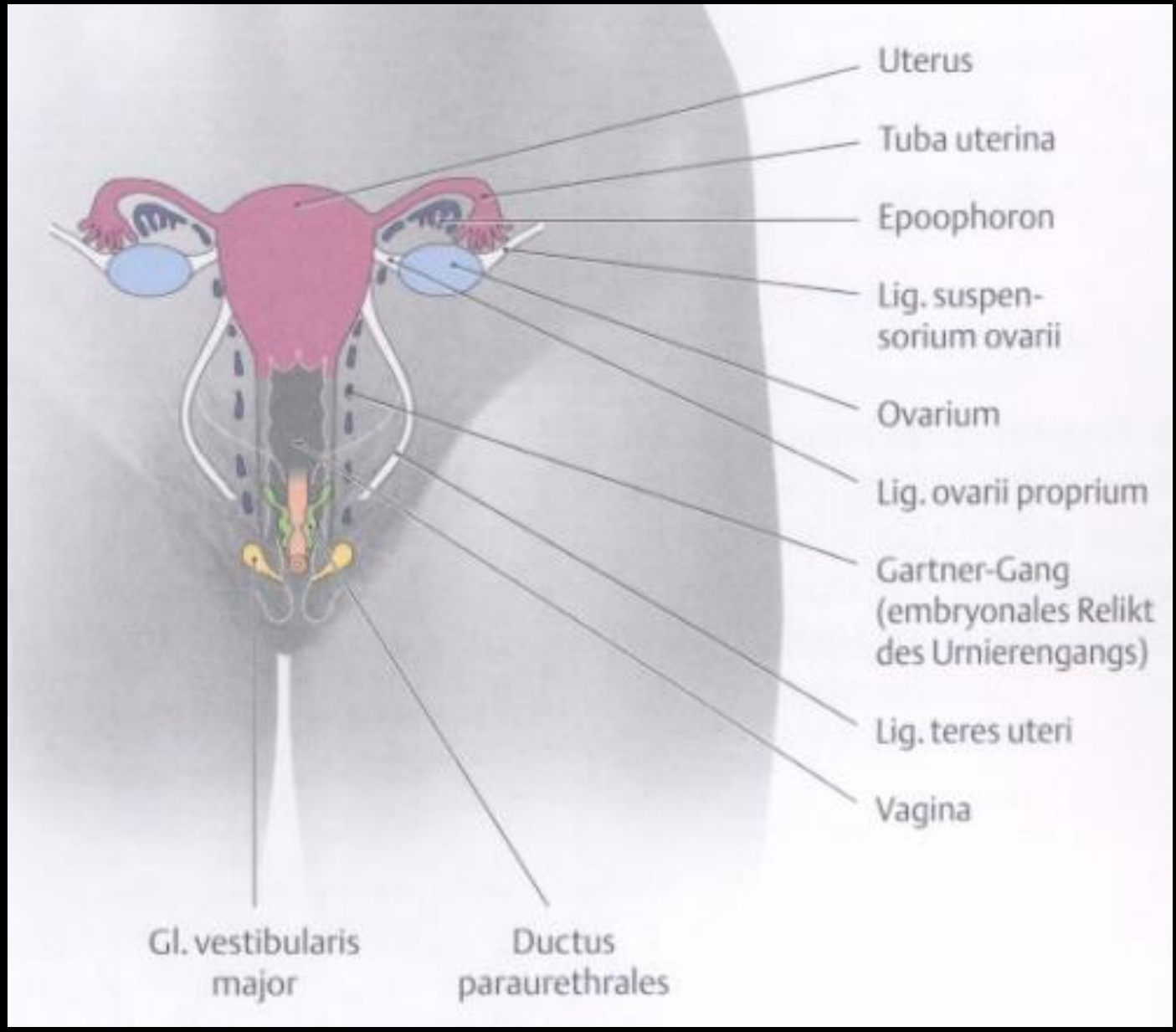
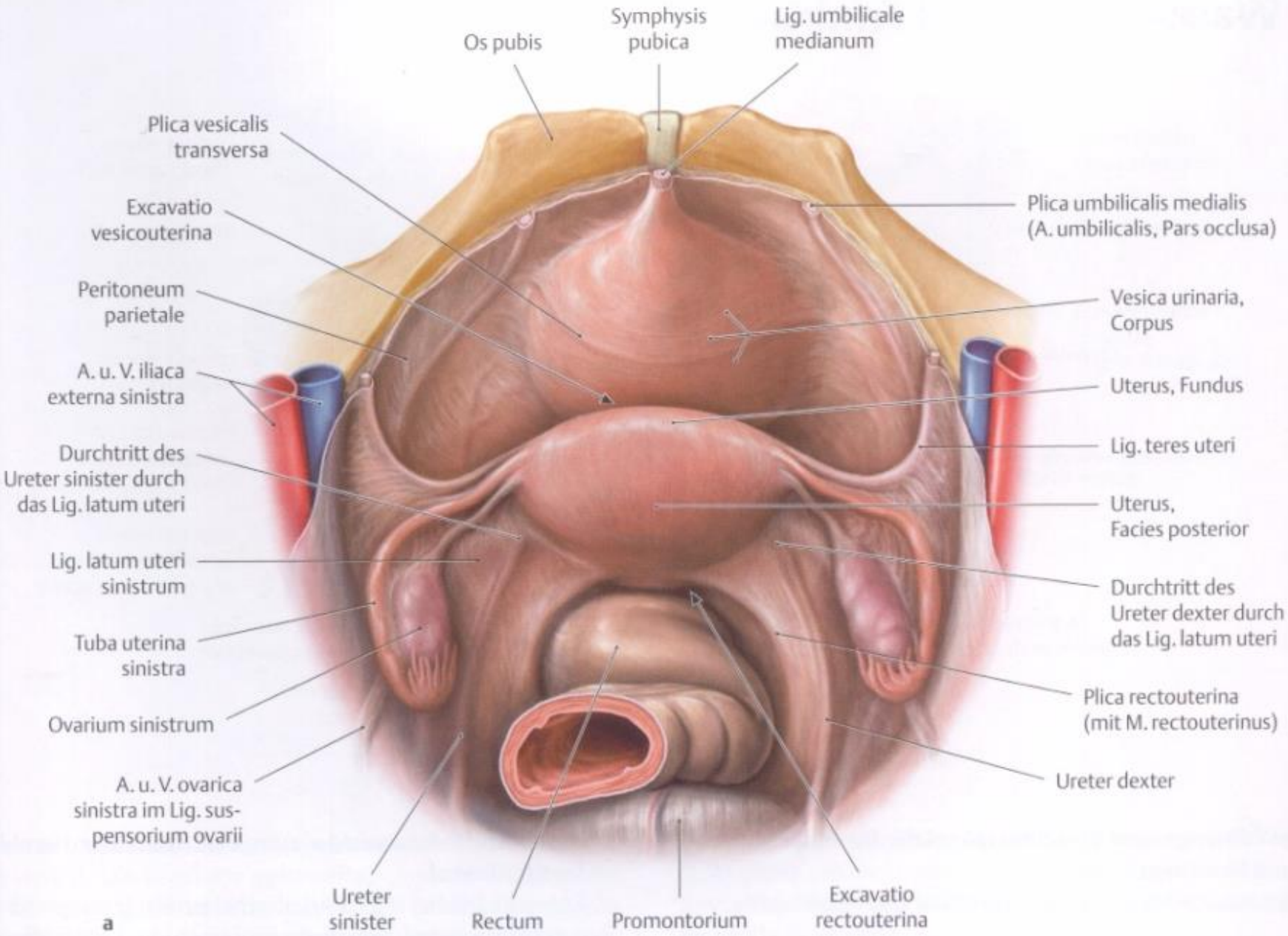
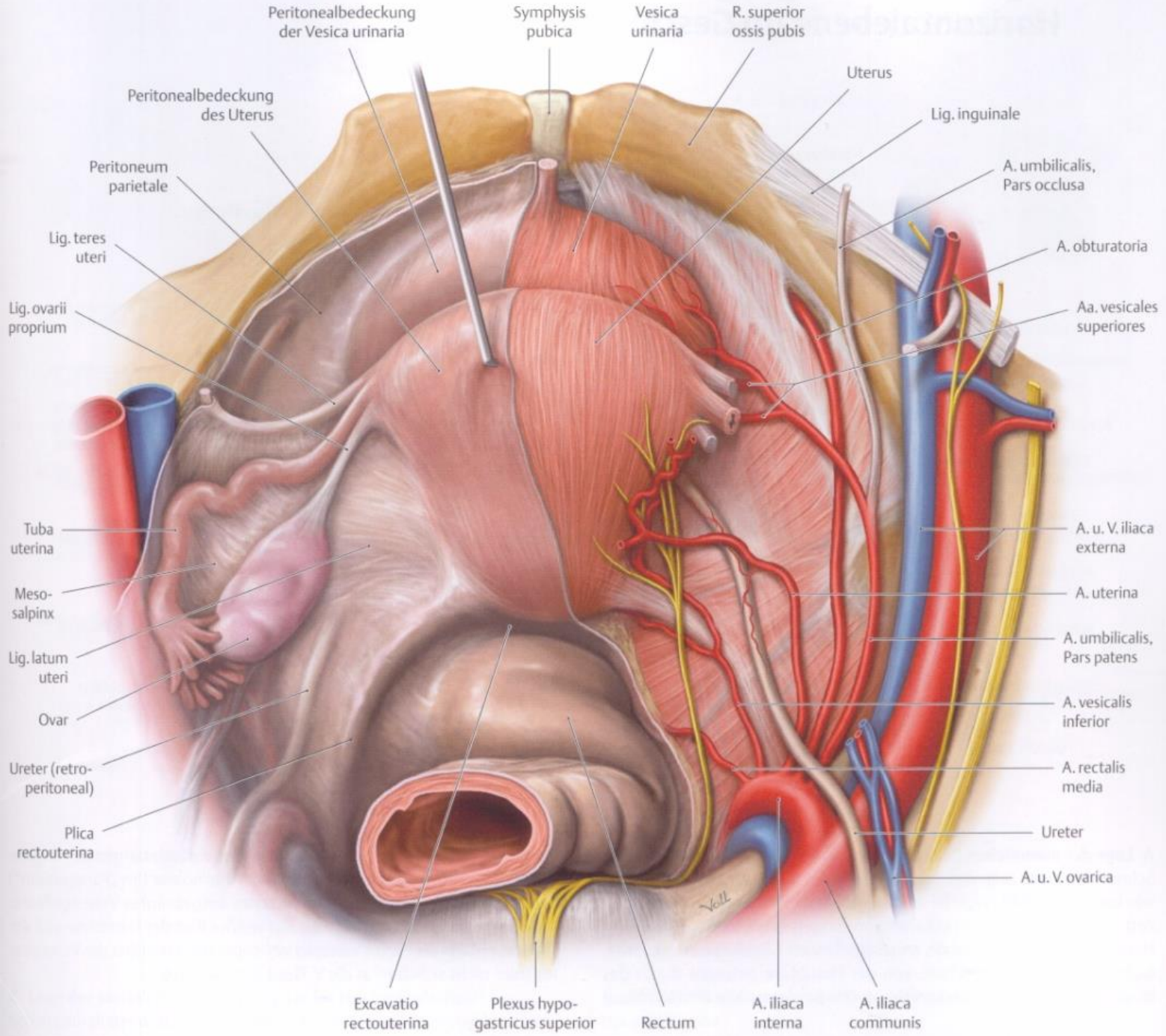
Morphology and histology of uterus

