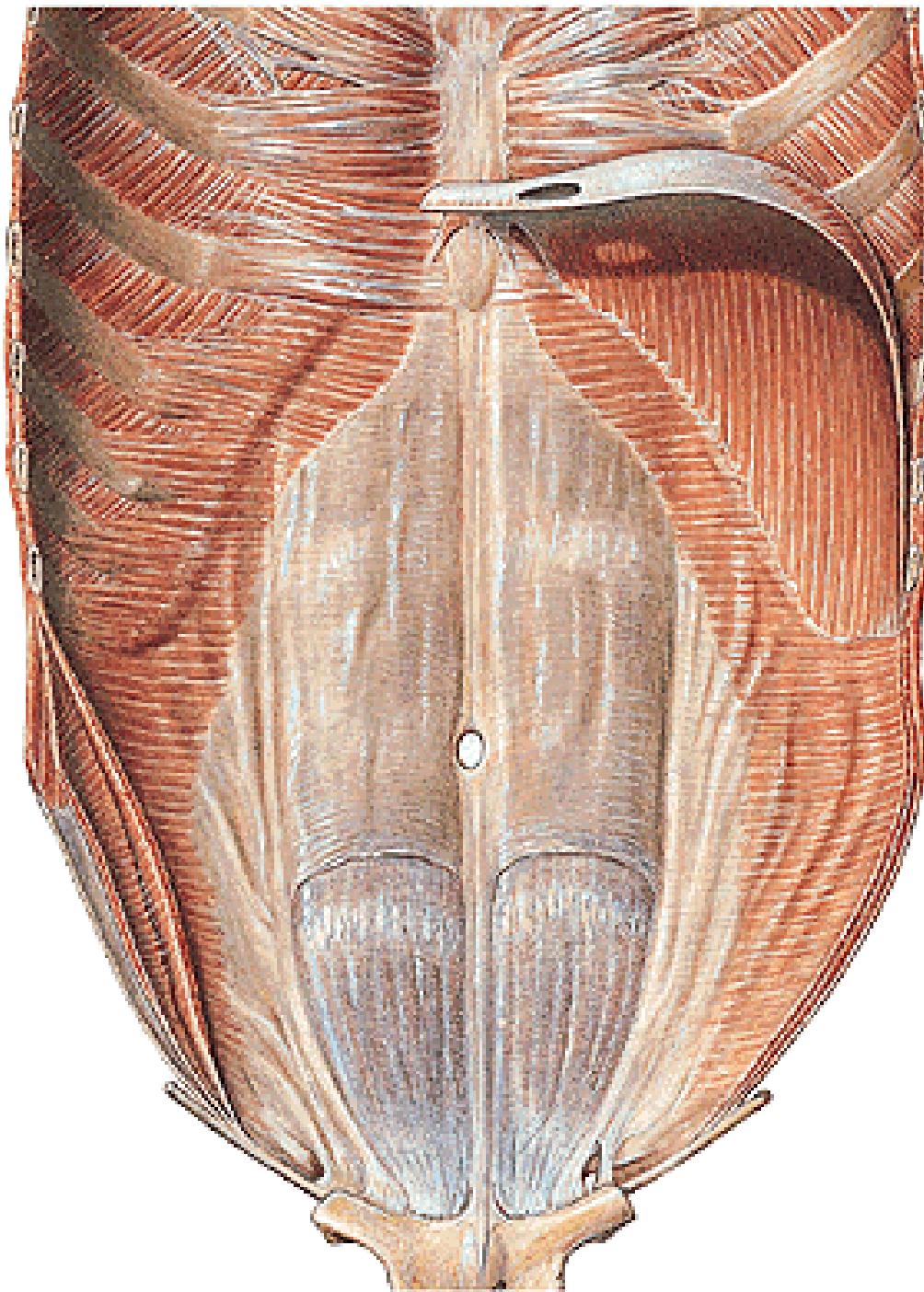
## Costoarticular line



# ABDOMINAL WALL

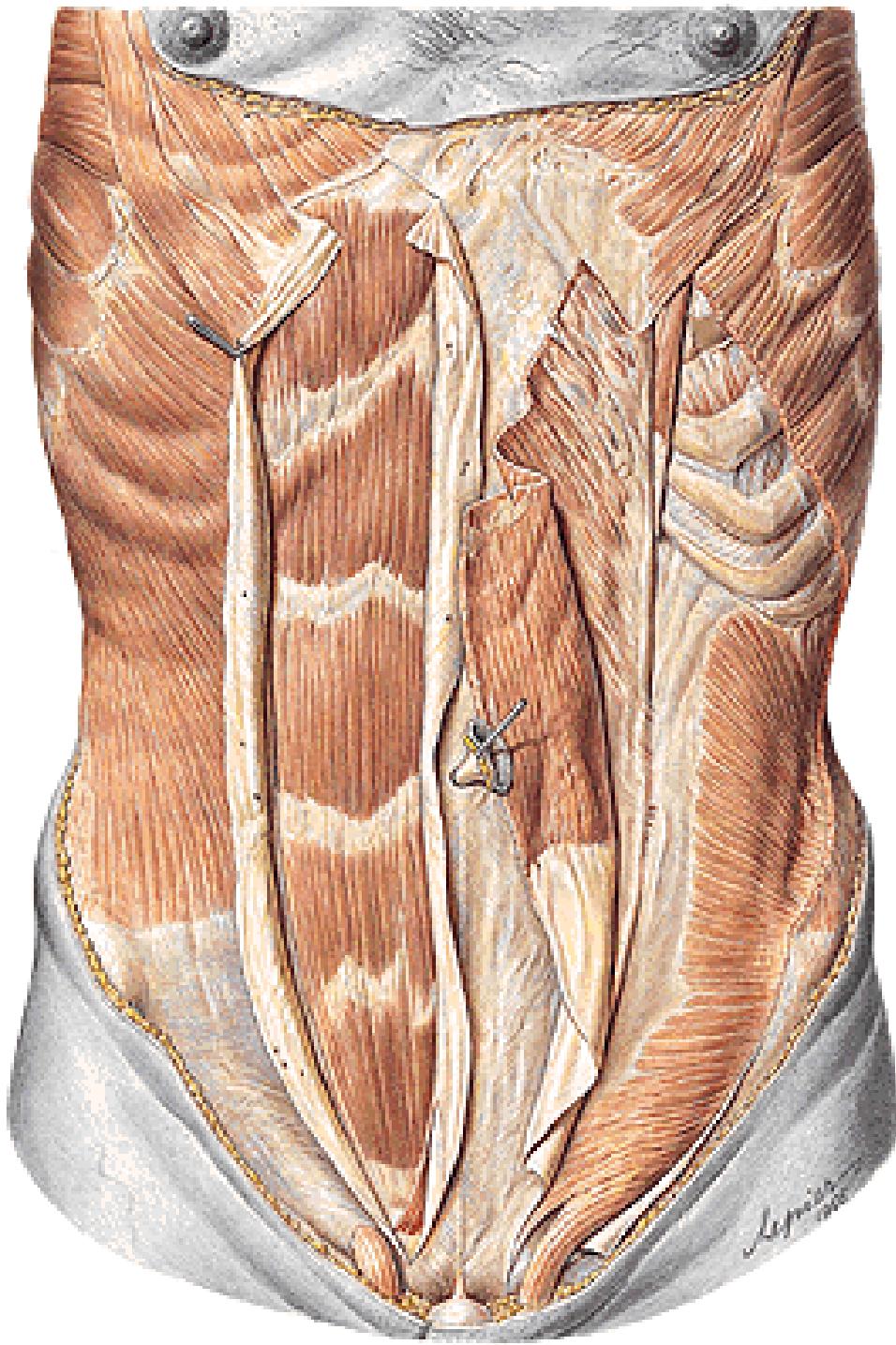


**MOAE** - *M. OBLIQUUS ABDOMINIS EXTERNUS*  
**MOAI** - *M. OBLIQUUS ABDOMINIS INTERNUS*  
**MTA** - *M. TRANSVERSUS ABDOMINIS*  
**AIP** - *ANULUS INGUINALIS PROFUNDUS*  
**AIS** - *ANULUS INGUINALIS SUPERFICIALIS*