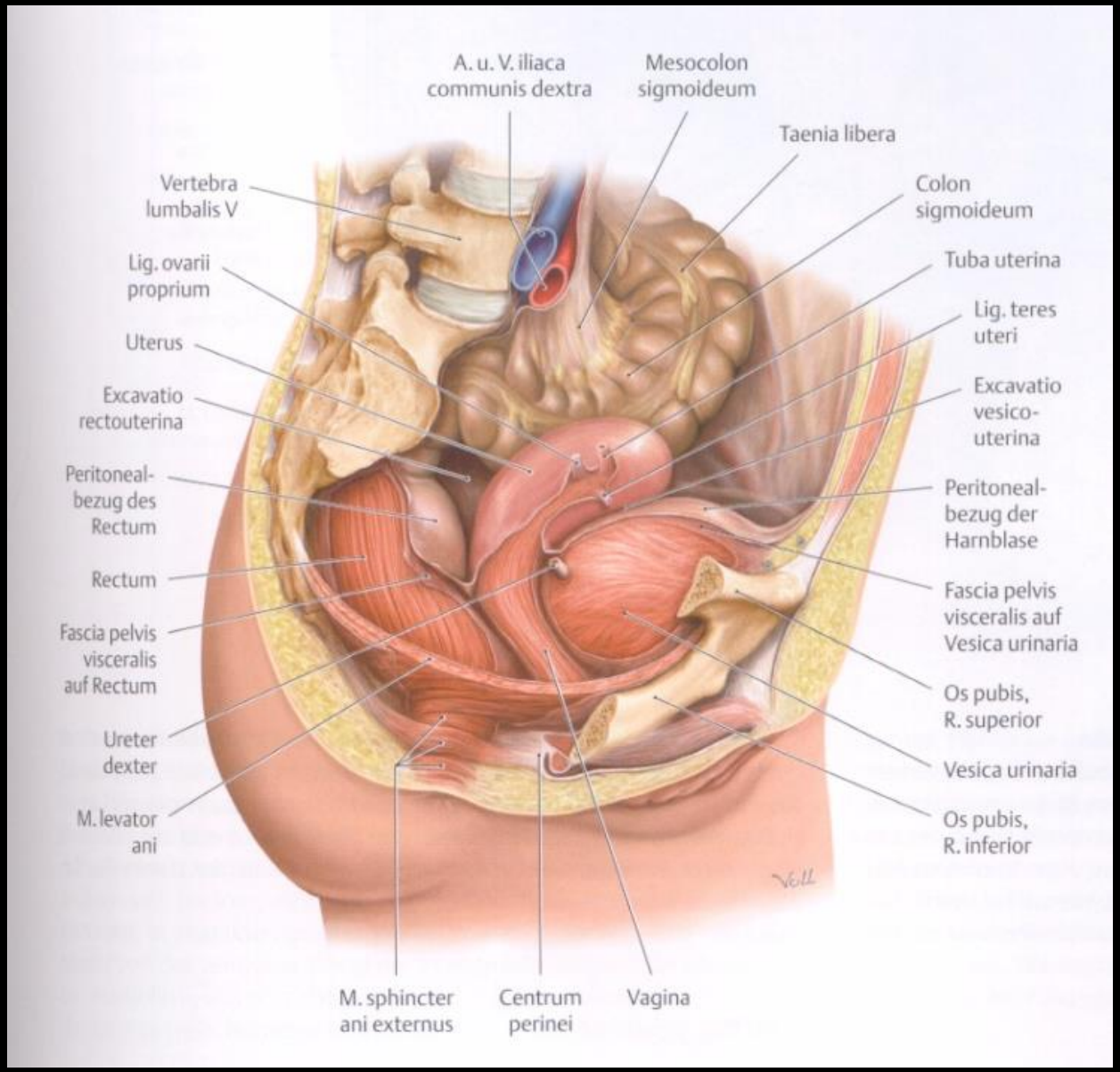
János Barna


Uterus
Tuba uterina
Epoophoron
Lig. suspen-
sorium ovarii
Ovarium
Lig. ovarii proprium
Gartner-Gang
(embryonales Relikt
des Urnierengangs)
Lig. teres uteri
Vagina
Gl. vestibularis
major
Ductus
paraurethrales

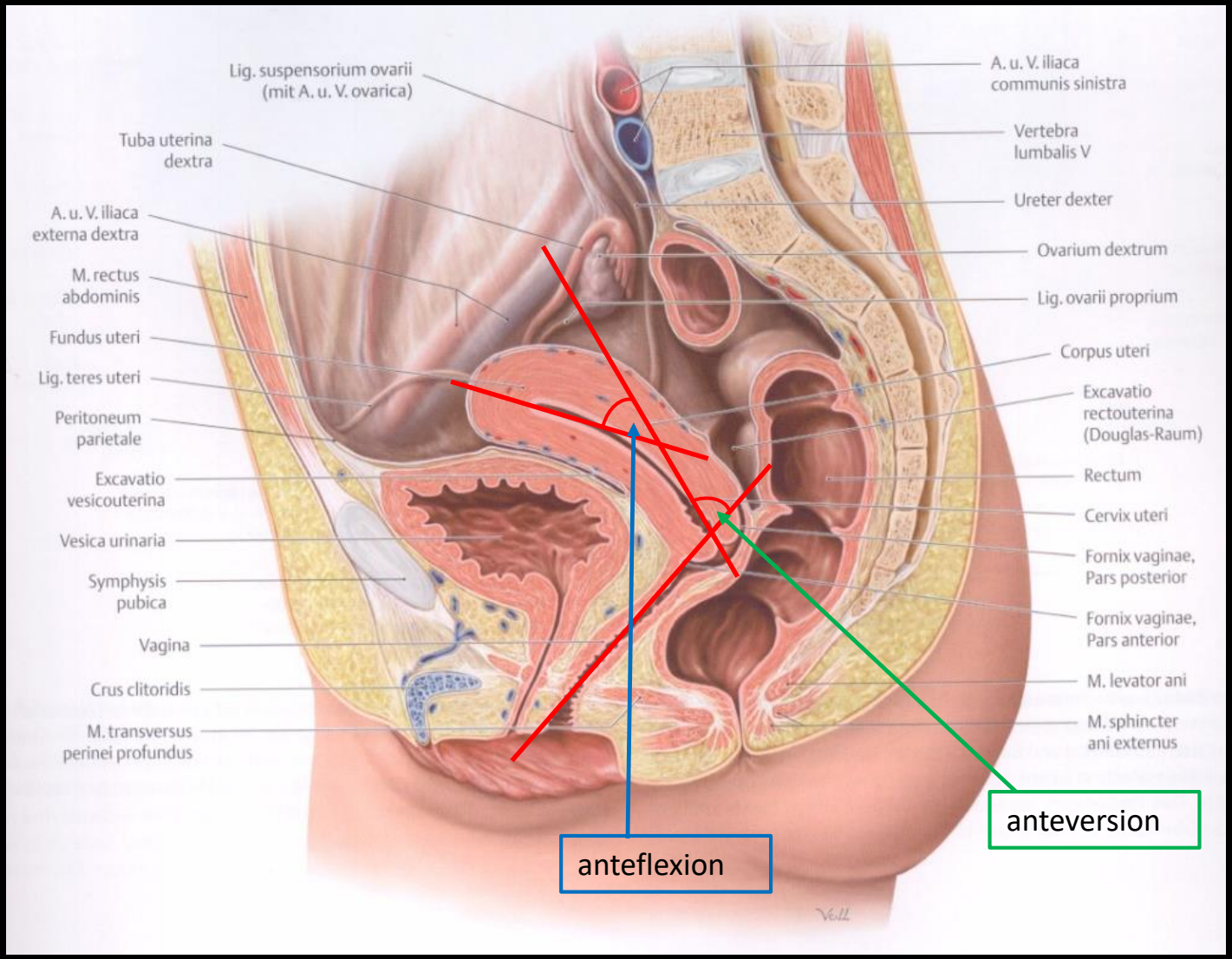

Os pubis
Symphysis pubica
Lig. umbilicale medianum
Plica vesicalis transversa
Excavatio vesicouterina
Peritoneum parietale
A. u. V. iliaca externa sinistra
Durchtritt des Ureter sinister durch das Lig. latum uteri
Lig. latum uteri sinistrum
Tuba uterina sinistra
Ovarium sinistrum
A. u. V. ovarica sinistra im Lig. suspensorium ovarii
Plica umbilicalis medialis (A. umbilicalis, Pars occlusa)
Vesica urinaria, Corpus
Uterus, Fundus
Lig. teres uteri
Uterus, Facies posterior
Durchtritt des Ureter dexter durch das Lig. latum uteri
Plica rectouterina (mit M. rectouterinus)
Ureter dexter
Ureter sinister
Rectum
Promontorium
Excavatio rectouterina
a


Peritonealbedeckung der Vesica urinaria
Symphysis pubica
Vesica urinaria
R. superior ossis pubis
Uterus
Peritonealbedeckung des Uterus
Lig. inguinale
Peritoneum parietale
A. umbilicalis, Pars occlusa
Lig. teres uteri
A. obturatoria
Lig. ovarii proprium
Aa. vesicales superiores
Tuba uterina
A. u. V. iliaca externa
Meso-salpinx
A. uterina
Lig. latum uteri
A. umbilicalis, Pars patens
Ovar
A. vesicalis inferior
Ureter (retro-peritoneal)
A. rectalis media
Plica rectouterina
Ureter
A. u. V. ovarica
Excavatio rectouterina
Plexus hypo-gastricus superior
Rectum
A. iliaca interna
A. iliaca communis

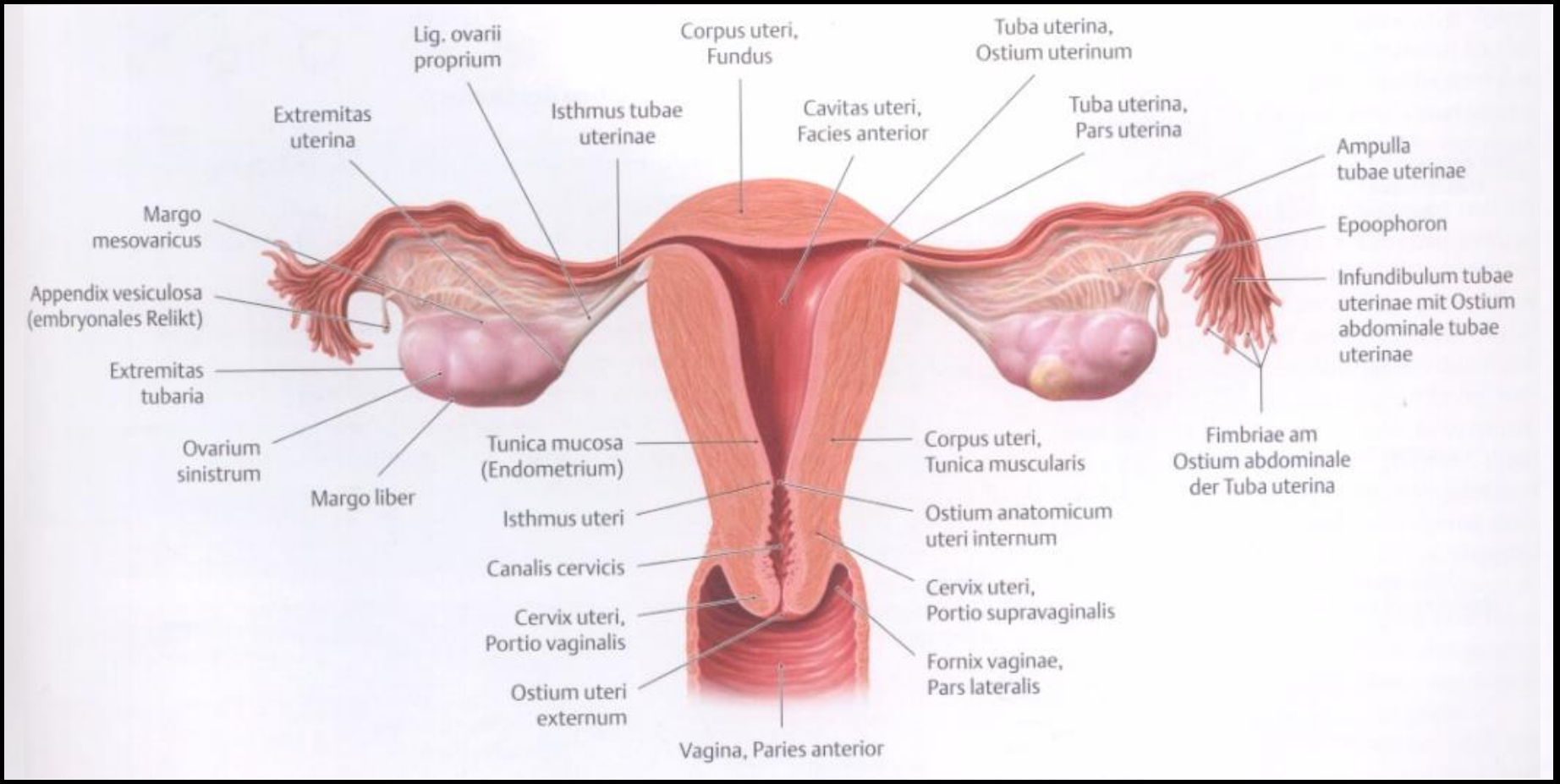
Uterus


A. u. V. iliaca communis dextra
Mesocolon sigmoideum
Taenia libera
Vertebra lumbalis V
Colon sigmoideum
Lig. ovarii proprium
Tuba uterina
Uterus
Lig. teres uteri
Excavatio rectouterina
Excavatio vesico-uterina
Peritoneal-bezug des Rectum
Peritoneal-bezug der Harnblase
Rectum
Fascia pelvis visceralis auf Vesica urinaria
Fascia pelvis visceralis auf Rectum
Os pubis, R. superior
Ureter dexter
Vesica urinaria
M. levator ani
Os pubis, R. inferior
M. sphincter ani externus
Centrum perinei
Vagina