**LINEA ARCUATA**

# VAGINA M. RECTI ABDOMINIS



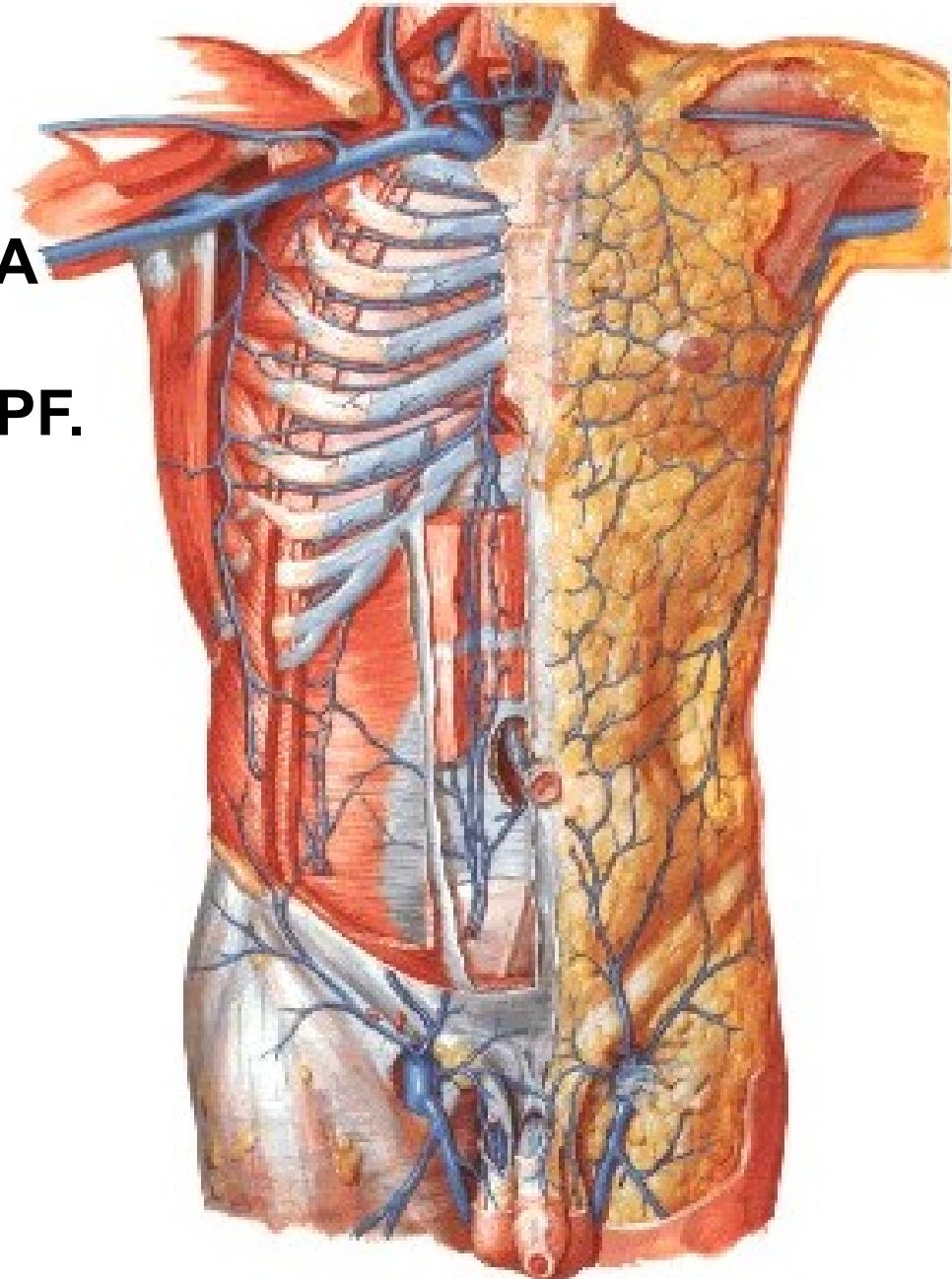
**VV. SUBCUTANAE ABD.**

**V. THORACOEPIGASTRICA**

**V. EPIGASTRICA SPF.**

**V. CIRCUMFLEXA ILIUM SPF.**

**VV. PARAUMBILICALES**



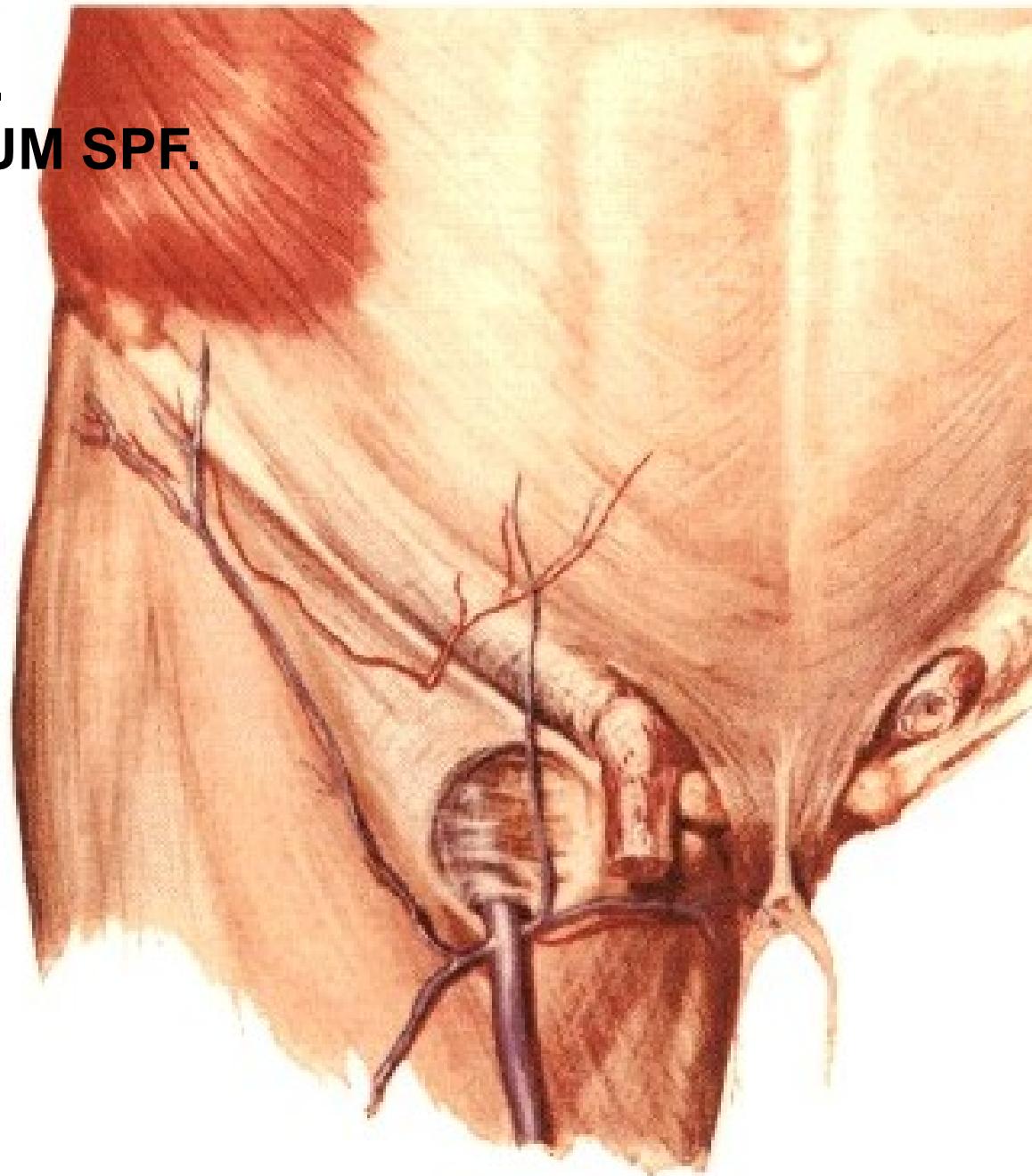
**A. EPIGASTRICA SPF.**

**A. CIRCUMFLEXA ILIUM SPF.**

**AA. INTERCOSTALES**

**A. SUBCOSTALIS**

**AA. LUMBALES**



**A. EPIGASTRICA SUP.**

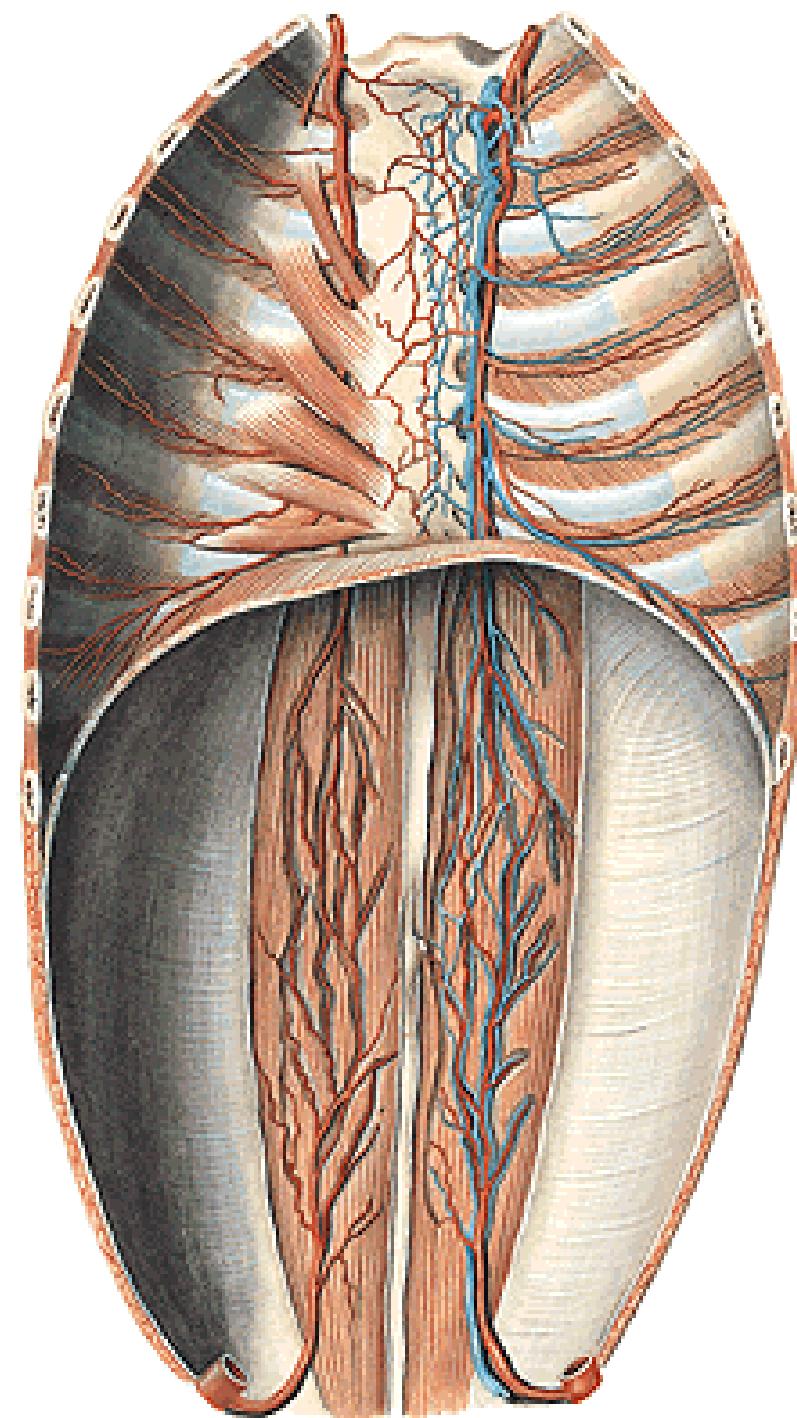
**A. EPIGASTRICA INF.**

**A. CIRCUMFLEXA ILIUM PROF.**

**AA. INTERCOSTALES**

**A. SUBCOSTALIS**

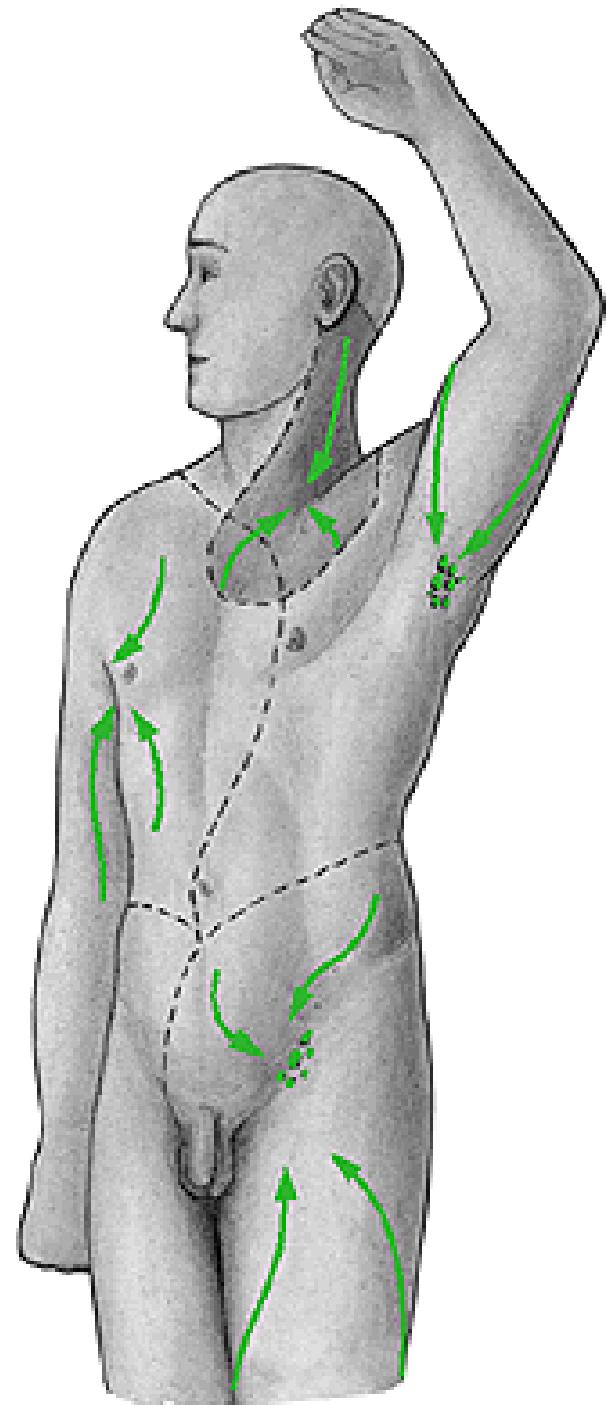
**AA. LUMBALES**



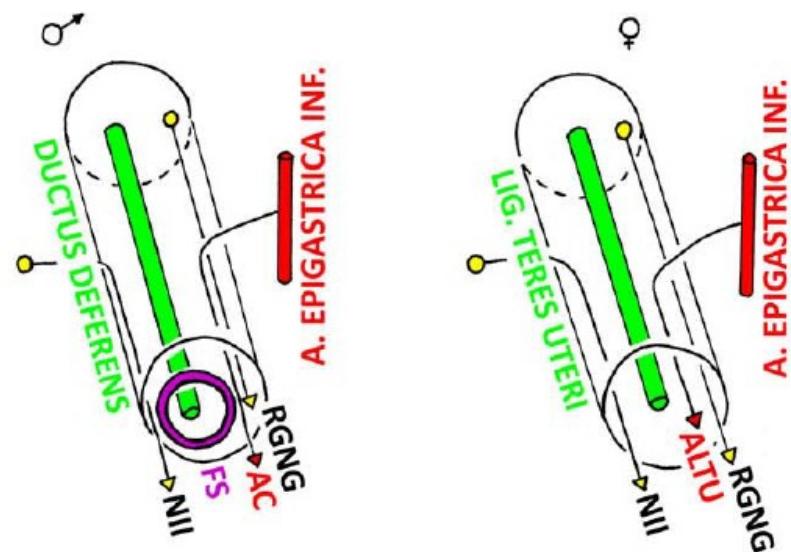
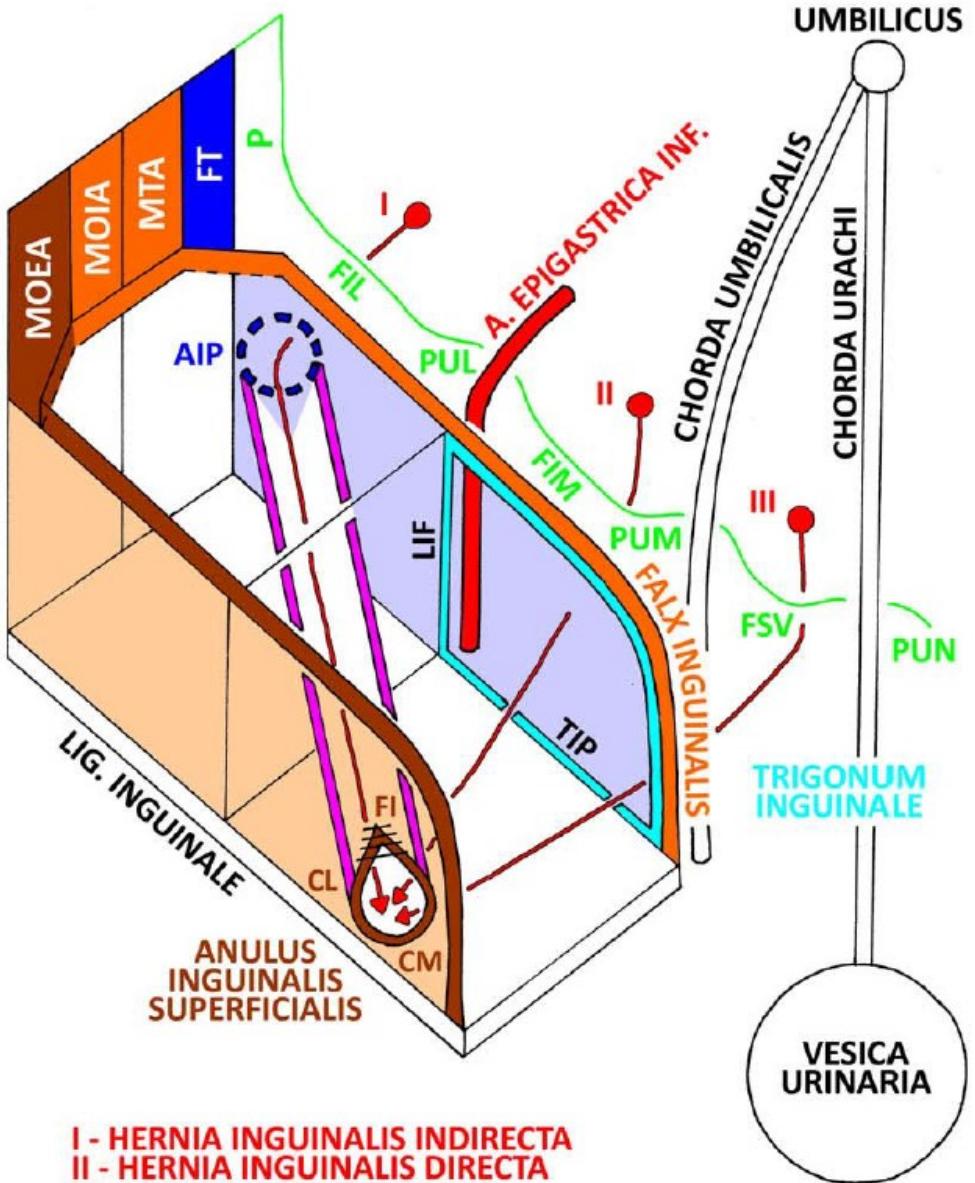
**NN. INTERCOSTALES**  
**N. SUBCOSTALIS**  
**N. ILOHYPOGASTRICUS**  
**N. ILOINGINALIS**



# NODI LYMPHATICI AXILLARES NODI LYMPHATICI INGUINALES SPF.



# 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. GENITOFRONTRALIS  
**ALTU** - A. LIGAMENTI TERETIS UTERI

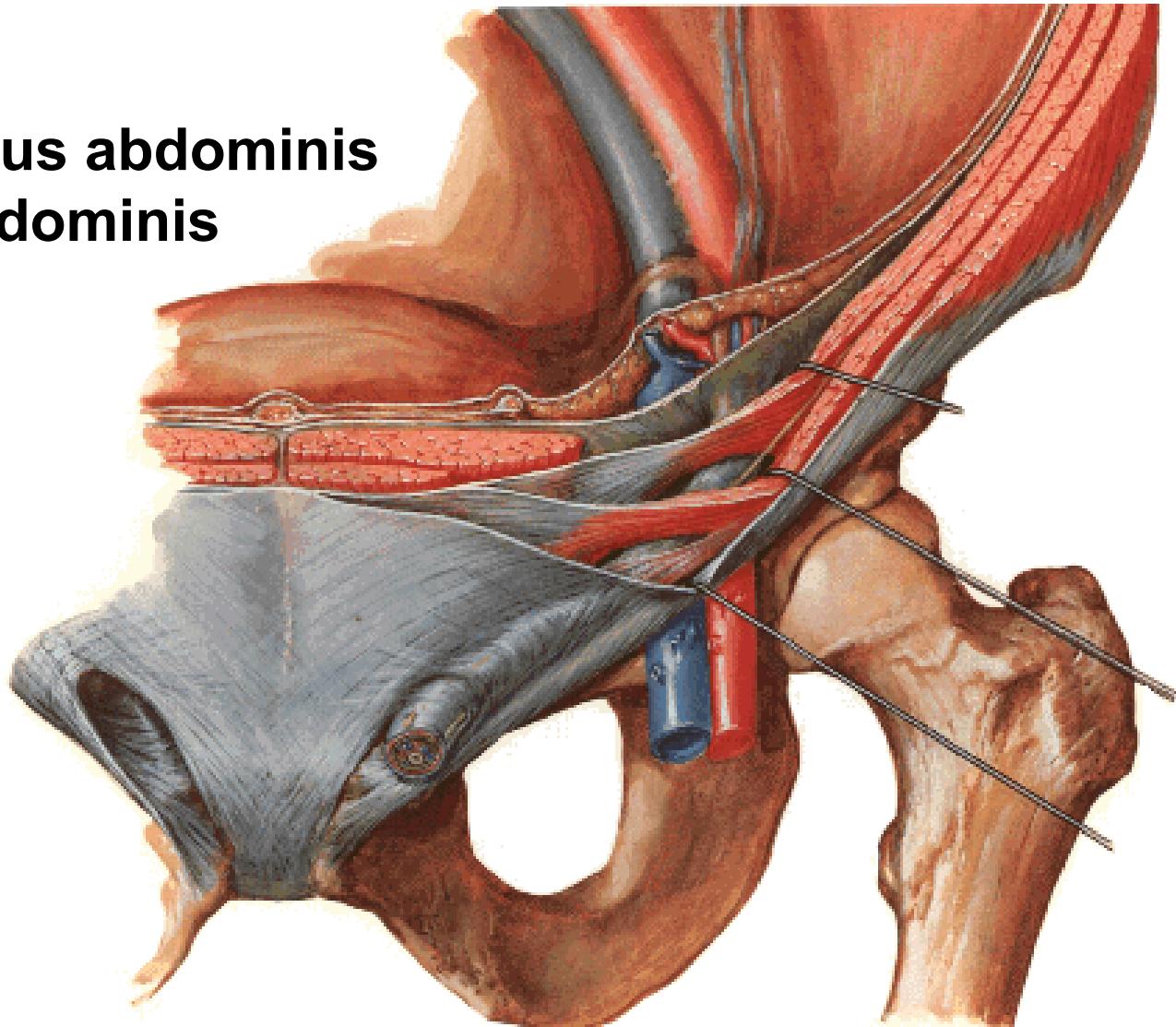
# CANALIS INGUINALIS

*Superior wall:*

M. obliquus internus abdominis

M. transversus abdominis

- M. cremaster



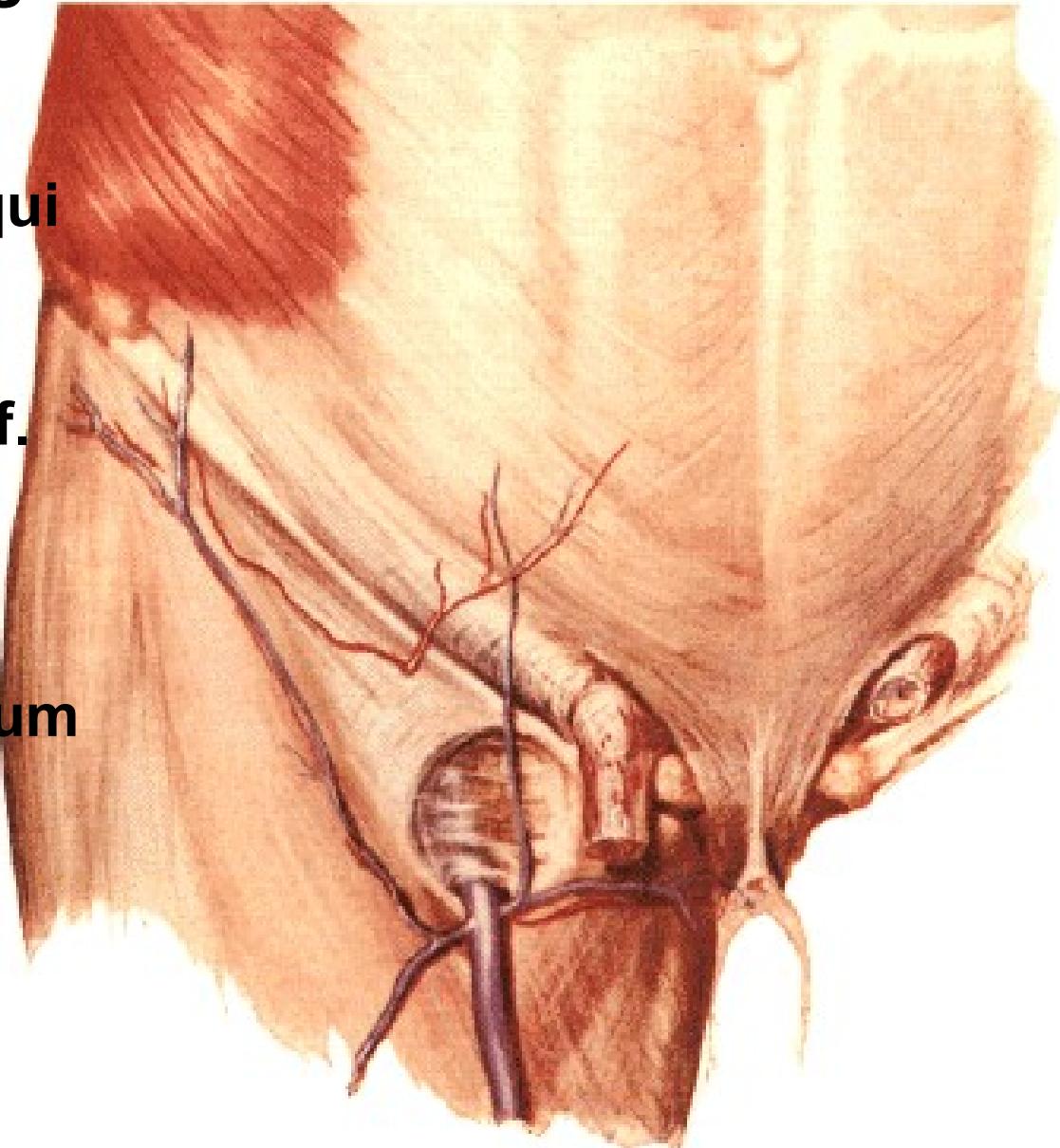
# CANALIS INGUINALIS

*Anterior wall:*

Aponeurosis m. obliqui  
externi abdominis

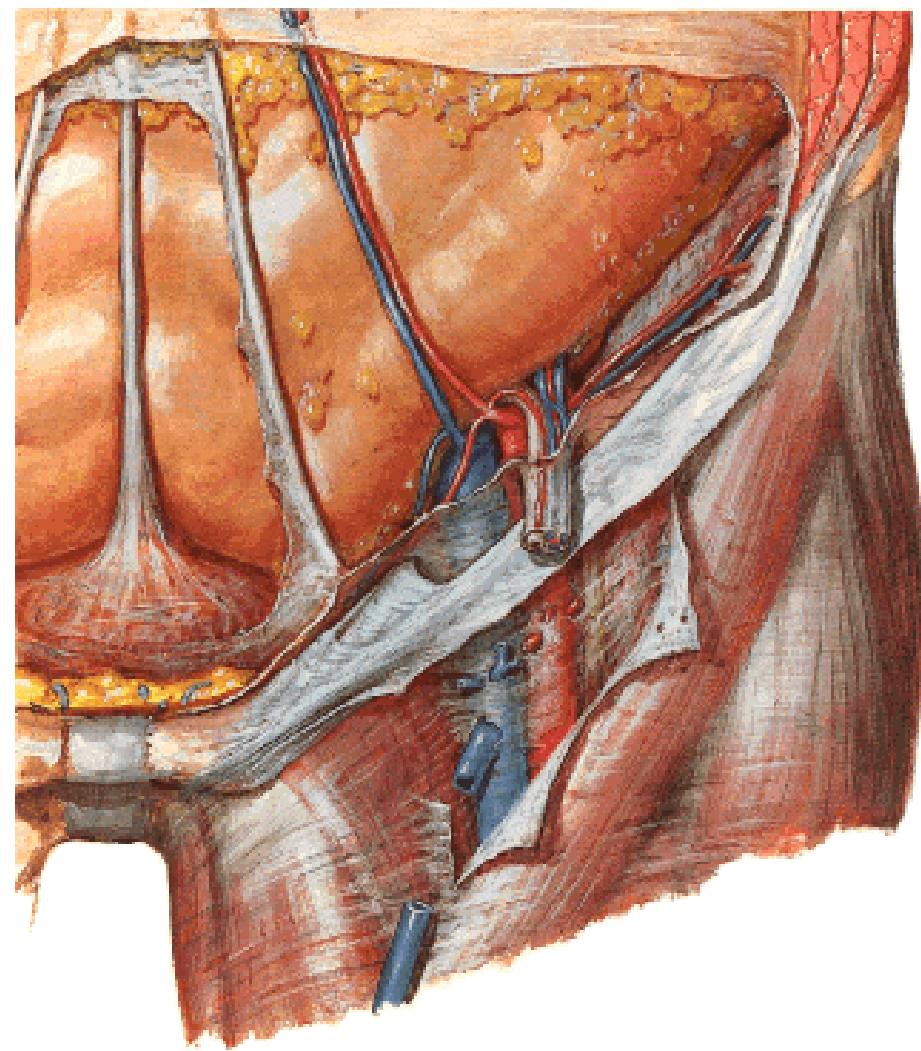
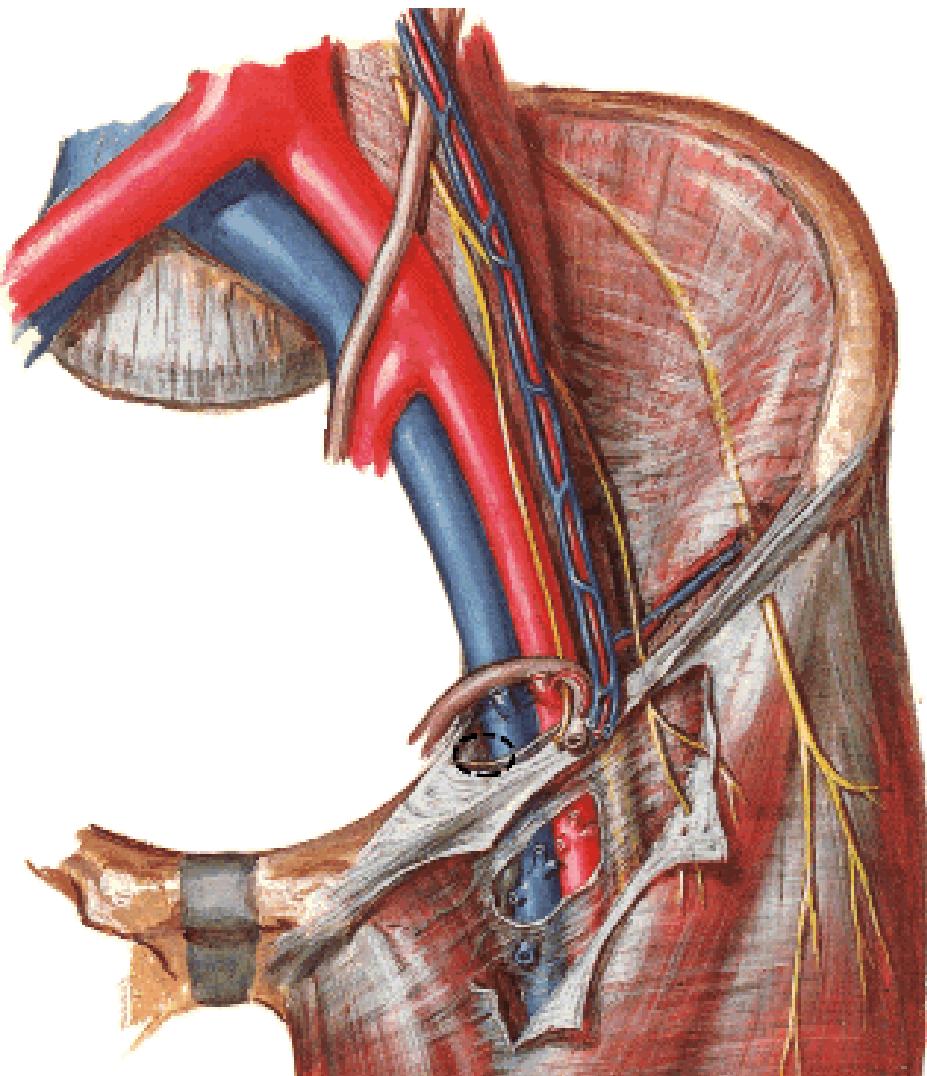
Anulus inguinalis spf.