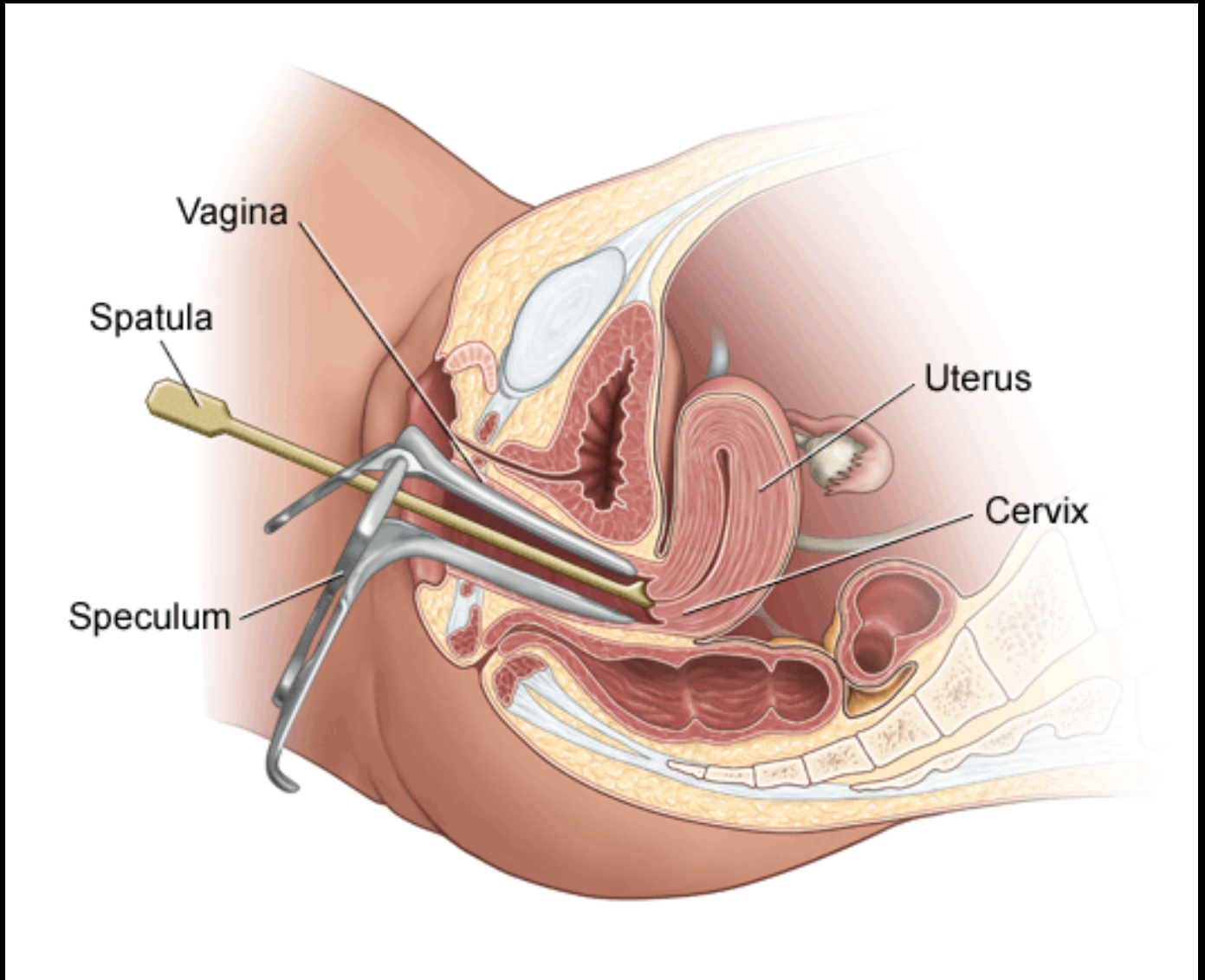
Uterus most commonly lies in an anteverted and anteflected position



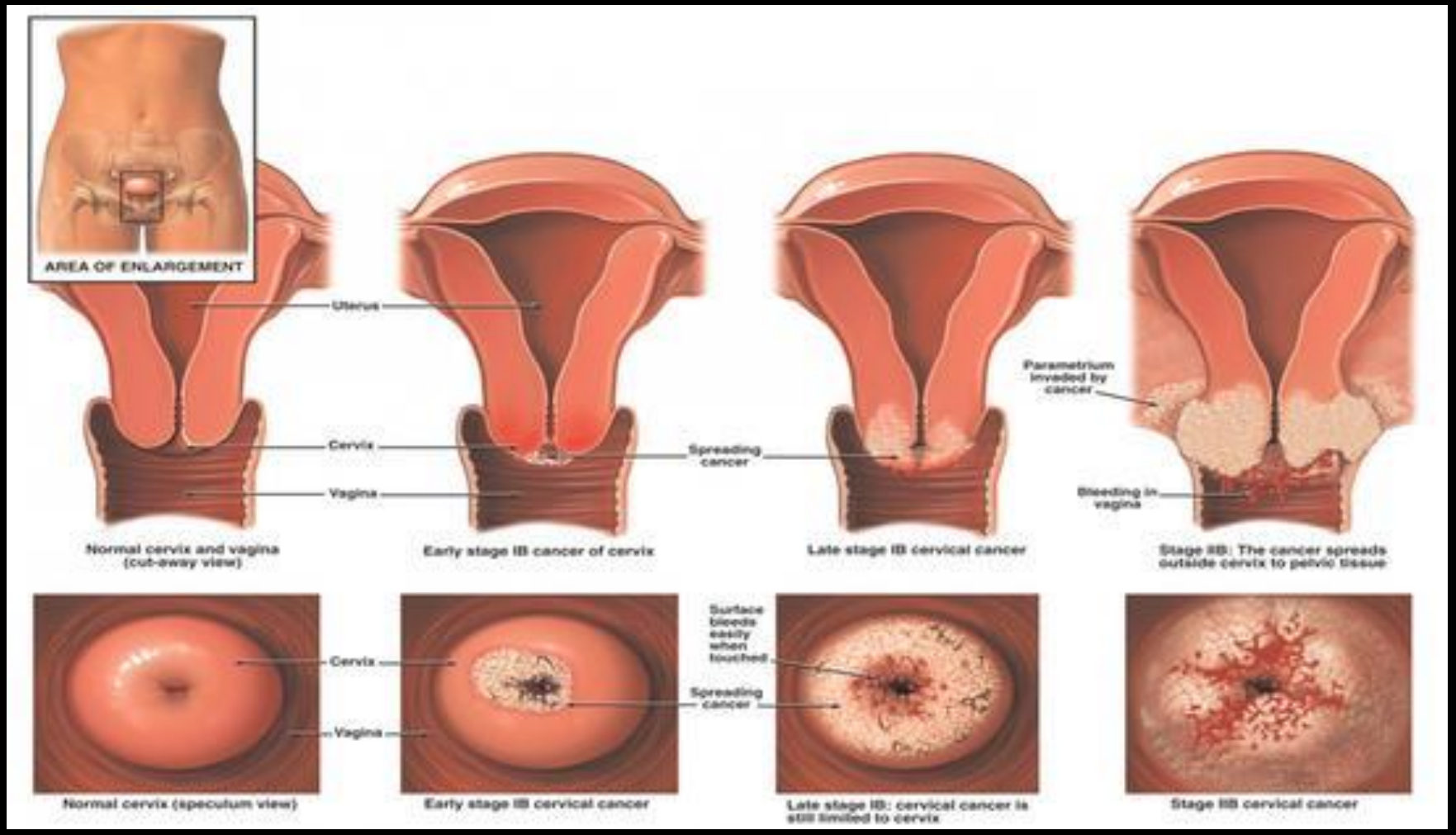
Uterus


Lig. ovarii proprium
Corpus uteri, Fundus
Tuba uterina, Ostium uterinum
Extremitas uterina
Isthmus tubae uterinae
Cavitas uteri, Facies anterior
Tuba uterina, Pars uterina
Ampulla tubae uterinae
Margo mesovaricus
Epoophoron
Appendix vesiculosa (embryonales Relikt)
Infundibulum tubae uterinae mit Ostium abdominale tubae uterinae
Extremitas tubaria
Ovarium sinistrum
Margo liber
Tunica mucosa (Endometrium)
Corpus uteri, Tunica muscularis
Fimbriae am Ostium abdominale der Tuba uterina
Isthmus uteri
Ostium anatomicum uteri internum
Canalis cervicis
Cervix uteri, Portio supravaginalis
Cervix uteri, Portio vaginalis
Fornix vaginae, Pars lateralis
Ostium uteri externum
Vagina, Paries anterior

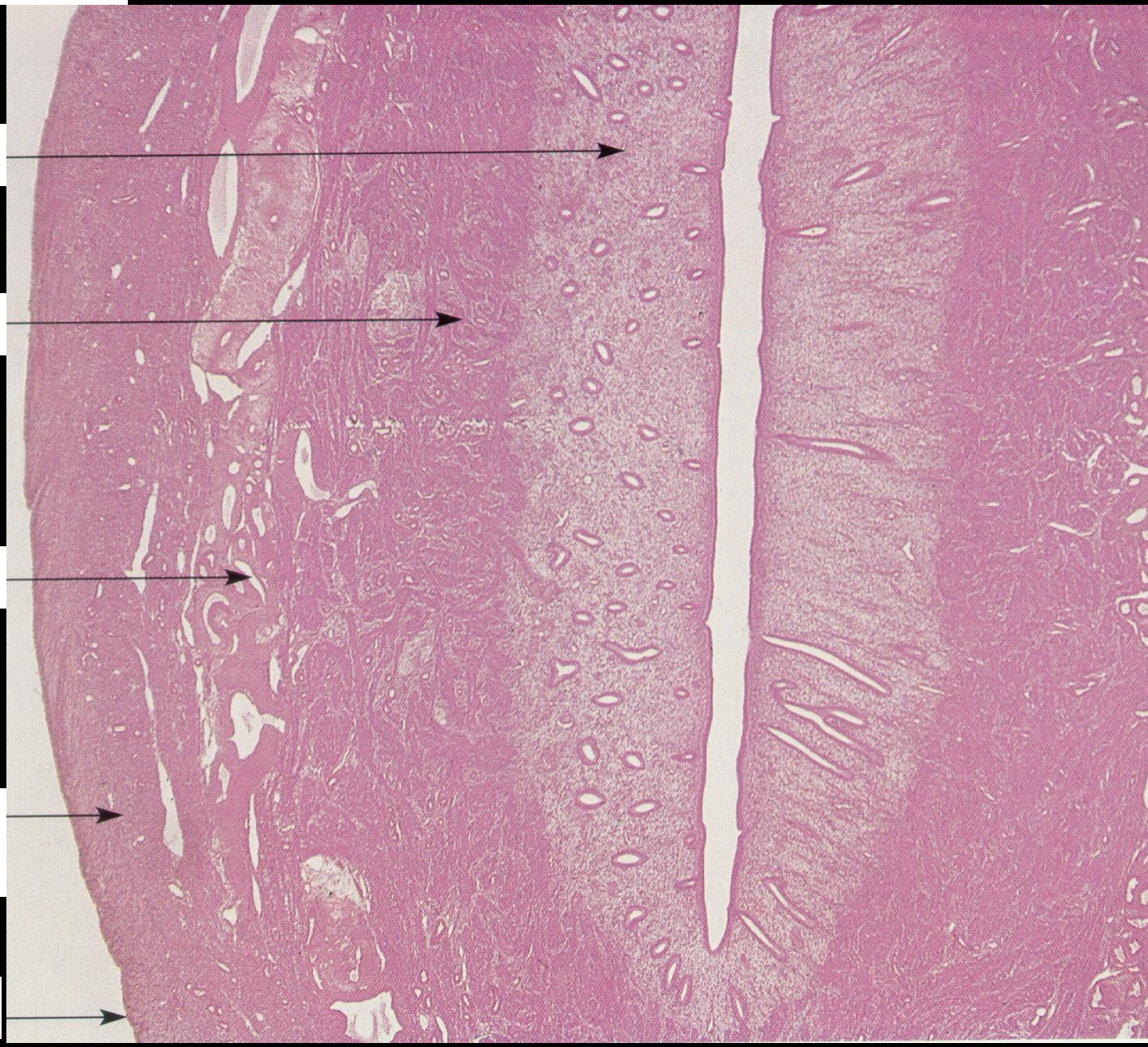
Pap (Papanicolaou test) test (screening for cervical cancer)