- crus mediale
- crus laterale
- fibrae intercrurales
- lig. inguinale reflexum



# CANALIS INGUINALIS

*Inferior wall:*  
**Lig. inguinale**



# CANALIS INGUINALIS

*Posterior wall:*

Fascia transversalis:

Anulus inguinalis prof.

Lig. interfoveolare

Trigonum inguinale

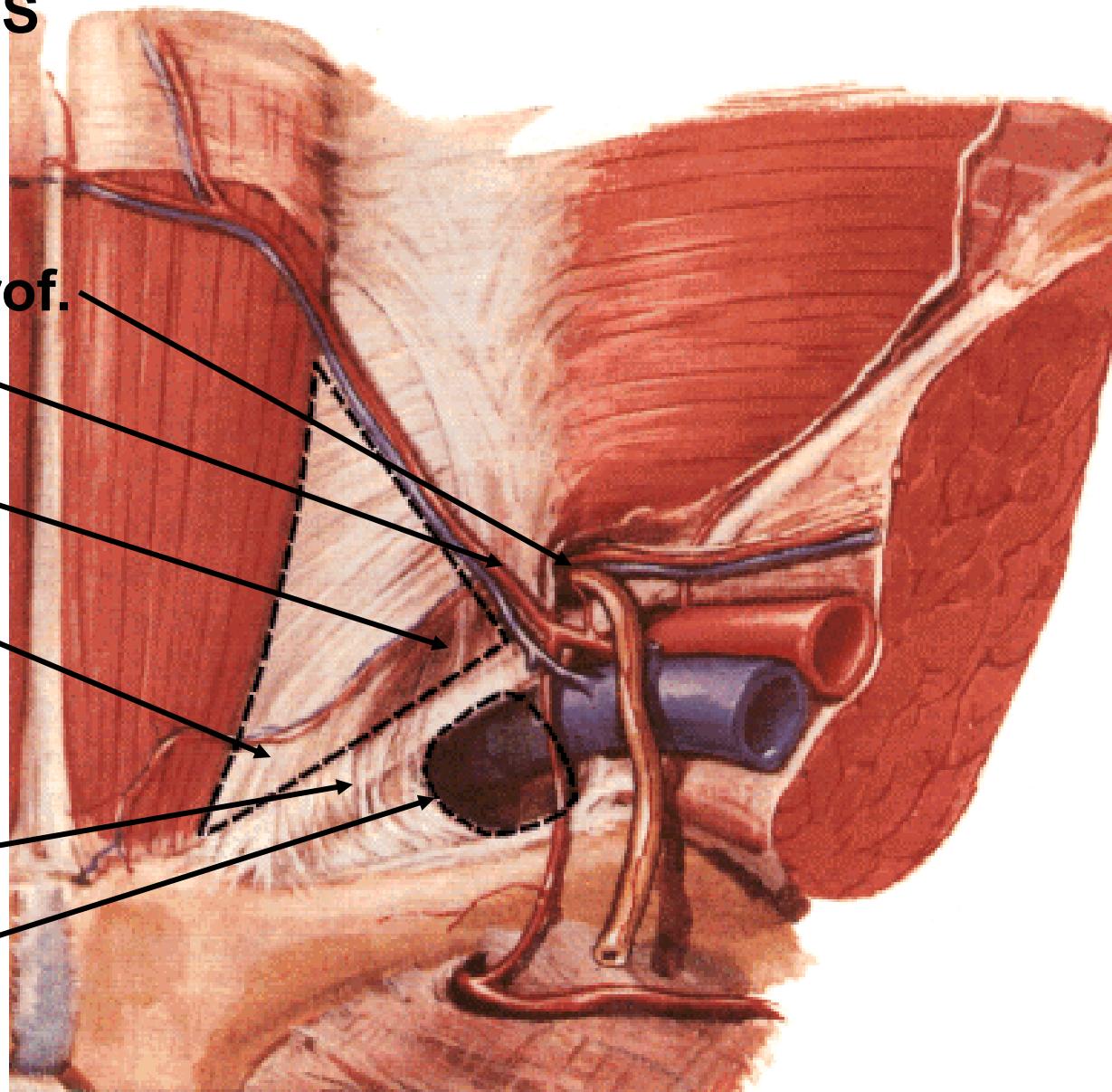
(Hesselbachi)

Falx inguinalis

(conjoint tendon)

Tractus iliopubicus

Anulus femoralis



**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**

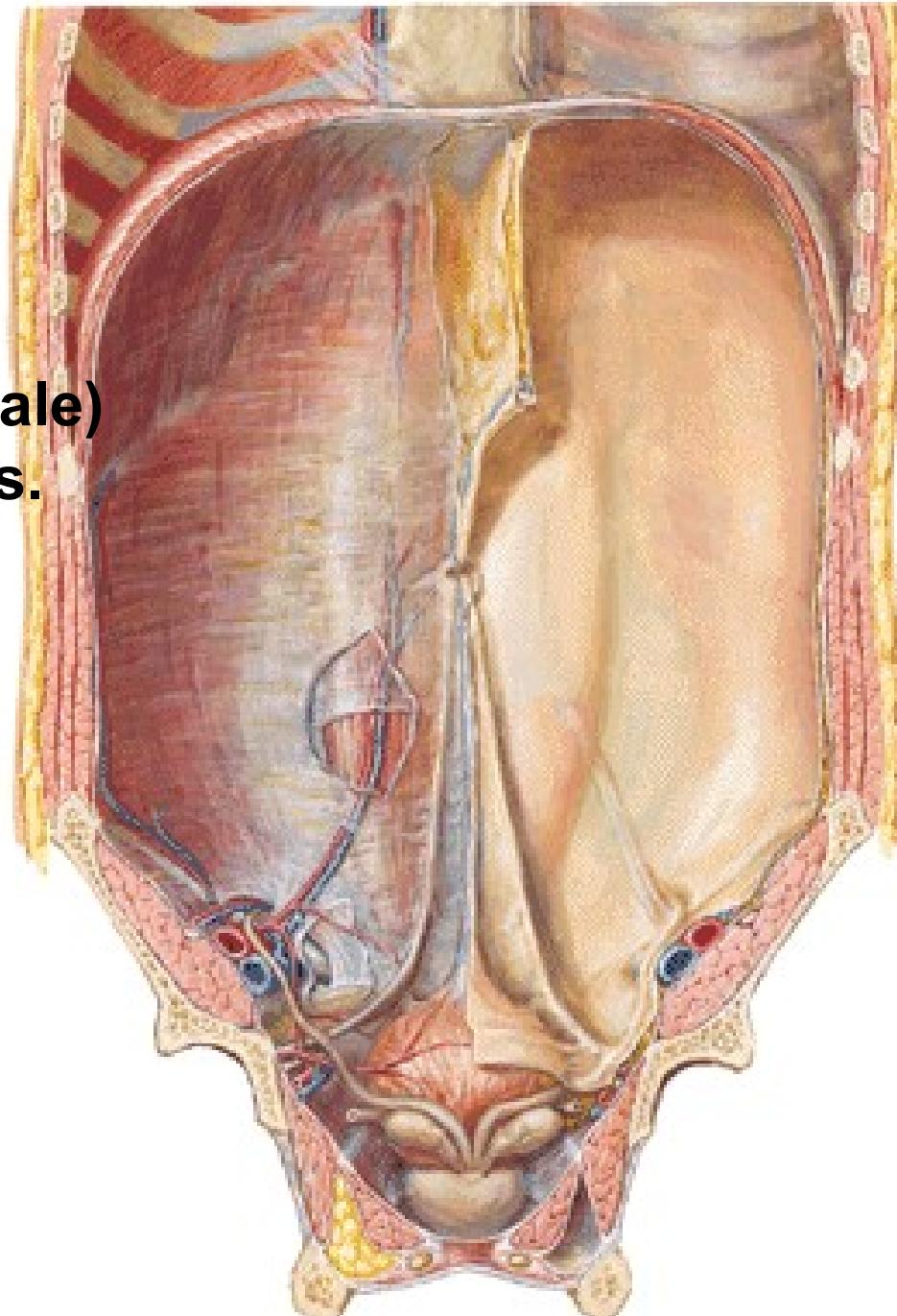
- direct inguinal hernia

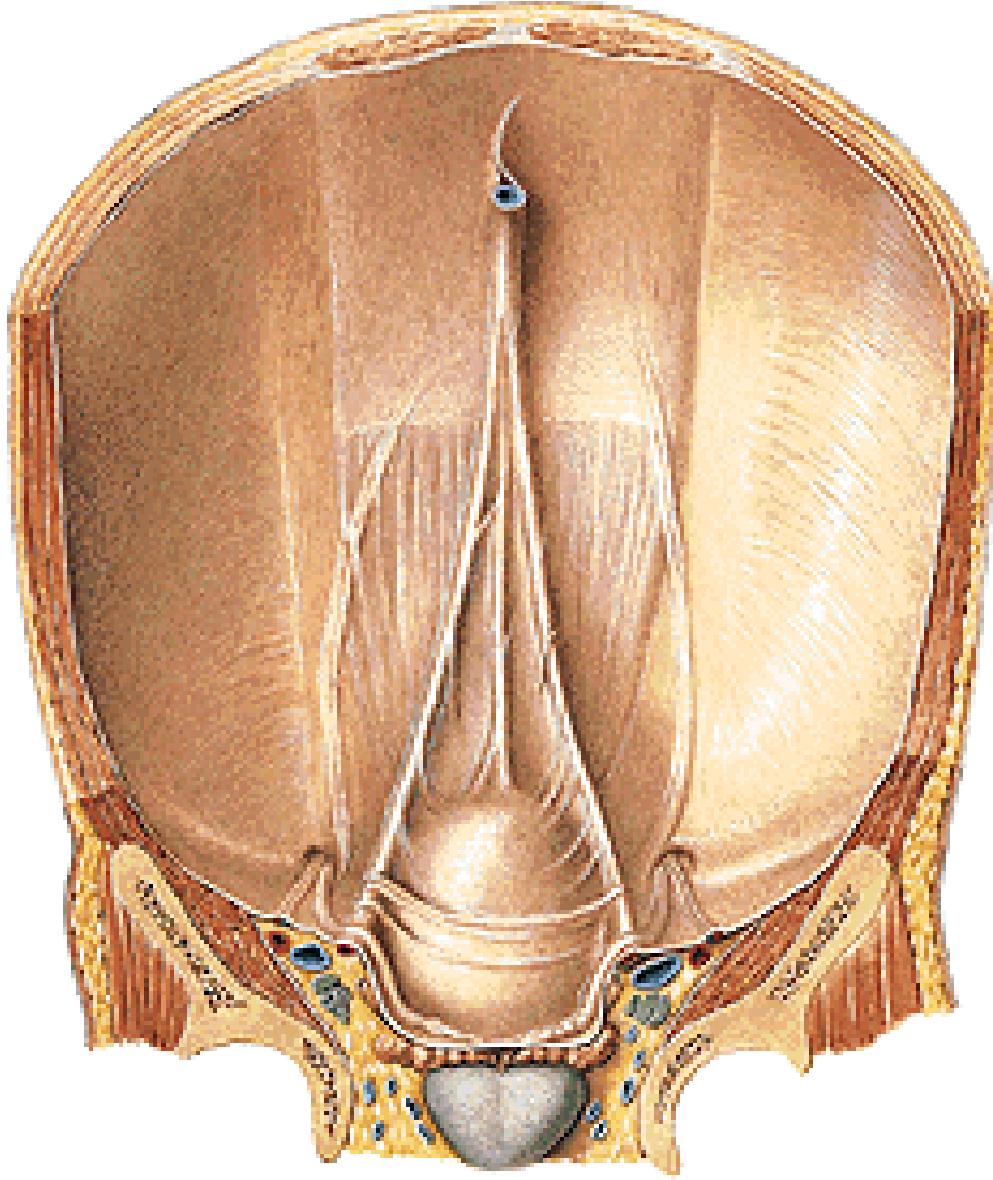
**Plica umbilicalis lateralis**

- vasa epigastrica inf.

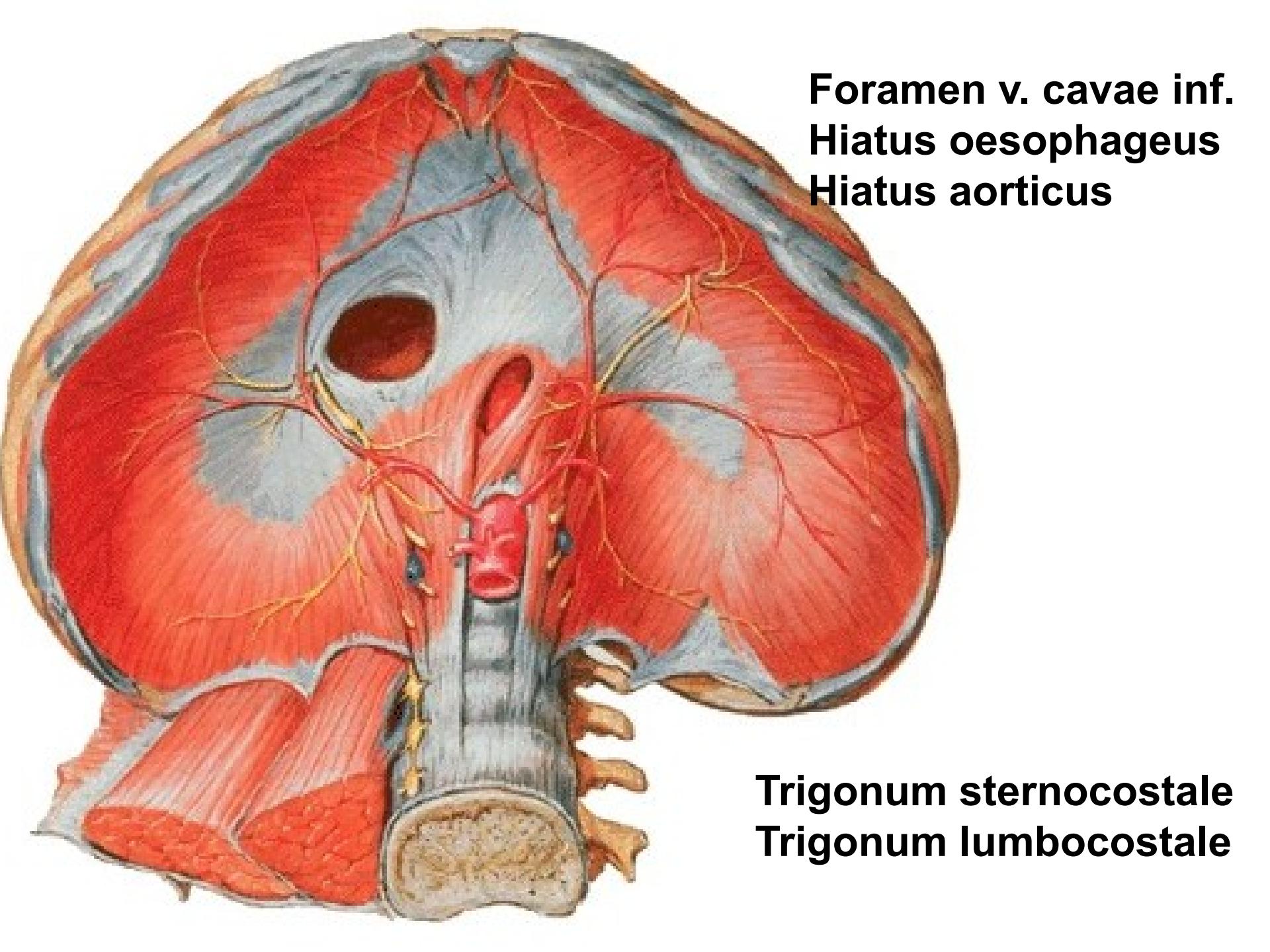
**Fossa inguinalis lateralis**

- indirect inguinal hernia





- A. UMBILICALIS**  
→ *chorda umbilicalis*
- V. UMBILICALIS**  
→ *ligamentum teres  
hepatis*



**Foramen v. cavae inf.**  
**Hiatus oesophageus**  
**Hiatus aorticus**

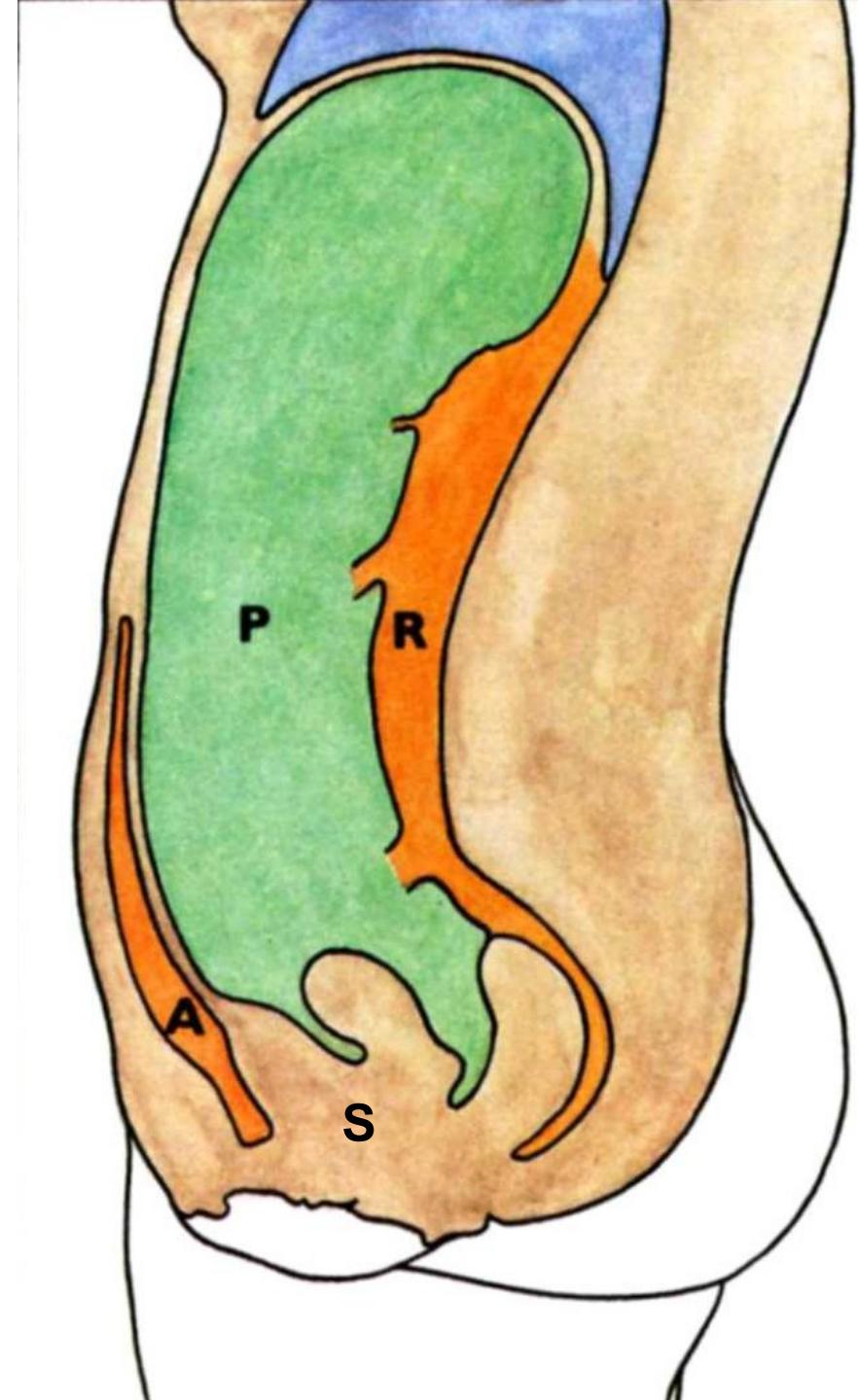
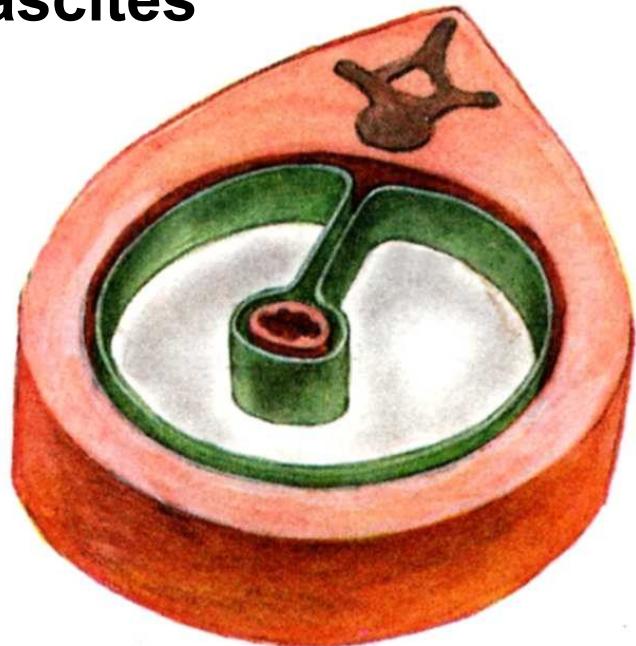
**Trigonum sternocostale**  
**Trigonum lumbocostale**