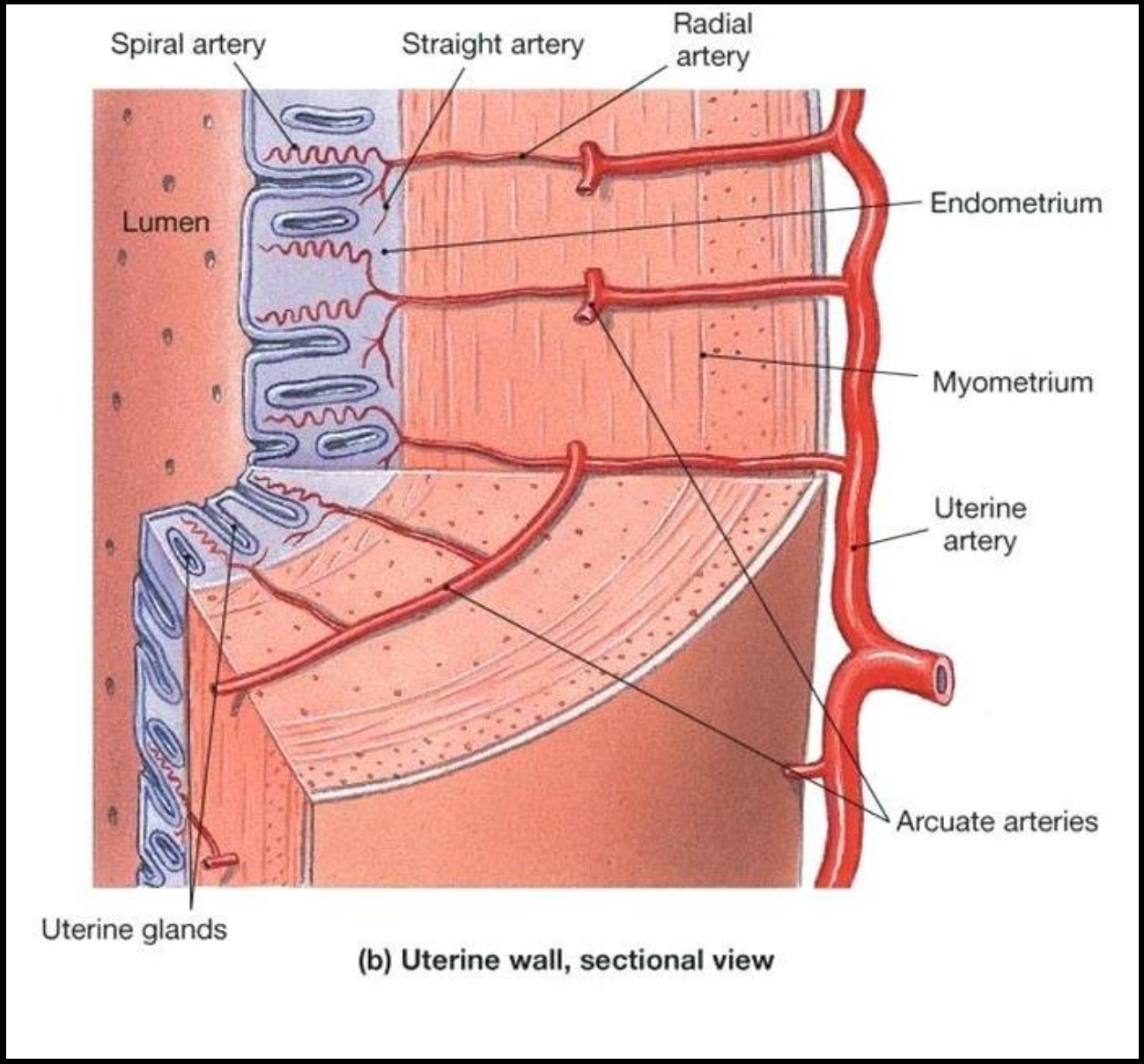


Pap (Papanicolaou test) test (screening for cervical cancer)