# **PERITONEAL CAVITY**

# CAVITAS ABDOMINALIS

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

ascites



**Intraparitoneal organs:**

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

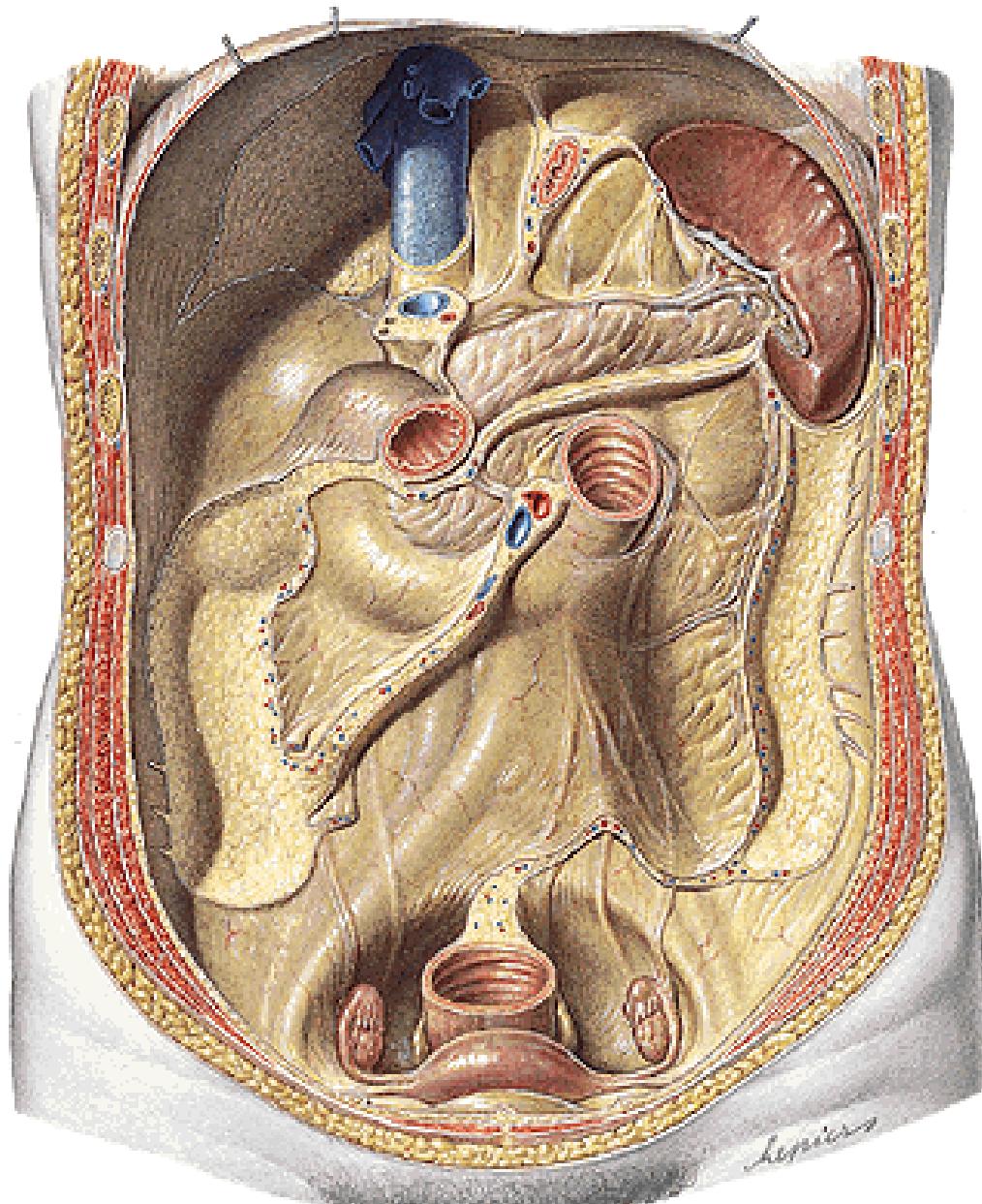
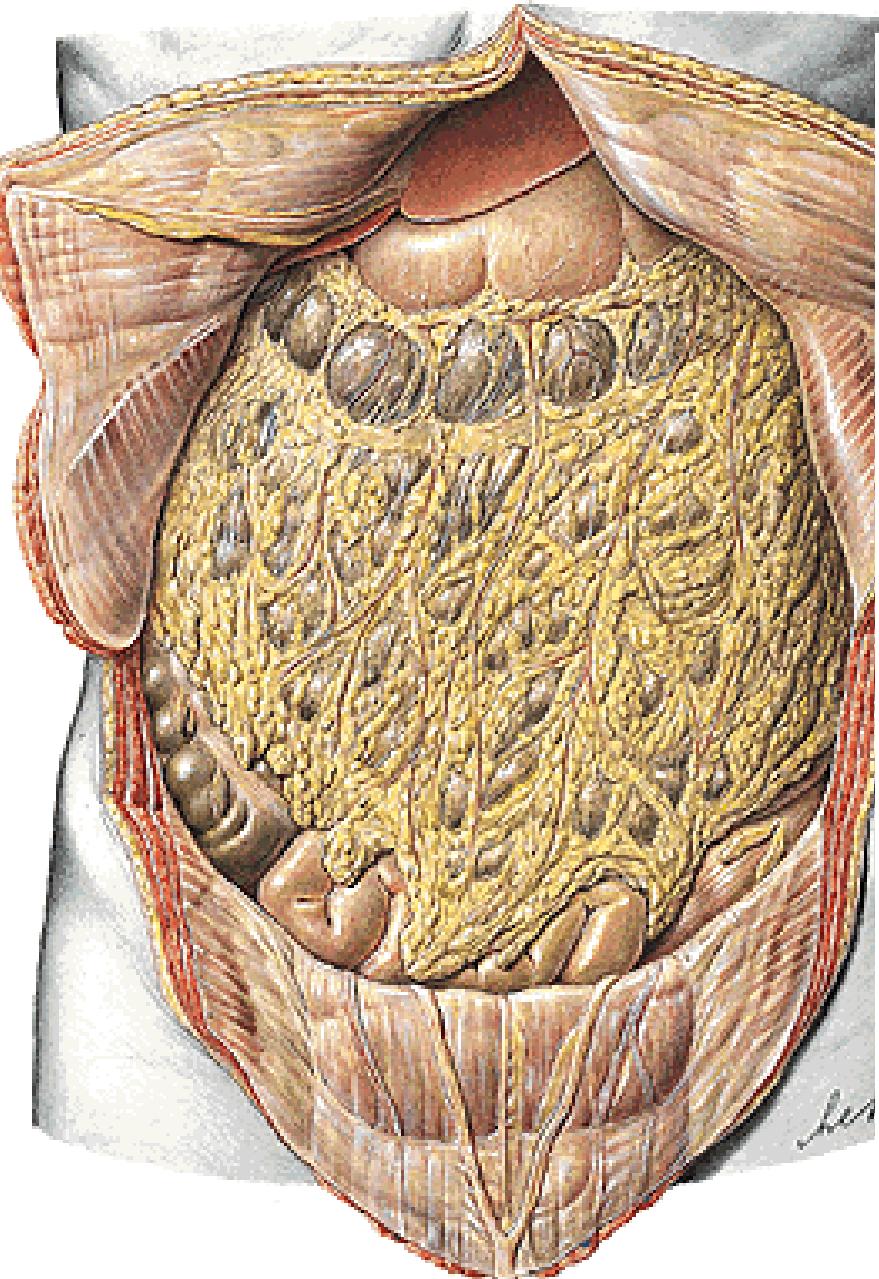
**Secondarily retroperitoneal organs:**

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

**Primarily retroperitoneal organs:**

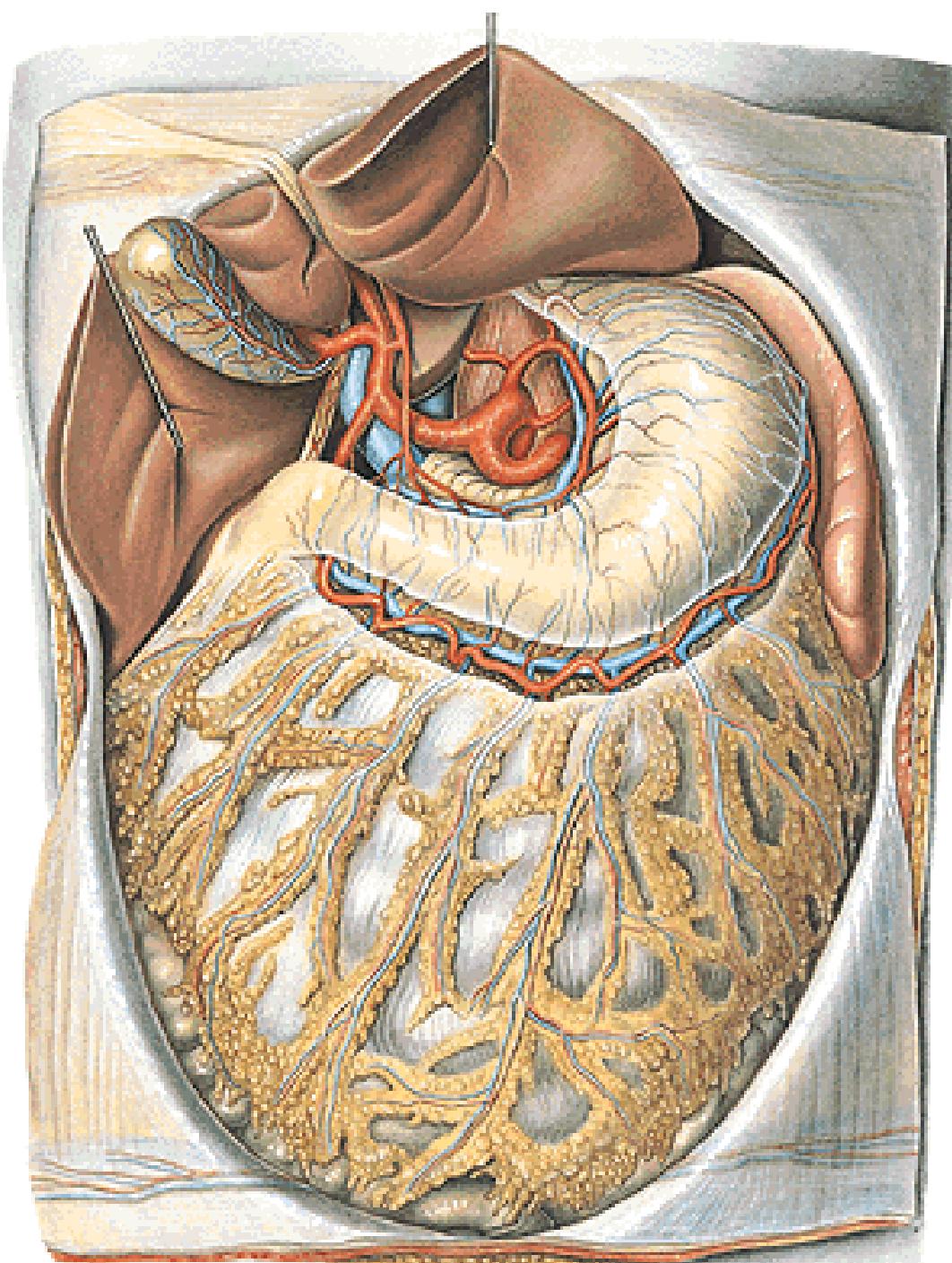
**Kidneys, suprarenal glands, aorta, vena cava inf.**

# Cavitas peritonealis - pars supramesocolica, inframesocolica



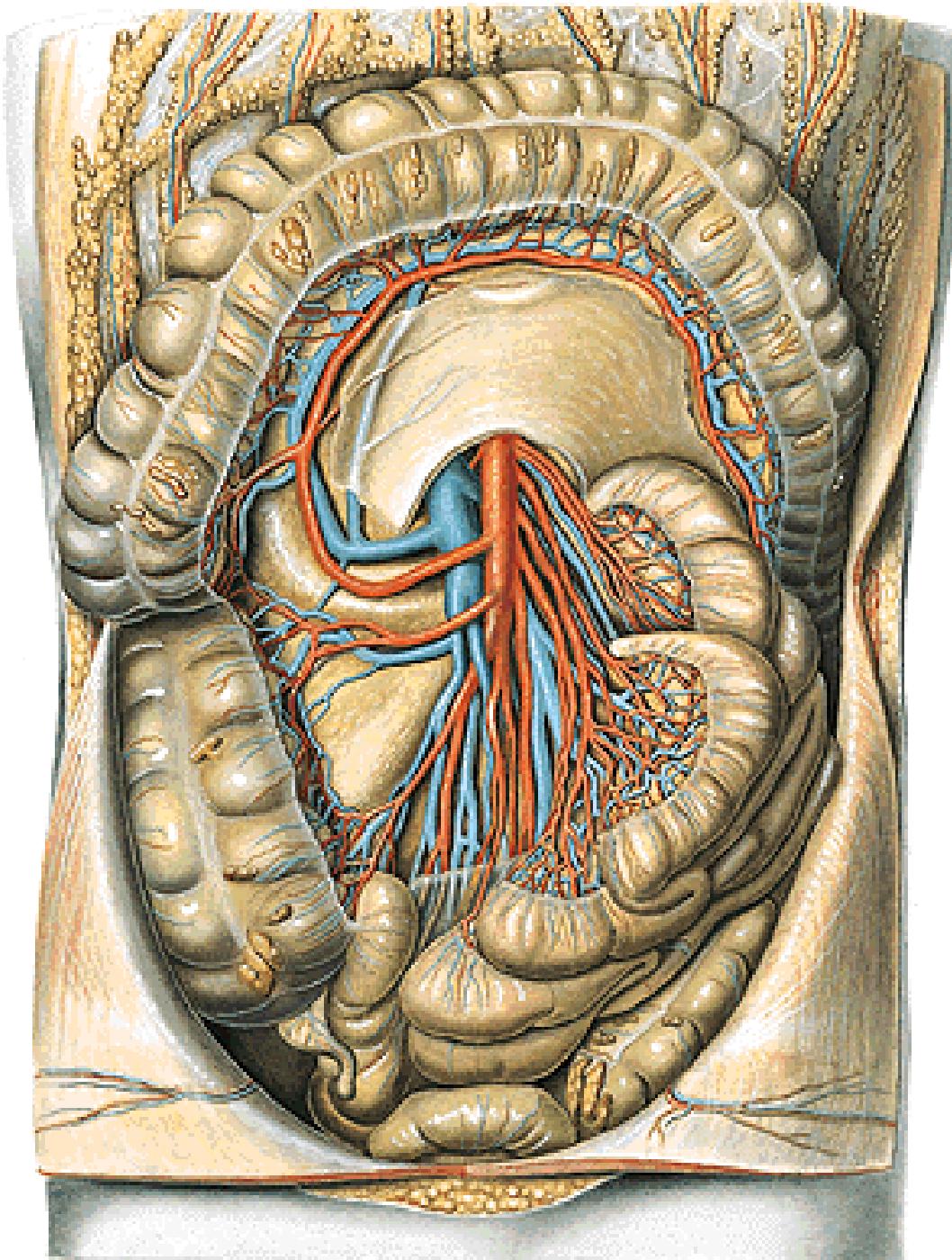
**Pars supramesocolica**

**Truncus coeliacus**



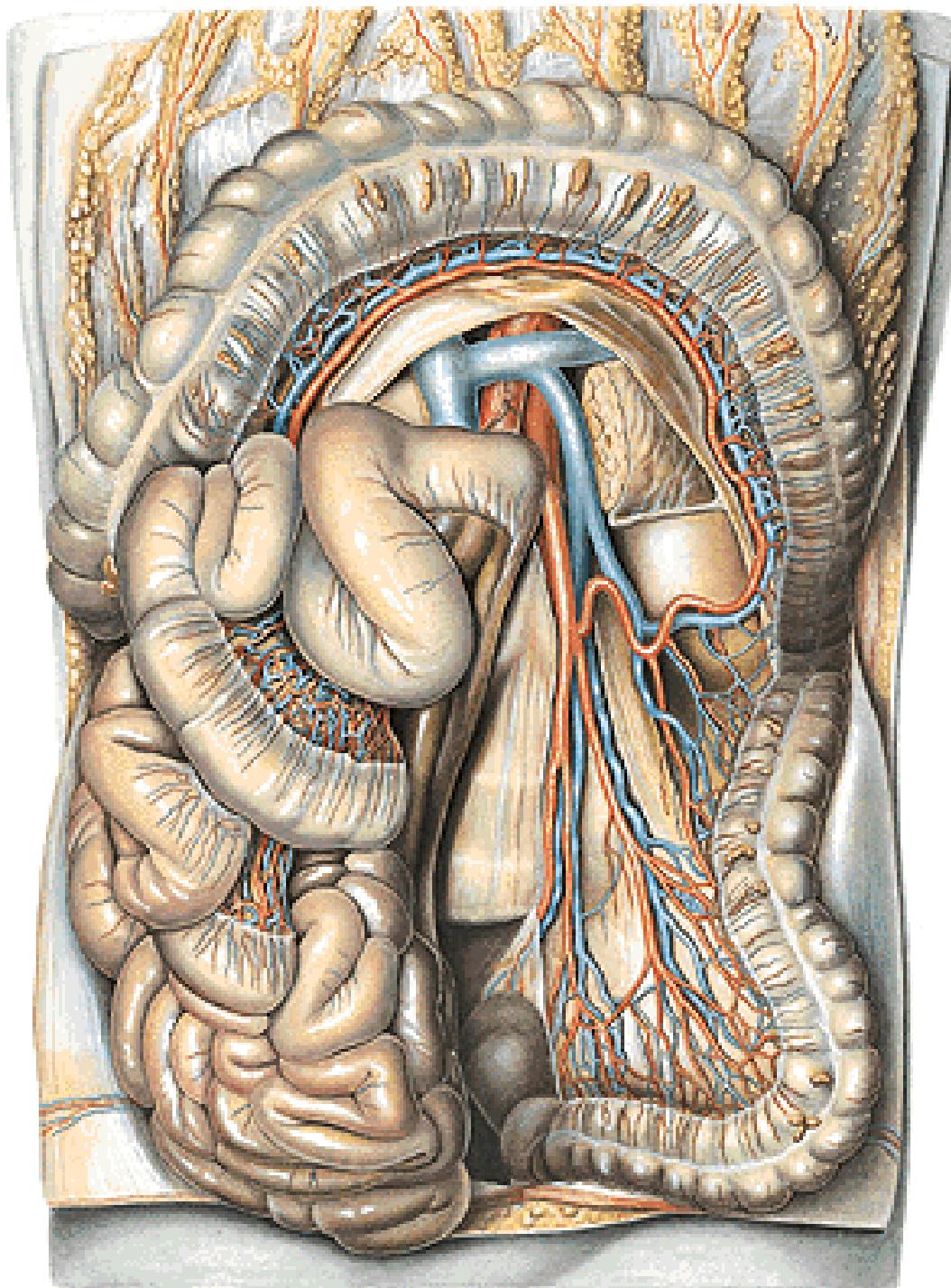
# Right infra(meso)colic compartment

## A. mesenterica superior

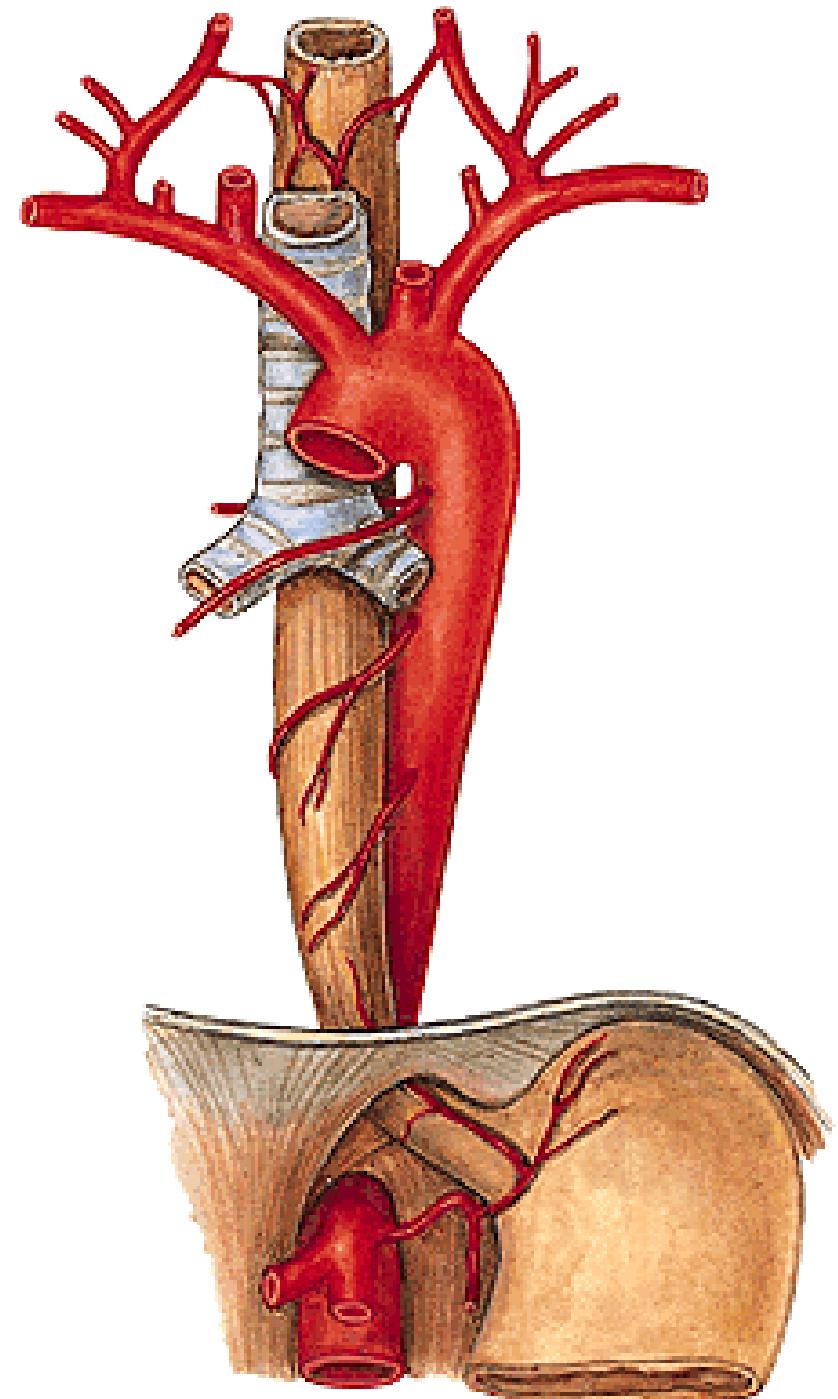


# **Left infra(meso)colic compartment**

## **A. mesenterica inferior**



# PARS ABDOMINALIS OF THE OESOPHAGUS



Omentum minus - lig. hepatogastricum

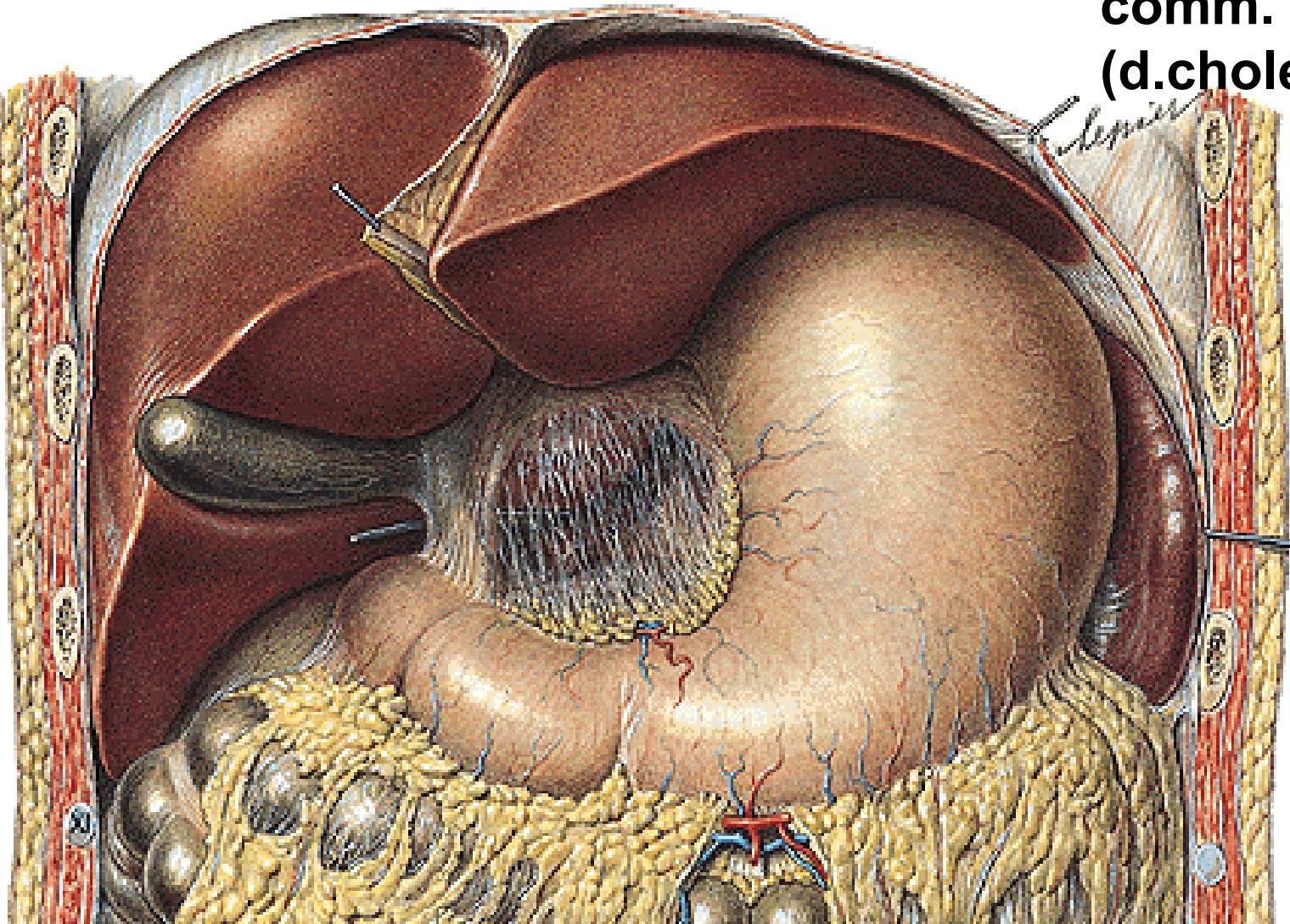
- lig. hepatoduodenale - a. hepatica propria

- v. portae

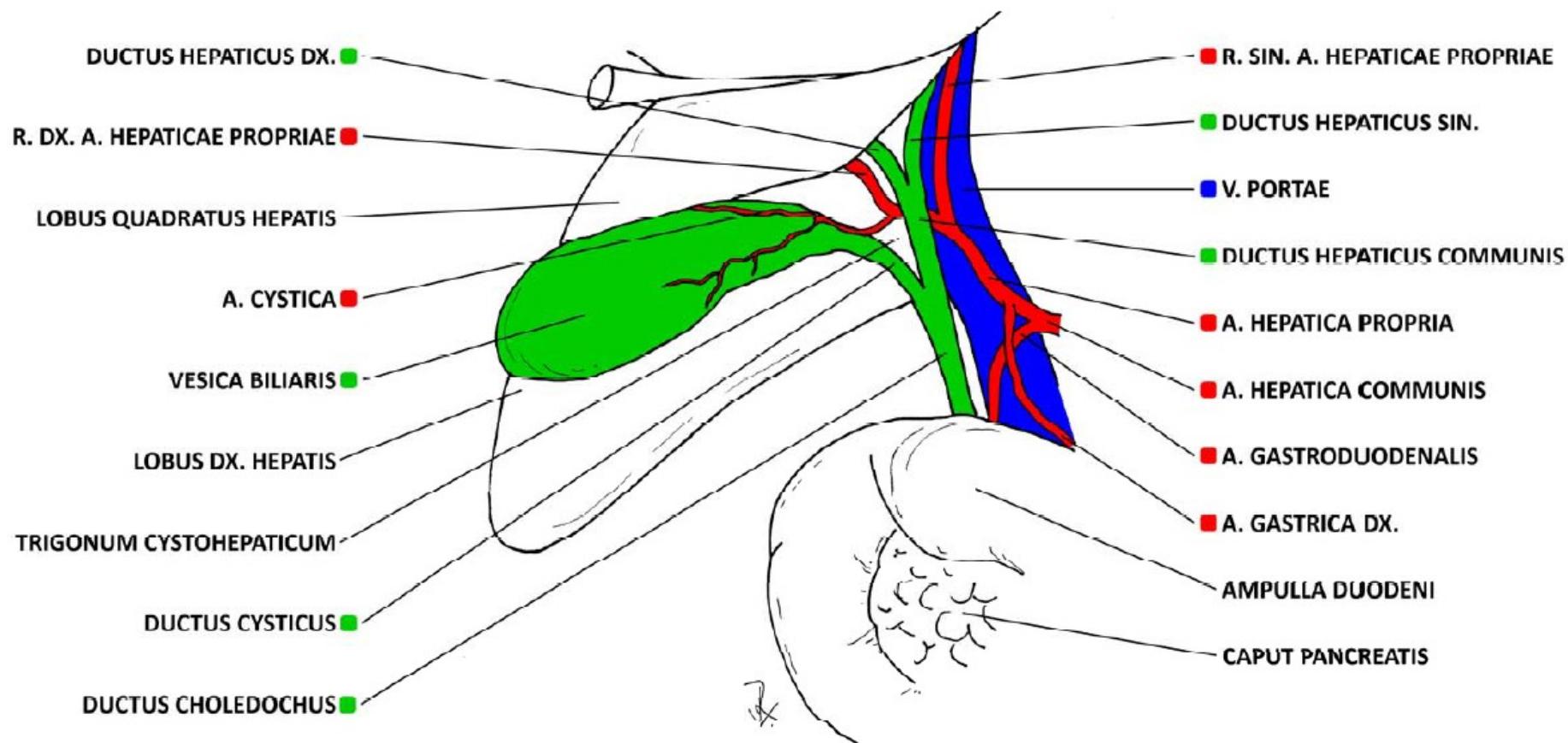
- ductus hepaticus

comm.

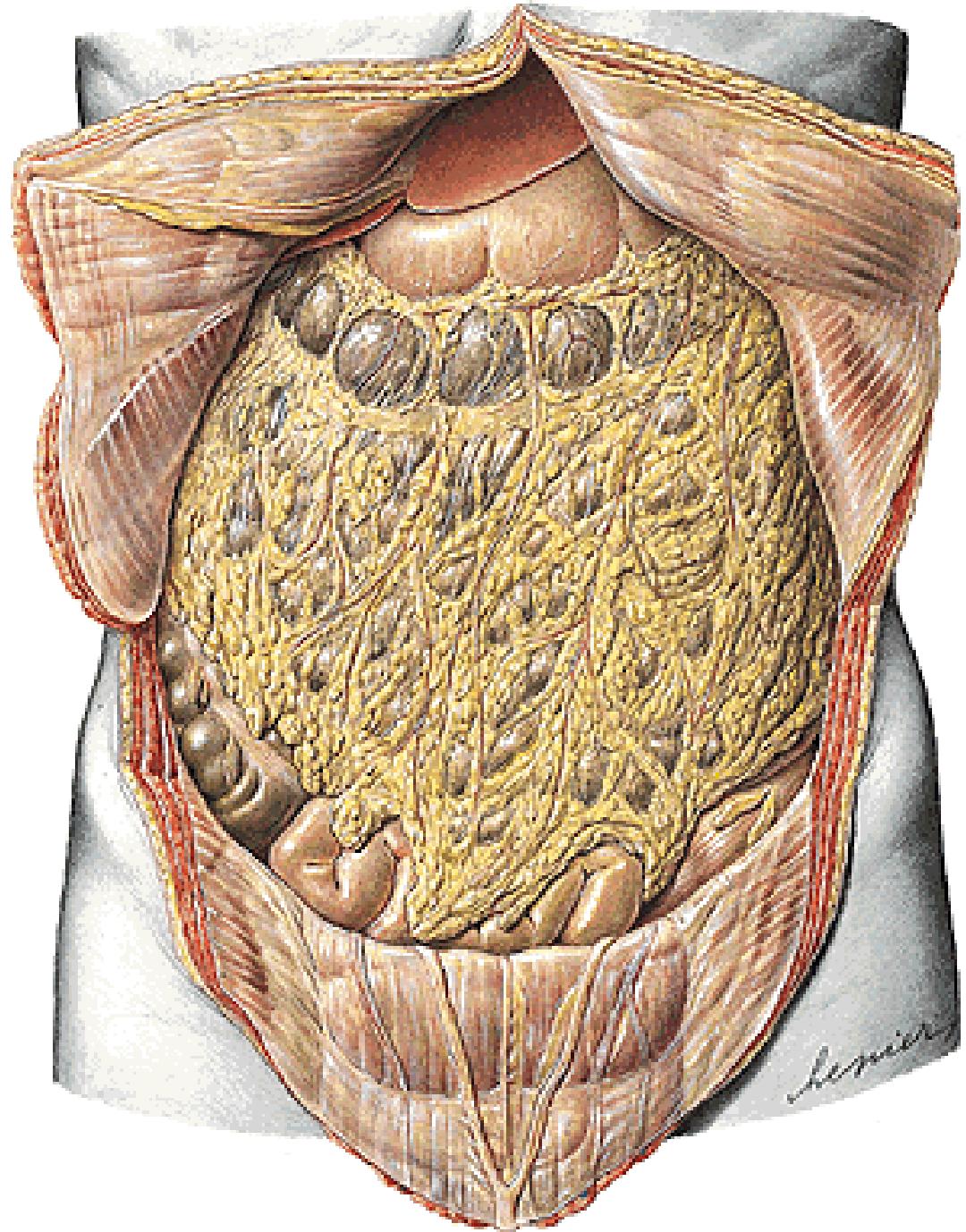
(d.choledochus)



# LIGAMENTUM HEPATODUODENALE

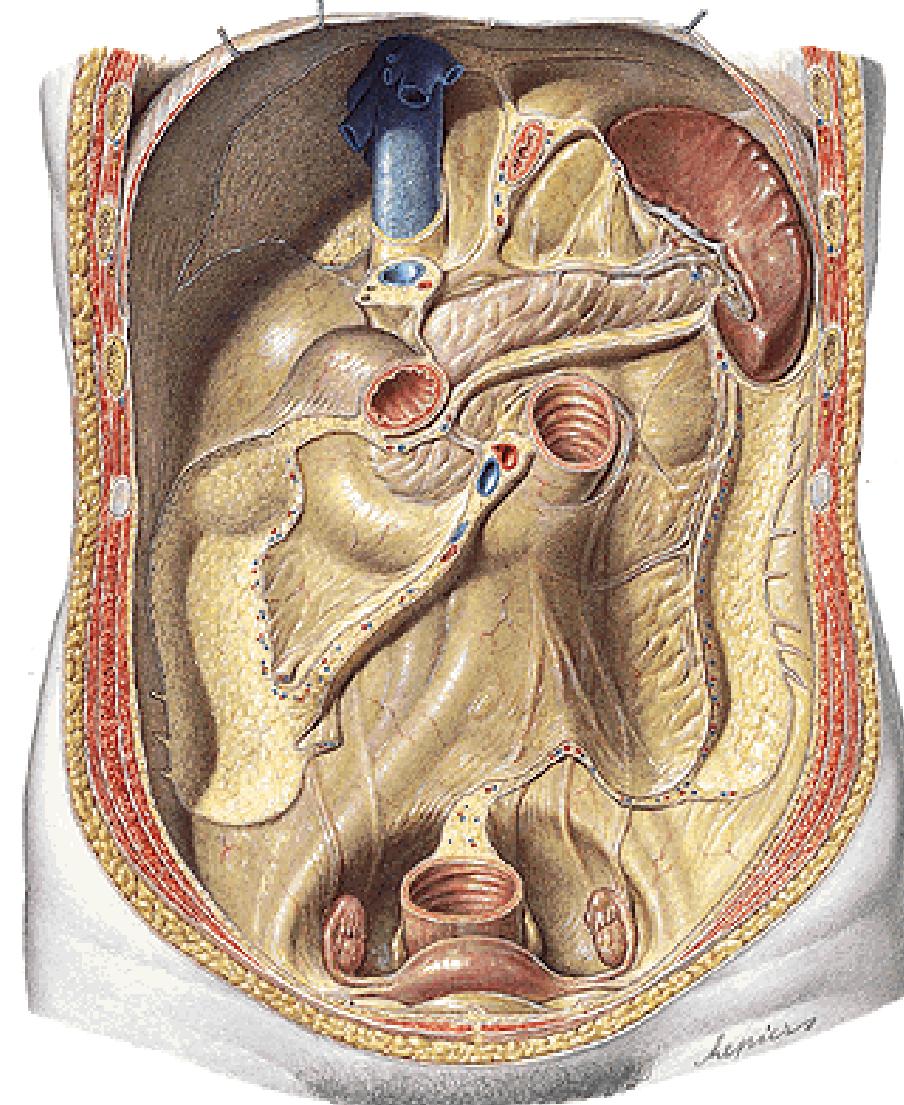


# Omentum majus - lig. gastrocolicum

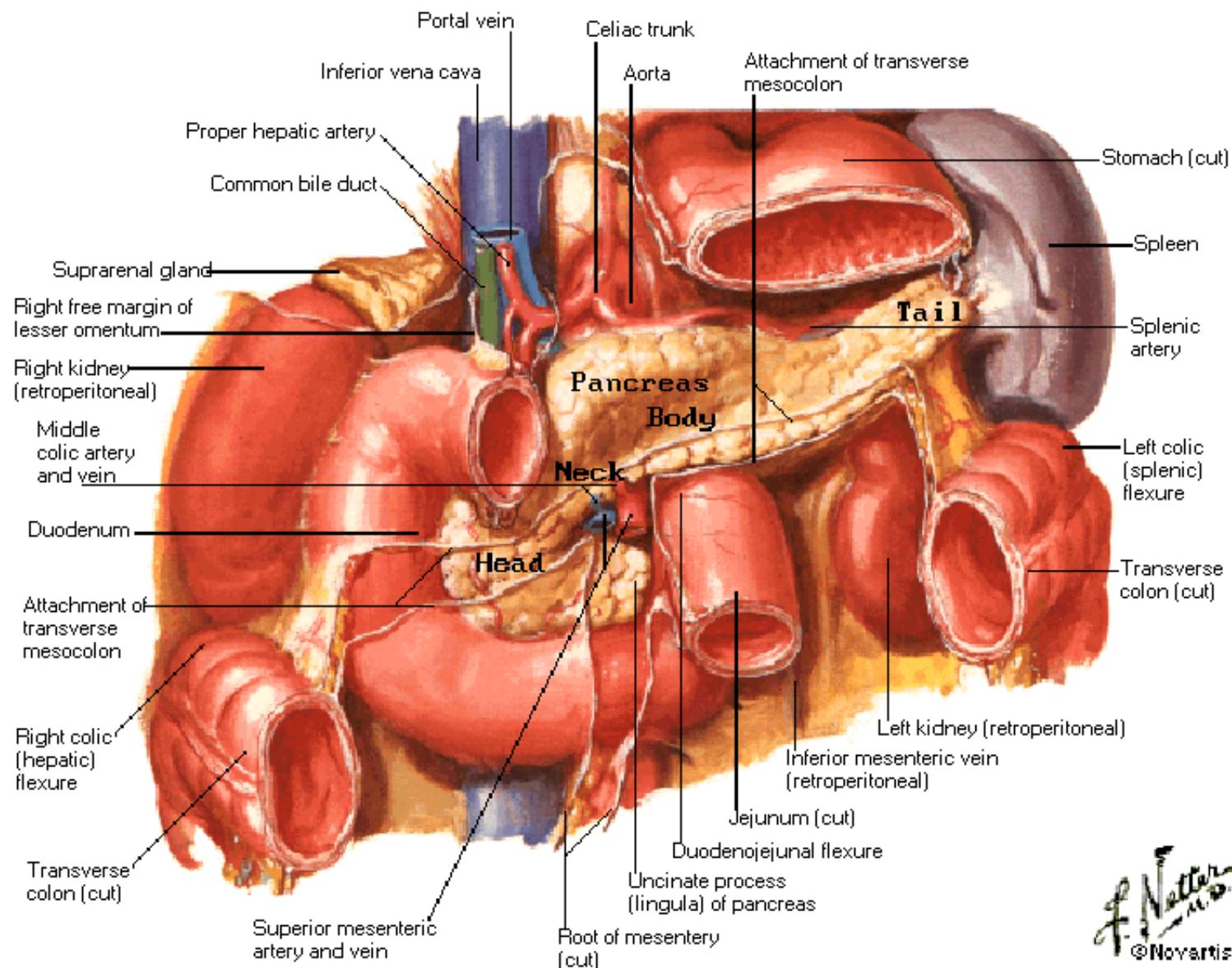




**Lig. gastrosplenicum, phrenicosplenicum, splenorenale**  
**Mesenterium – radix mesenterii**  
**Mesocolon transversum, mesoappendix, mesocolon**  
**sigmoideum, lig. phrenicocolicum**