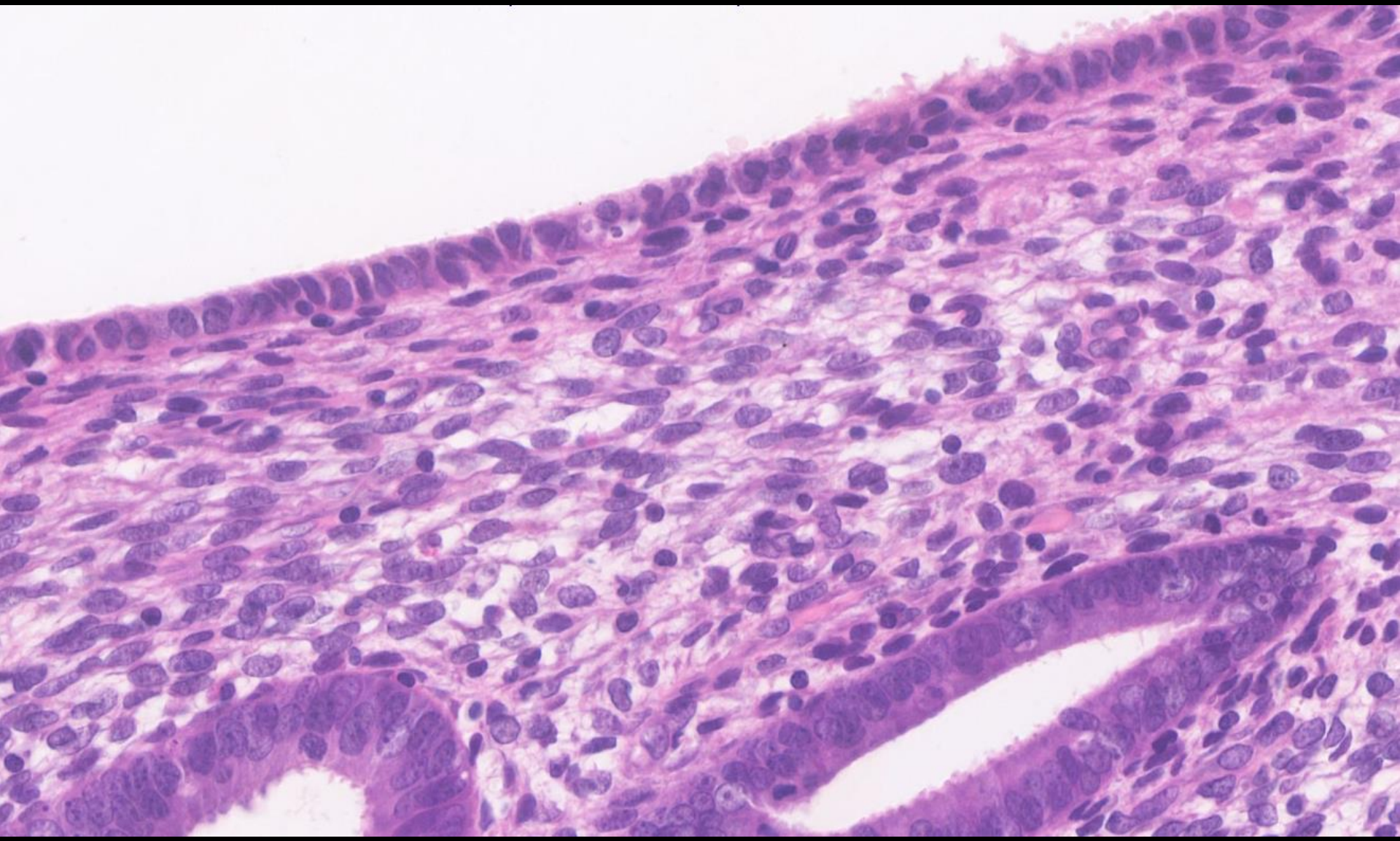
Uterus proliferative phase



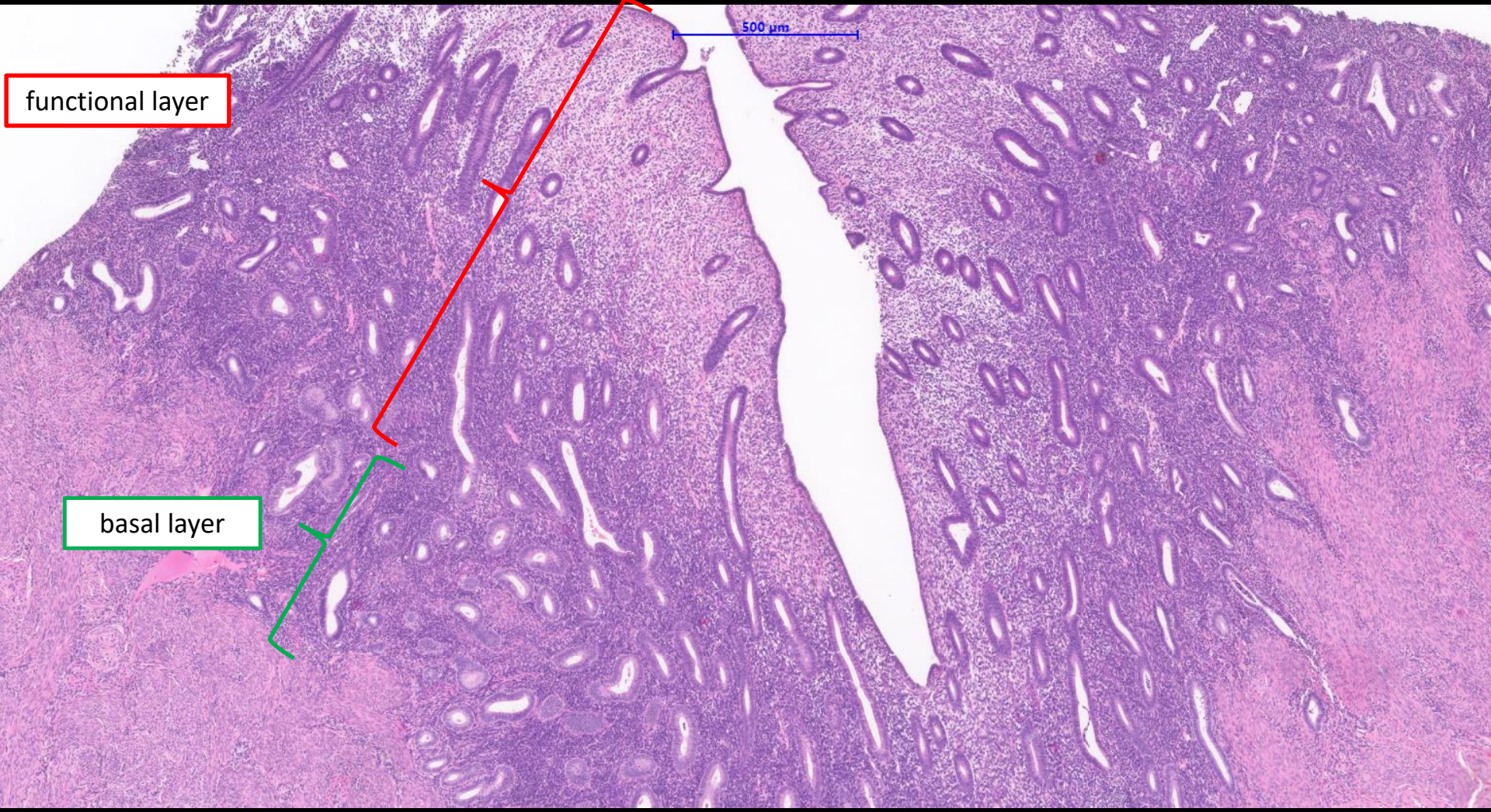