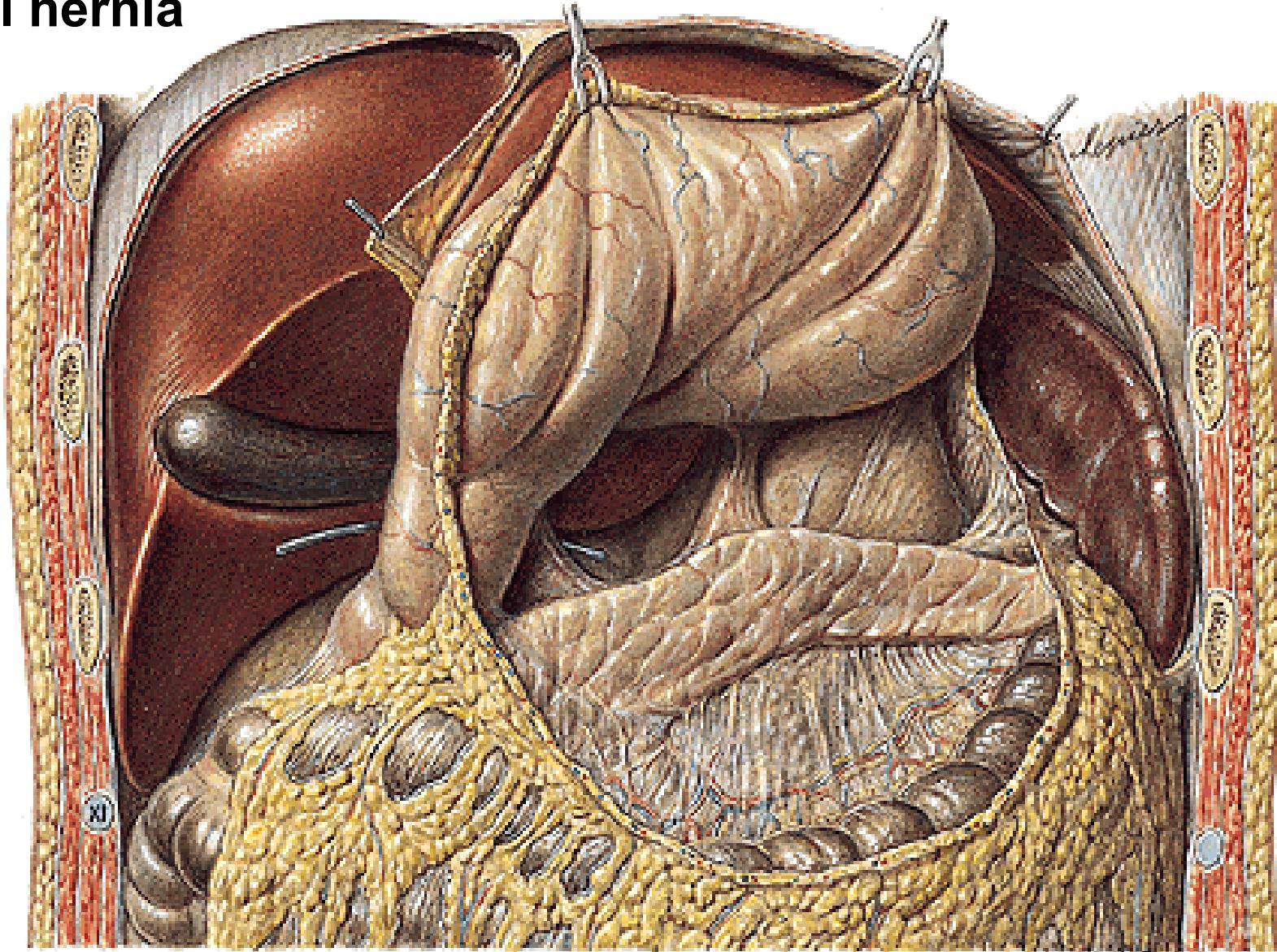
# Pancreas in Situ



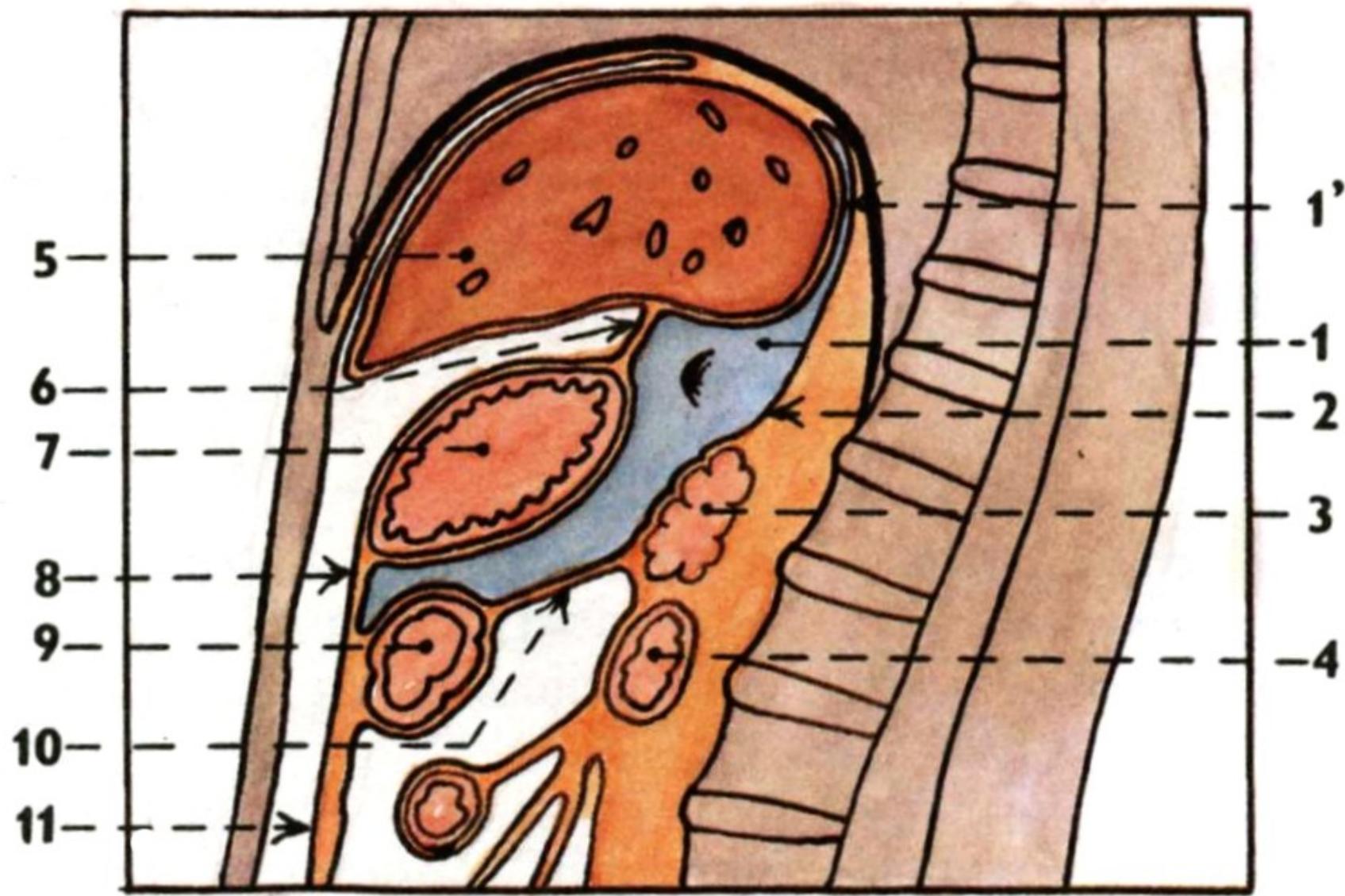
# **RECESSUS PERITONEI**

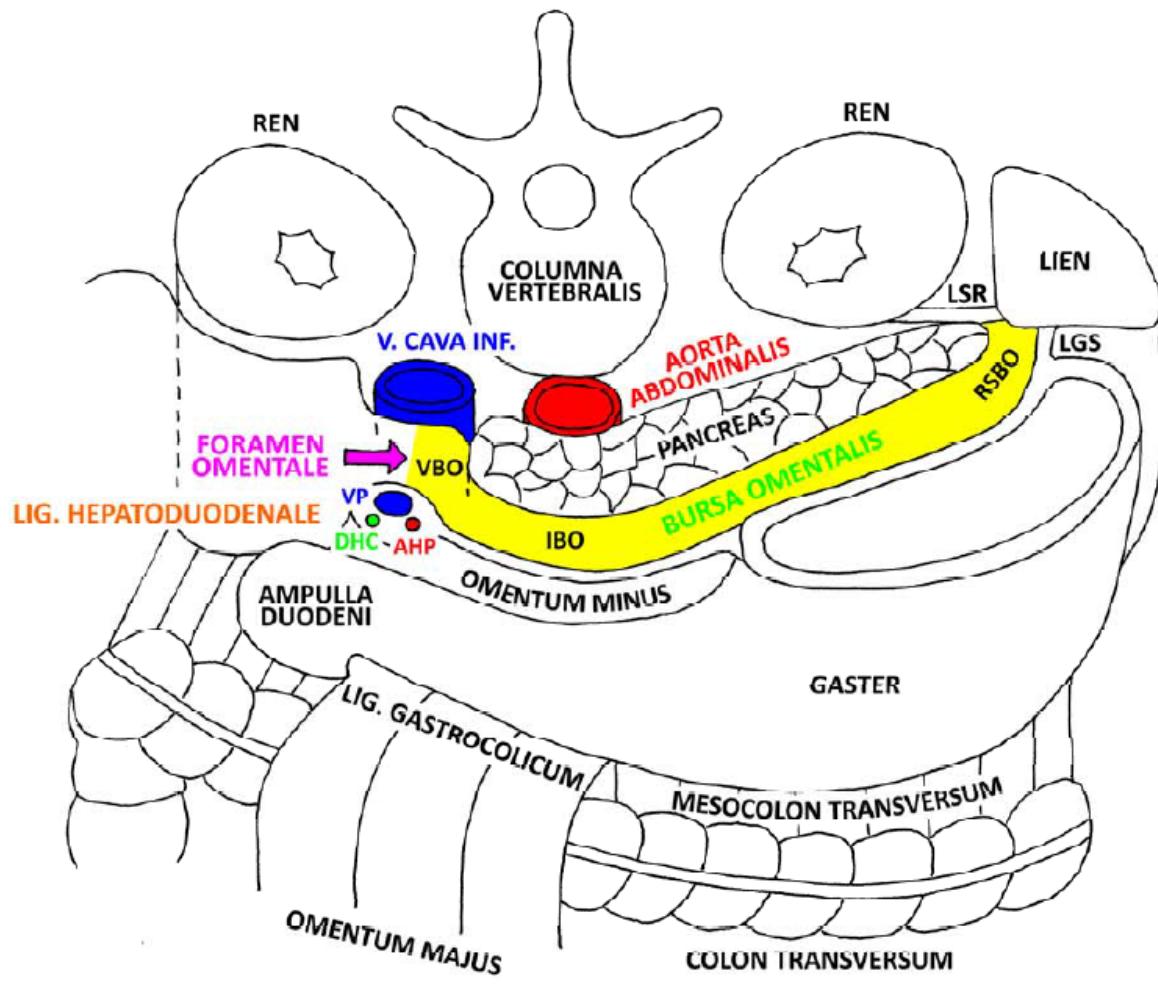
# Bursa omentalis

## Internal hernia



# Bursa omentalis



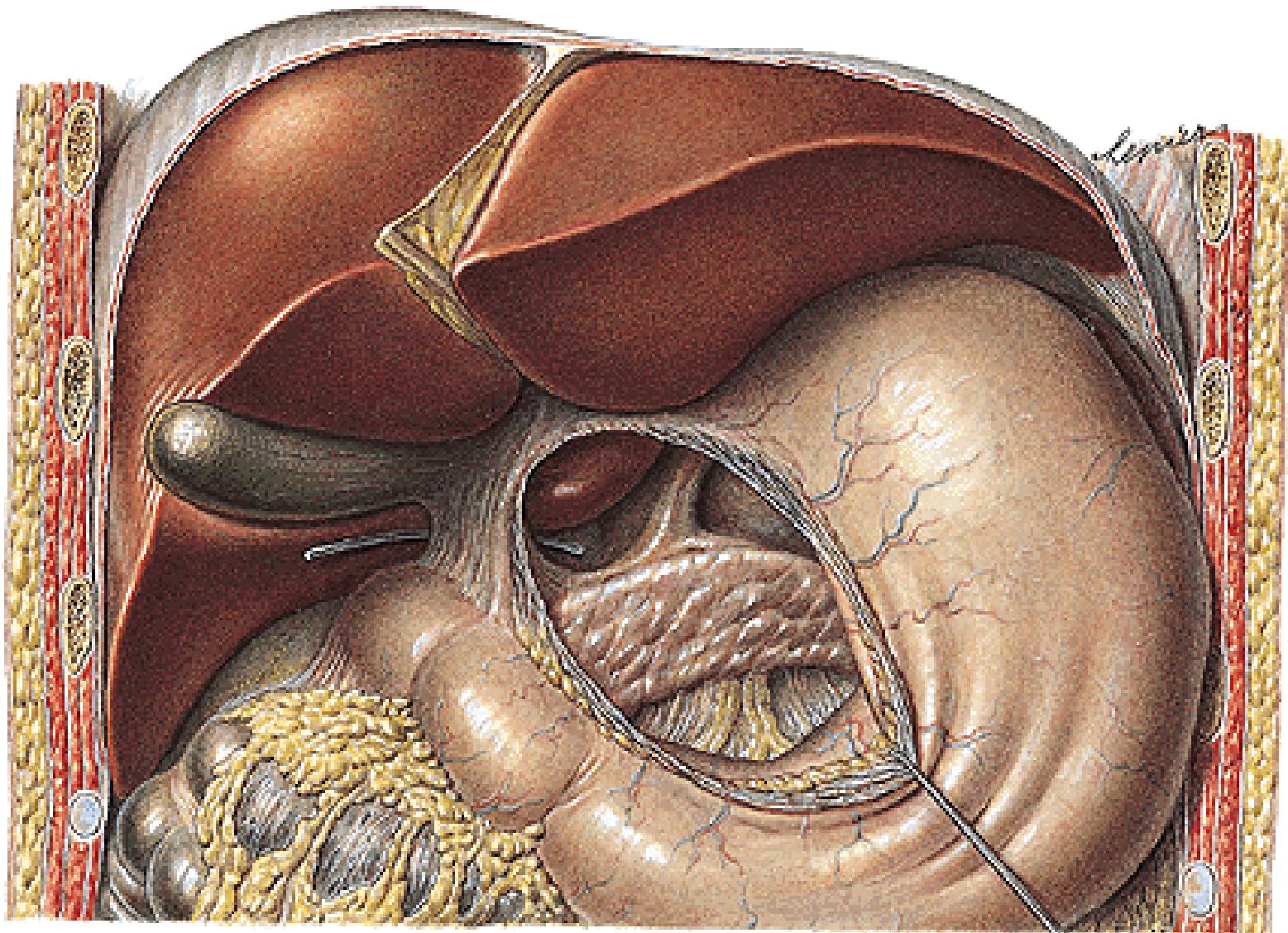


**LSR** - LIG. SPLENORENALE  
**LGS** - LIG. GASTROSPLENICUM  
**RSBO** - RECESSUS SPLENICUS BURSAE OMENTALIS  
**IBO** - ISTHMUS BURSAE OMENTALIS  
**VBO** - VESTIBULUM BURSAE OMENTALIS

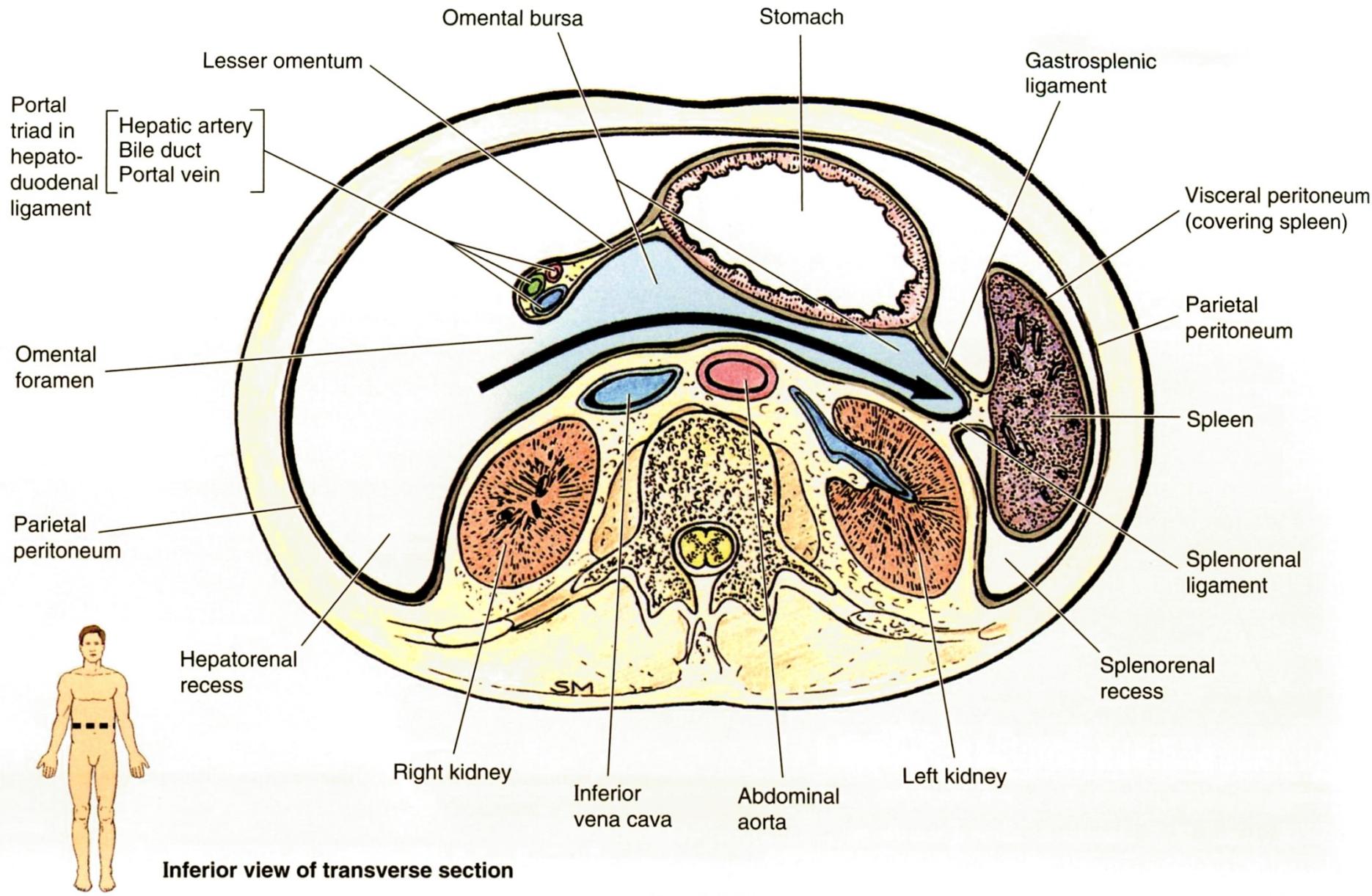
**VP** - V. PORTAE  
**DHC** - DUCTUS HEPATICUS COMMUNIS  
**AHP** - A. HEPATICA PROPRIA

# Foramen omentale/epiploicum (Winslow)

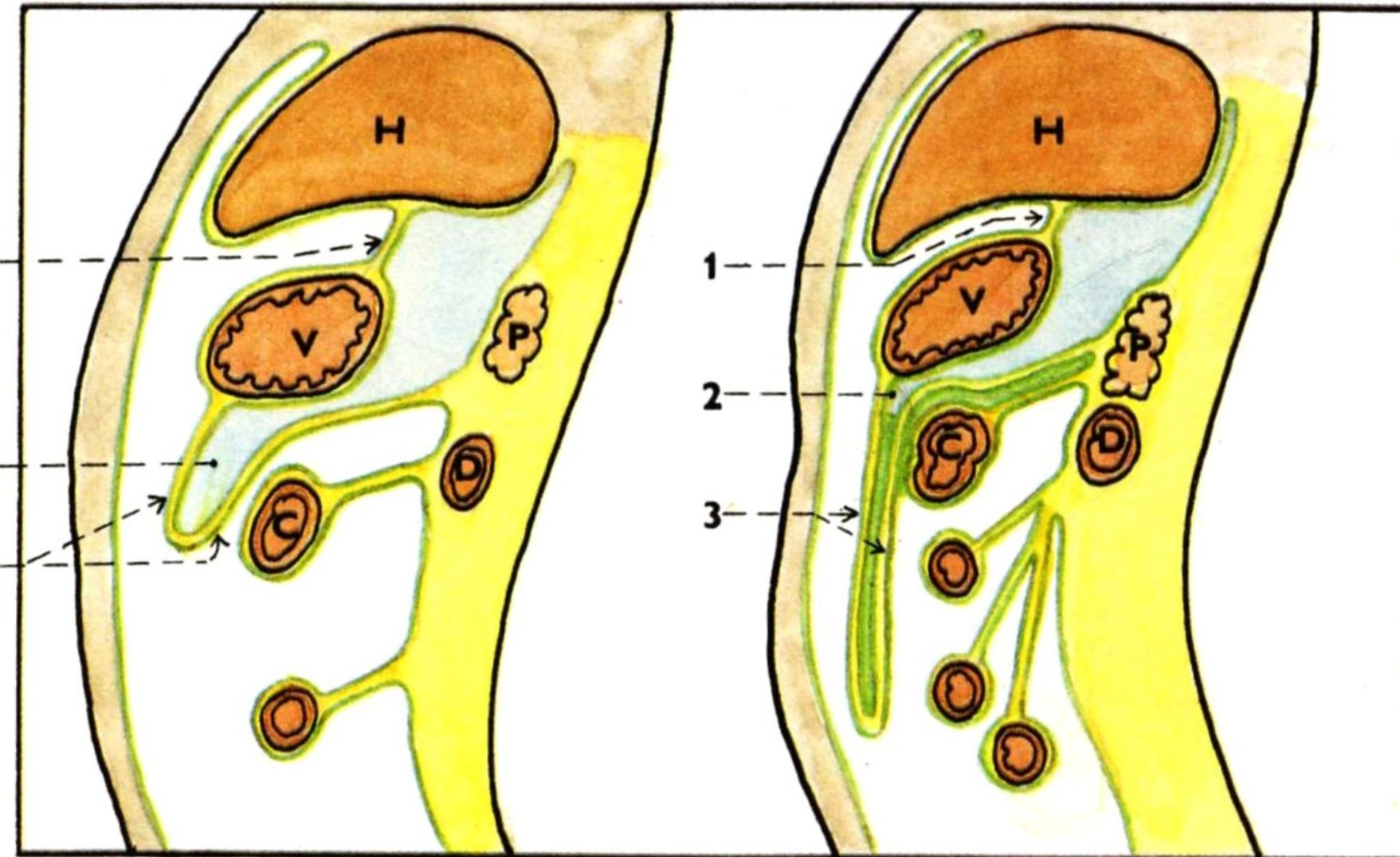
Recessus sup., splenicus, inf.



# Abdominal Wall and Viscera

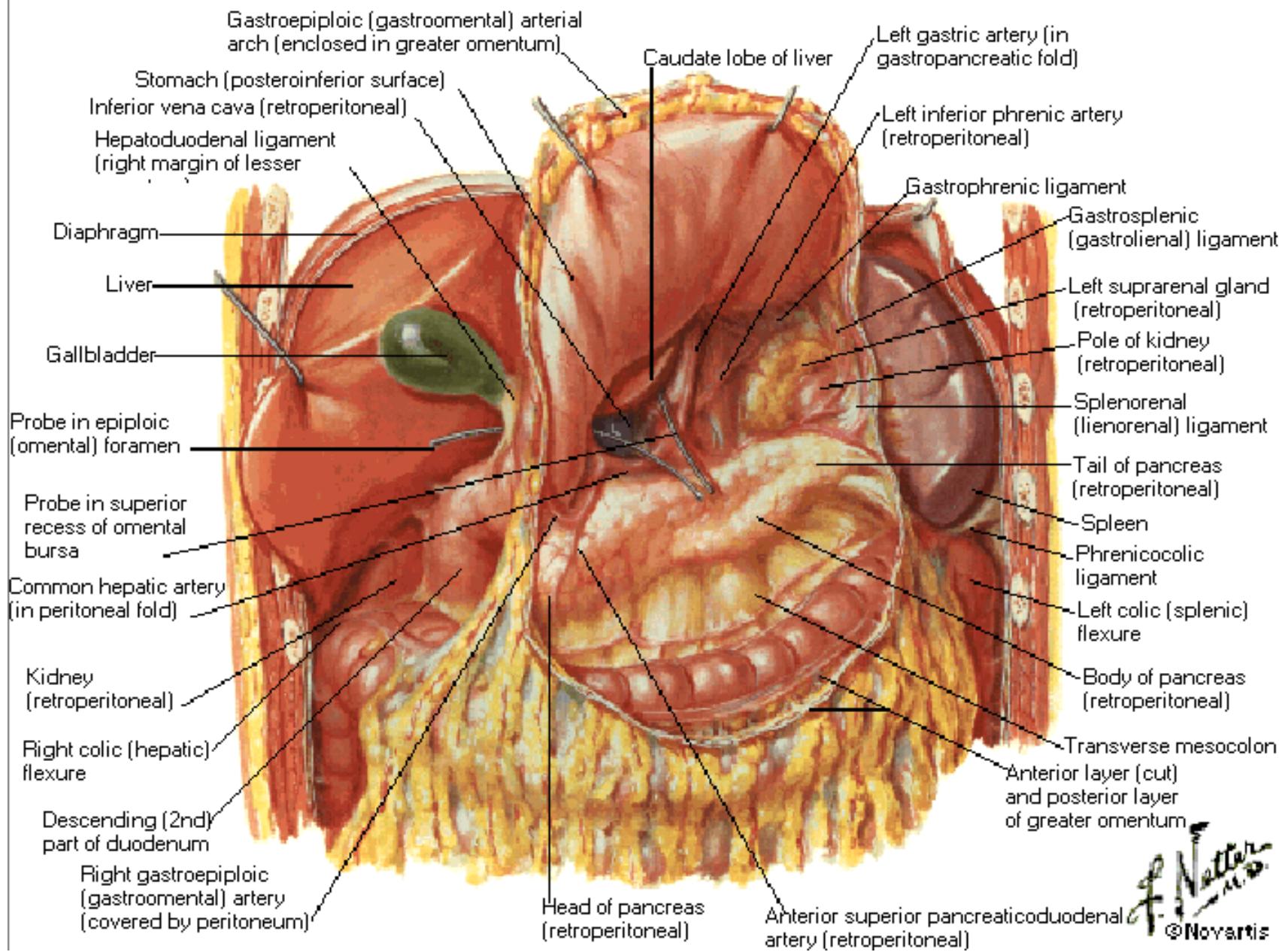


## Recessus inferior bursae omentalis (2)



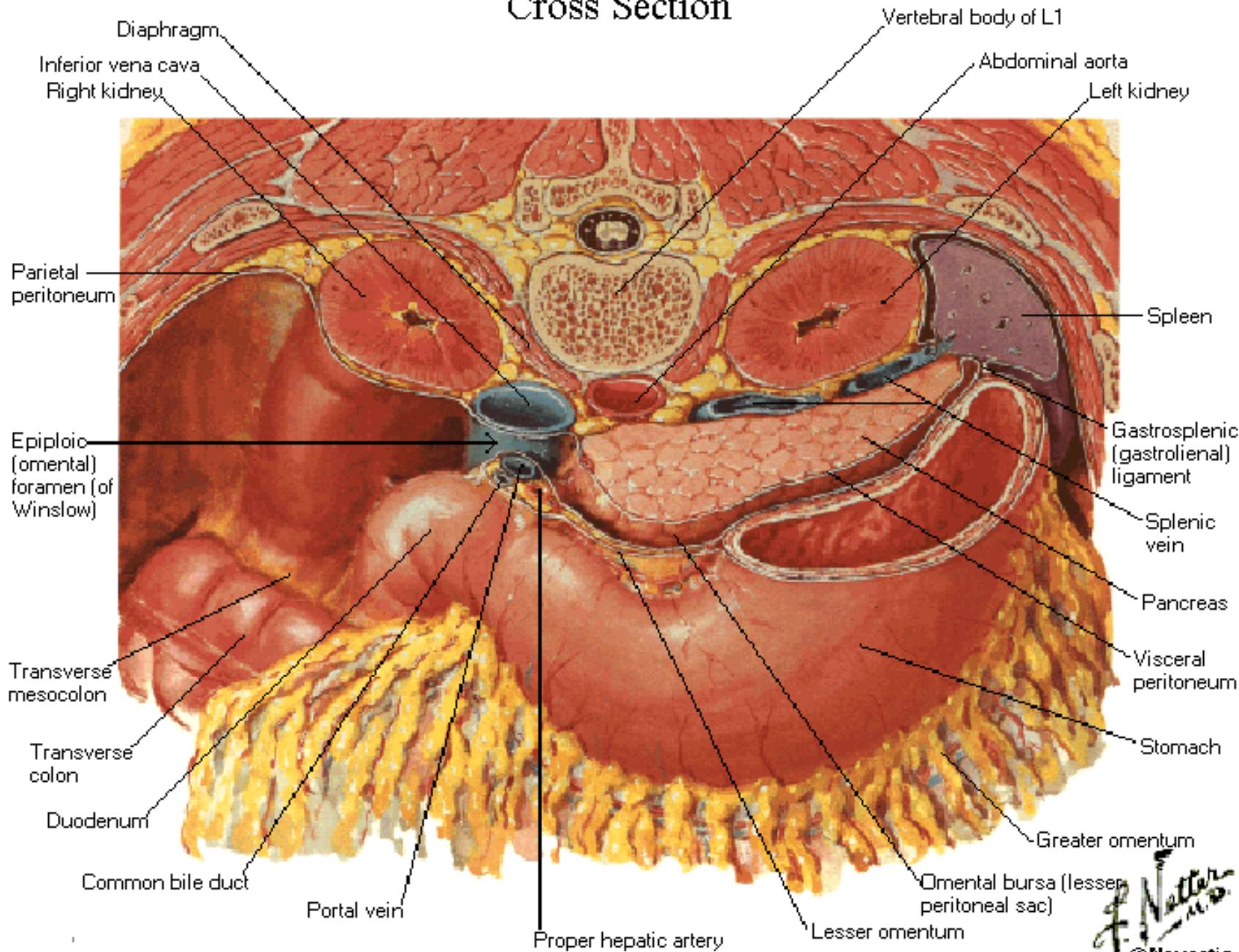
# Omental Bursa

## Stomach Reflected

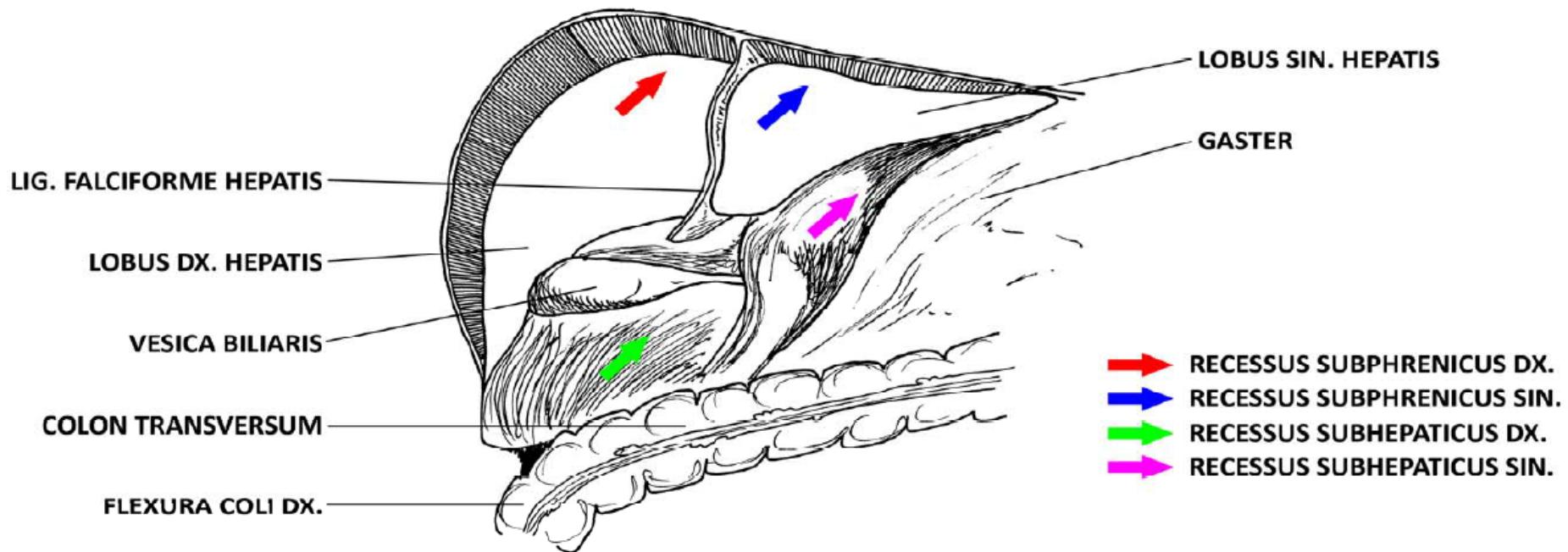


# Omental Bursa

## Cross Section



# RECESSUS PERITONEALES

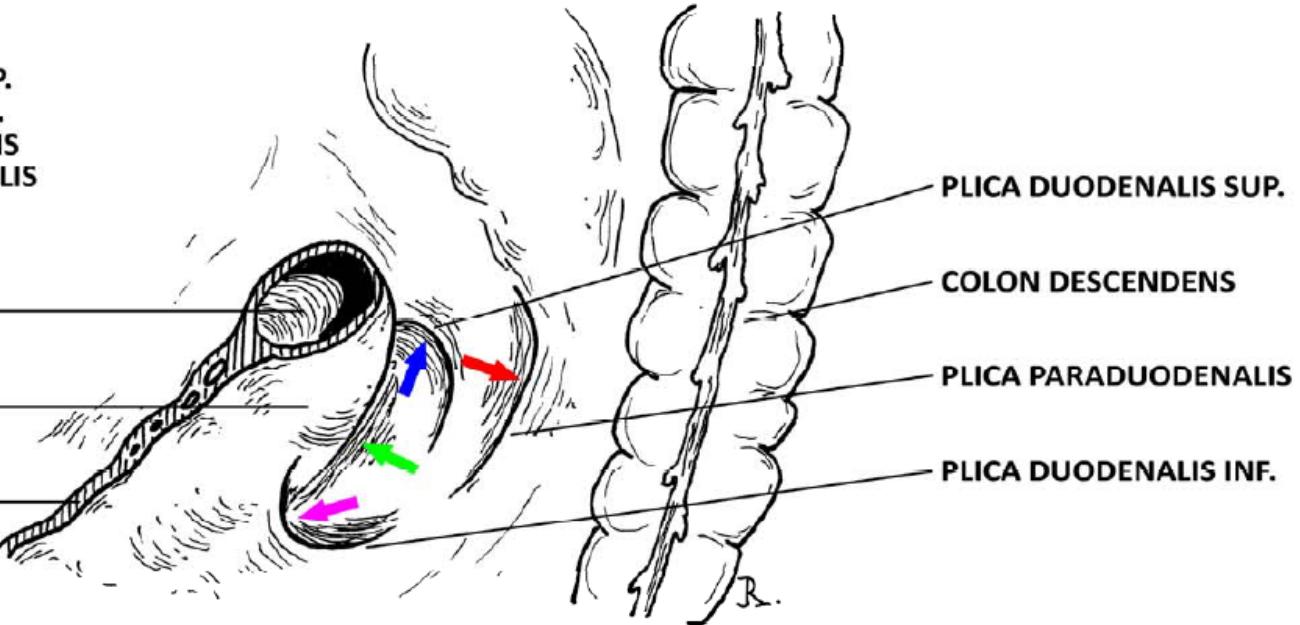


- RECESSUS DUODENALIS SUP.
- ↑ RECESSUS DUODENALIS INF.
- RECESSUS PARADUODENALIS
- RECESSUS RETRODUODENALIS

FLEXURA DUODENOJEJUNALIS

PARS ASCENDENS DUODENI

RADIX MESENTERII



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

CAECUM

PLICA CAECALIS

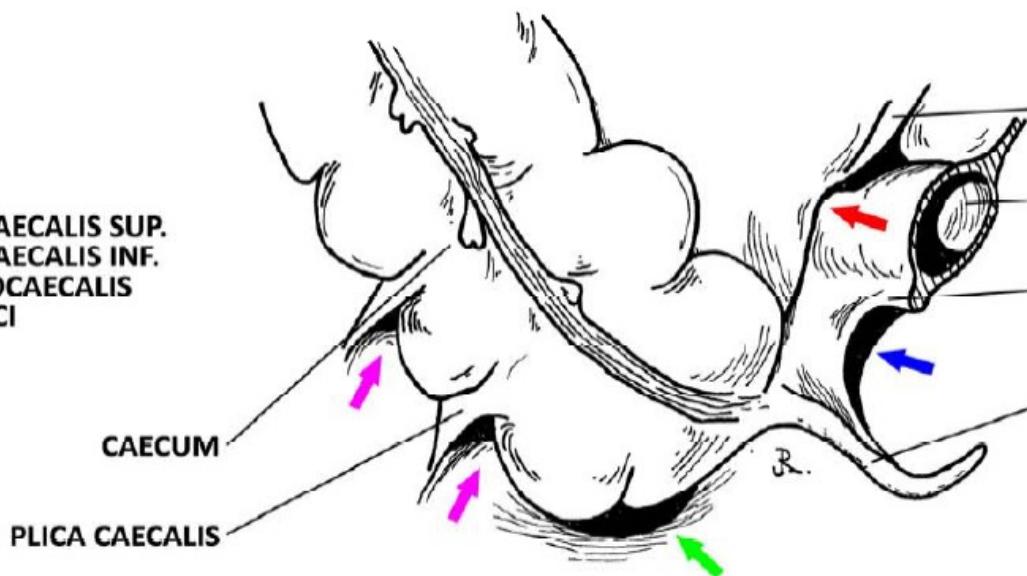
PLICA CAECALIS VASCULARIS

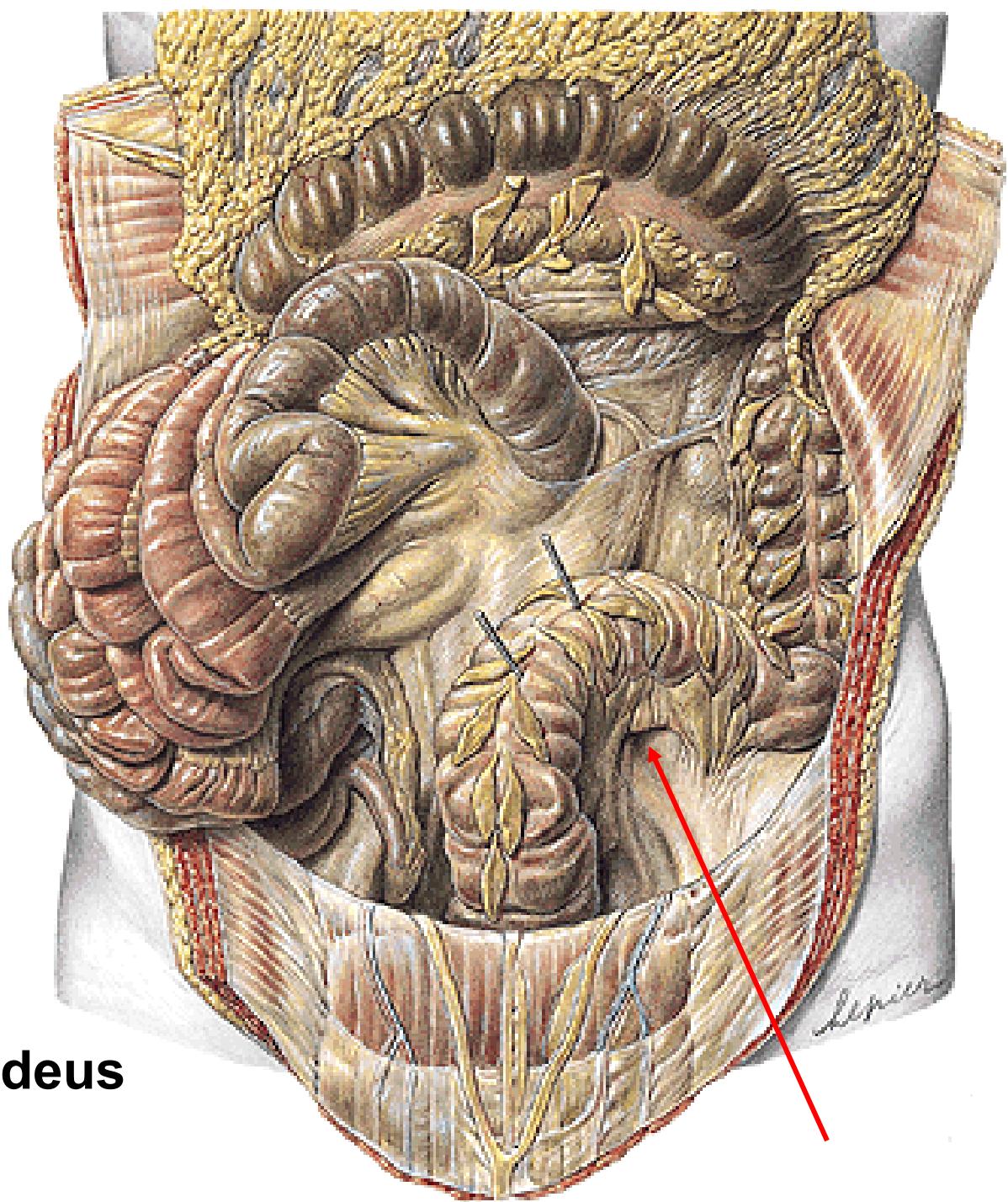
ILEUM

PLICA ILEOCAECALIS

APPENDIX VERMIFORMIS

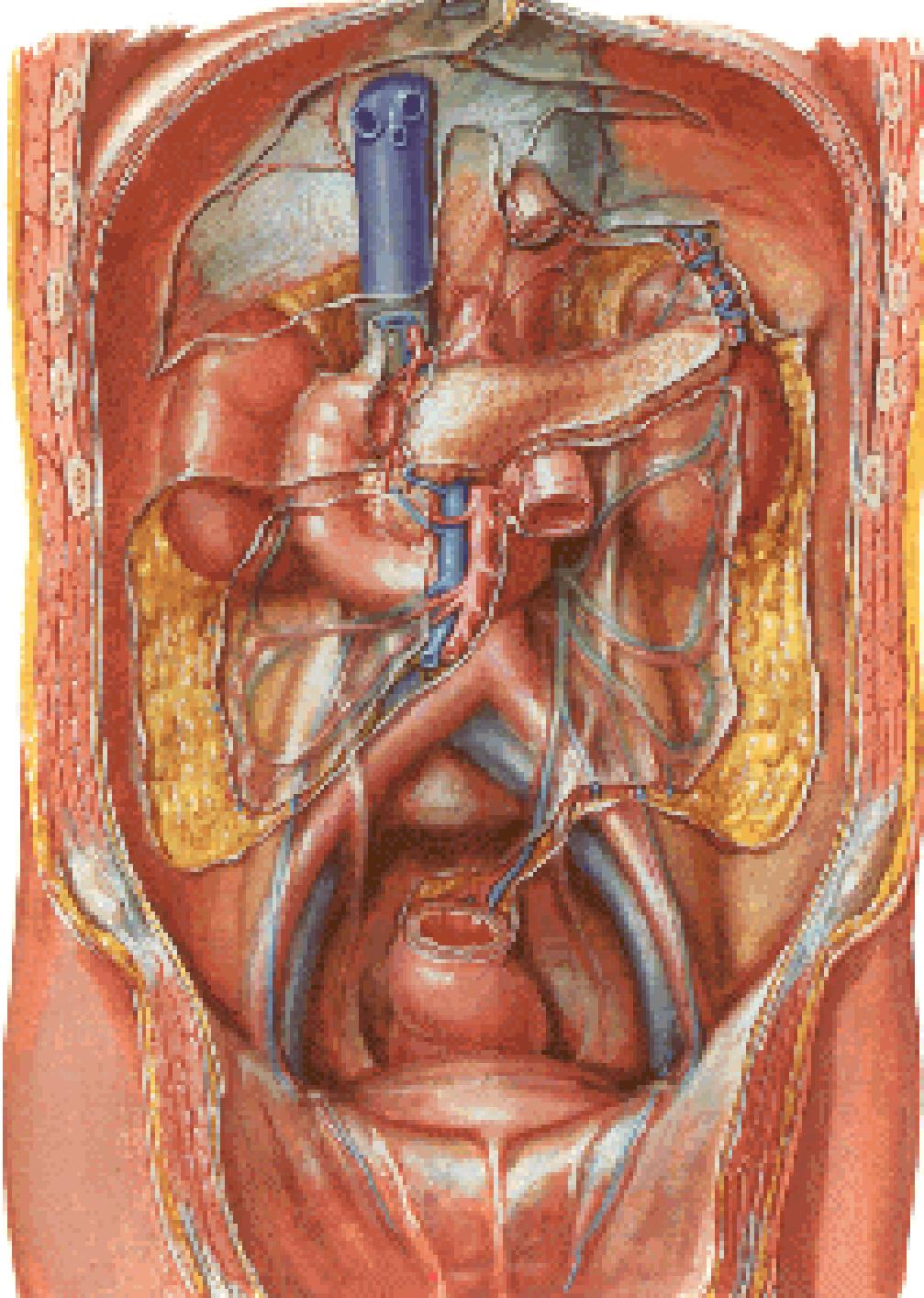
PLICA CAECALIS



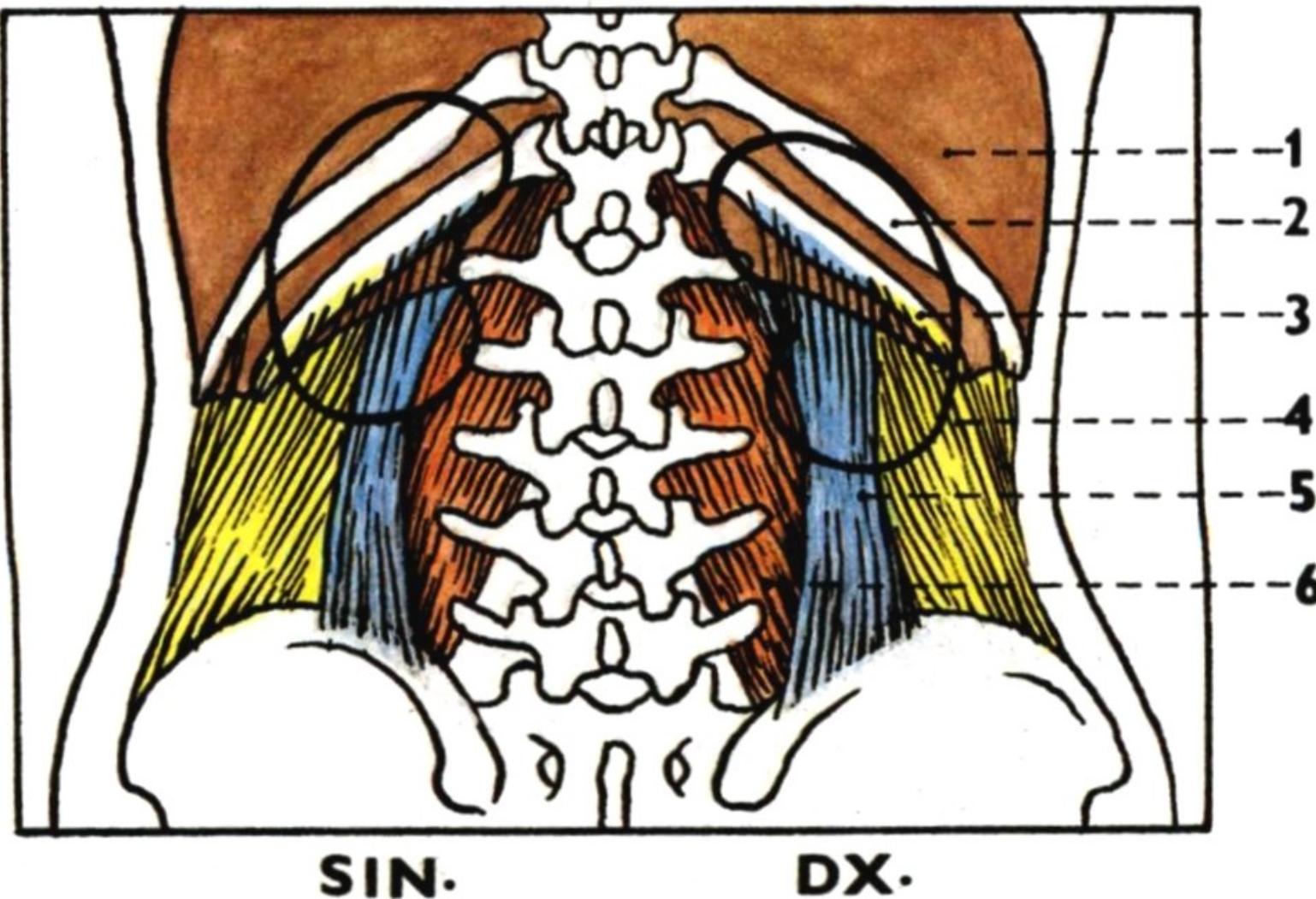


**Recessus intersigmoideus**

**SPATIUM RETROPERITONEALE**

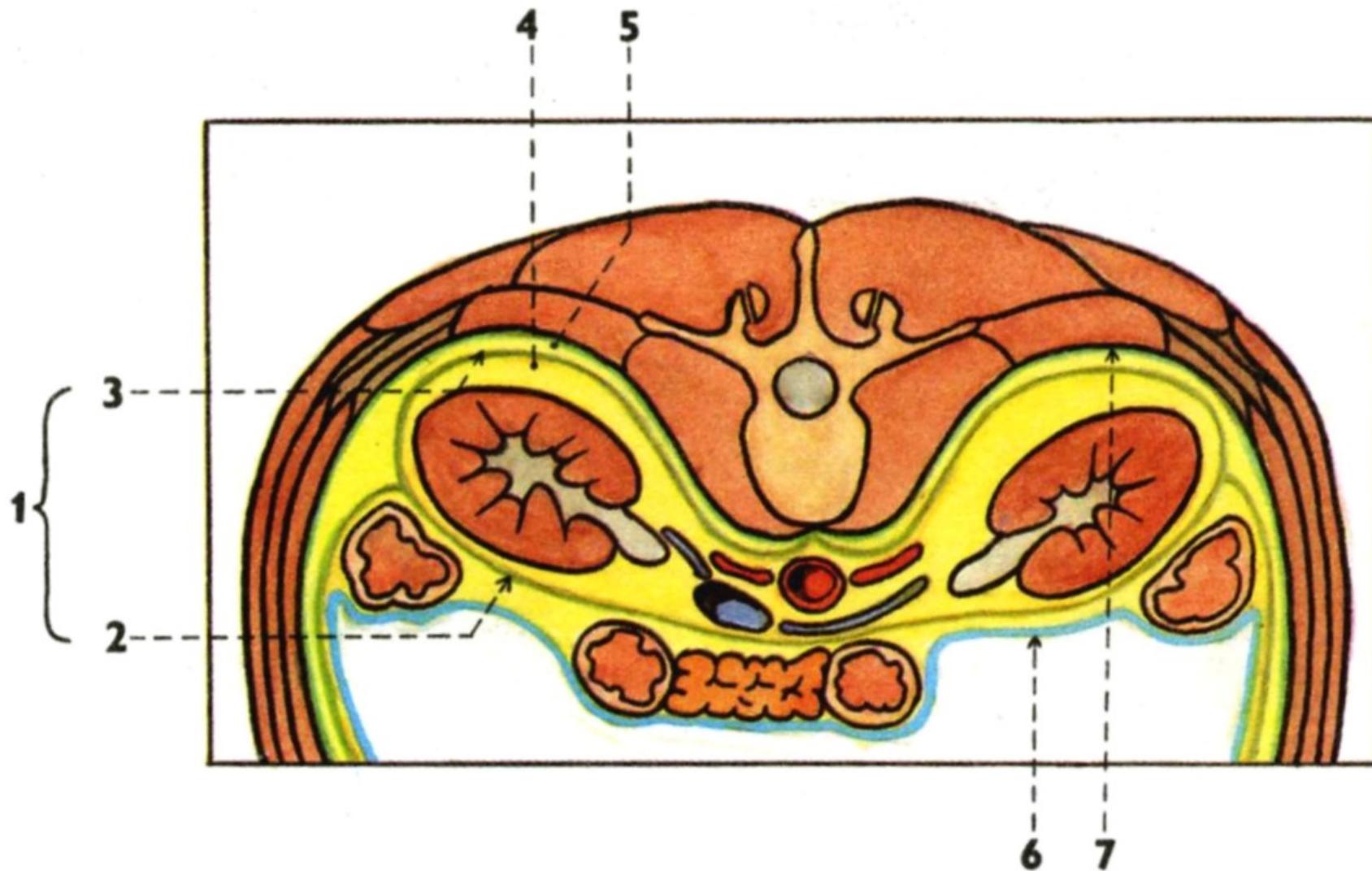


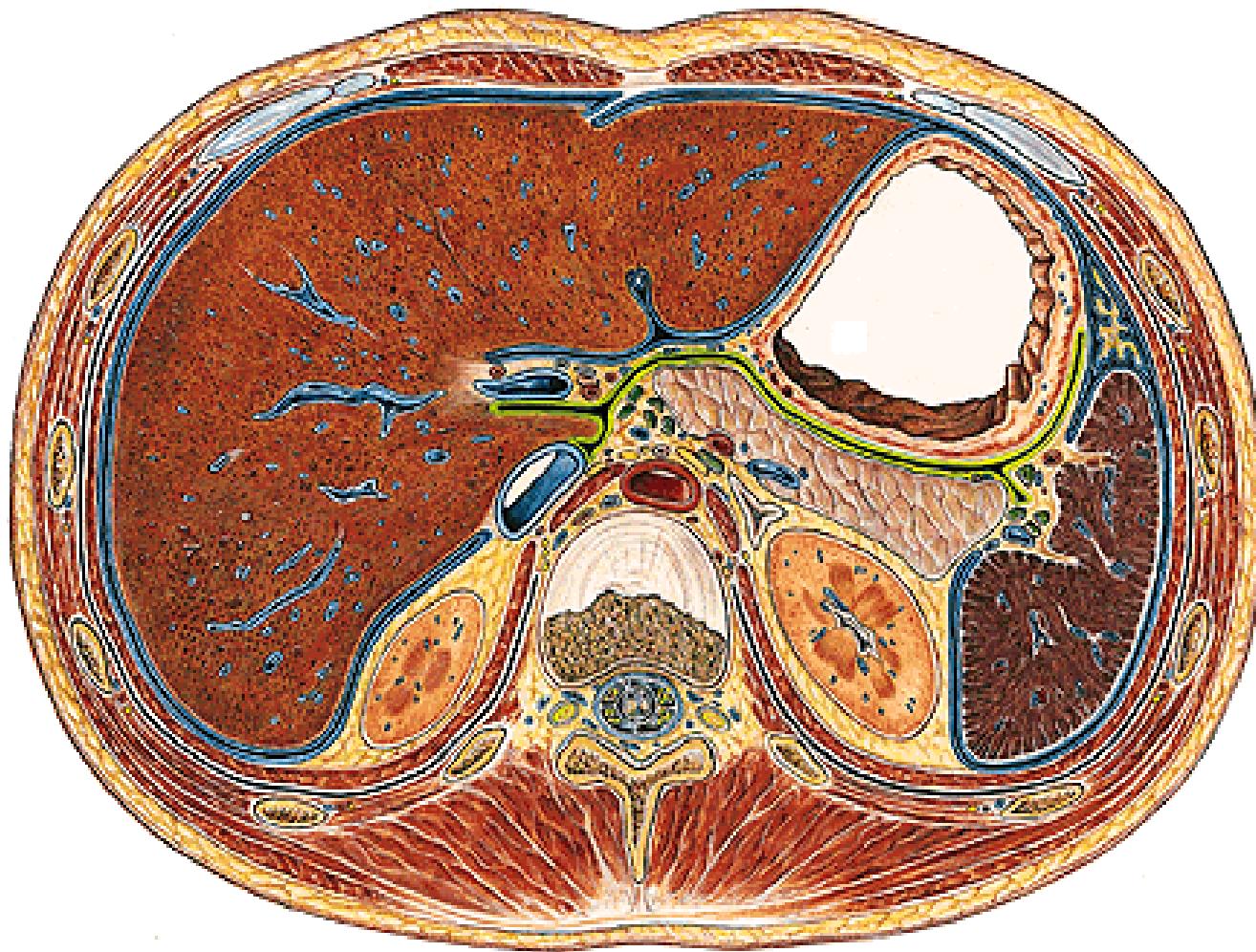
- 1. diaphragma
- 2. 11<sup>th</sup> rib
- 3. 12<sup>th</sup> rib
- 4. m. transversus abdominis
- 5. m. quadratus lumborum
- 6. m. psoas major



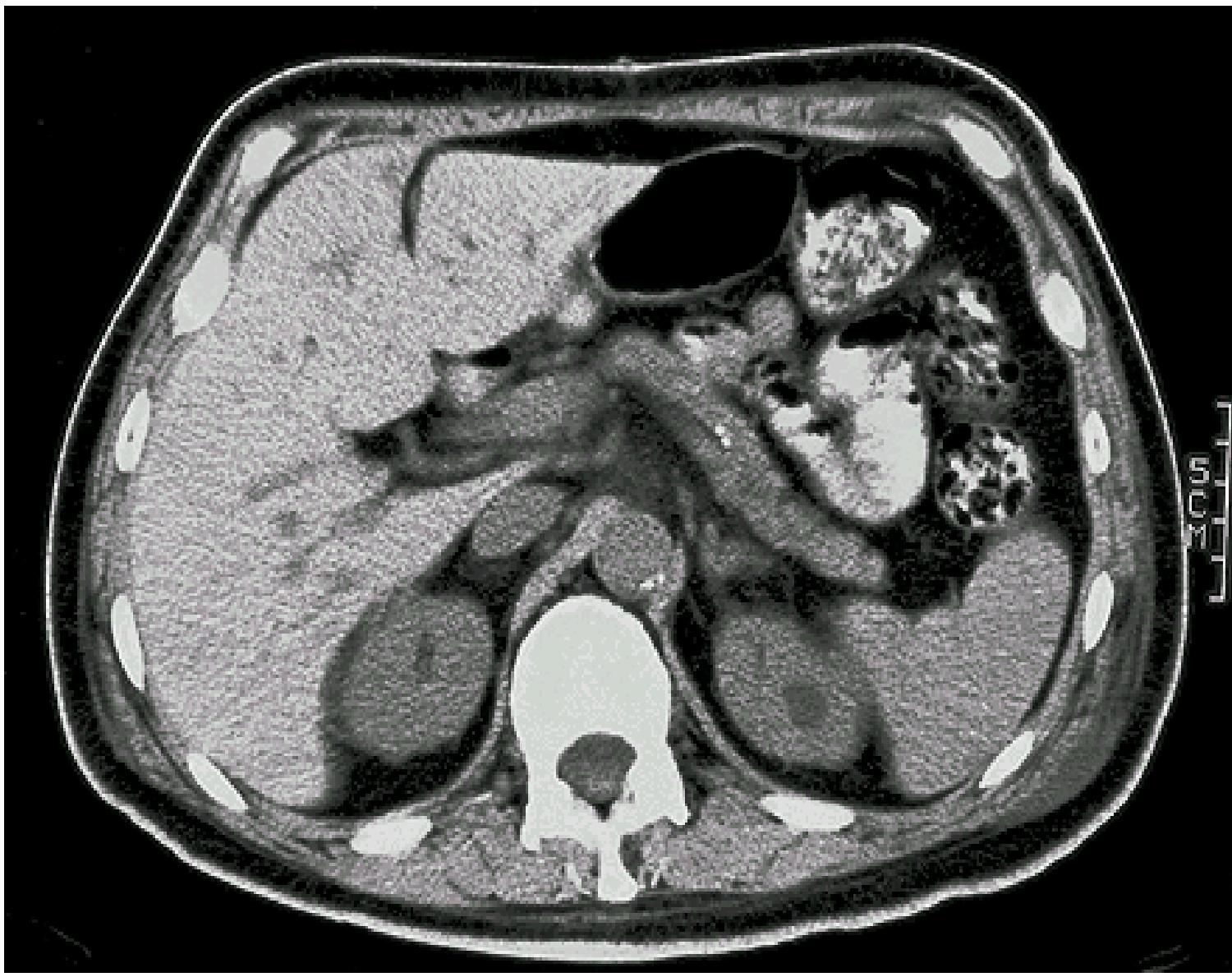
1. fascia renalis
2. lamina praerenalis
3. lamina retrorenalis
4. capsula adiposa

5. corpus adiposum pararenale
6. peritoneum
7. fascia transversalis





**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**