(b) Uterine wall, sectional view

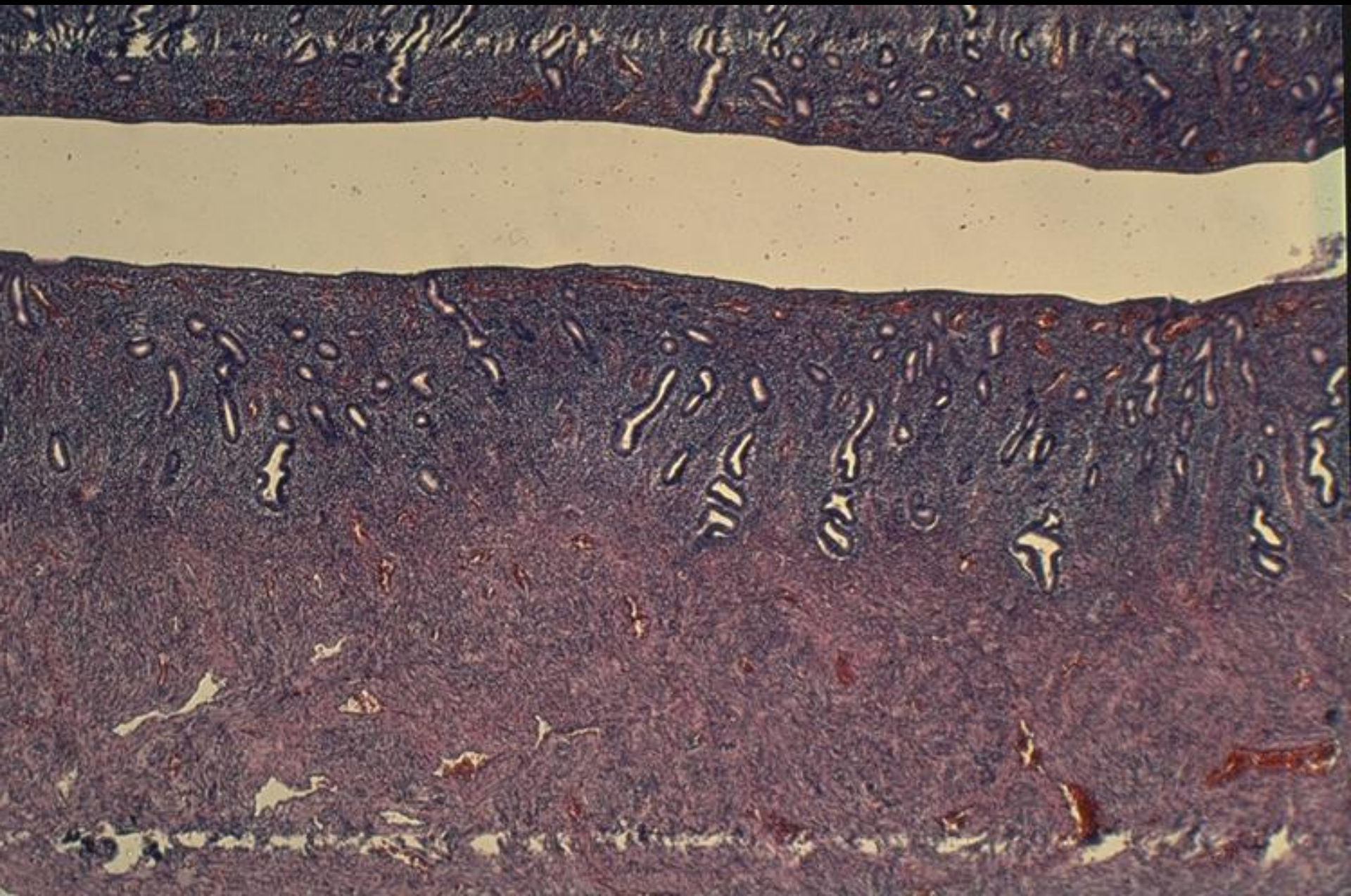
Uterus proliferative phase



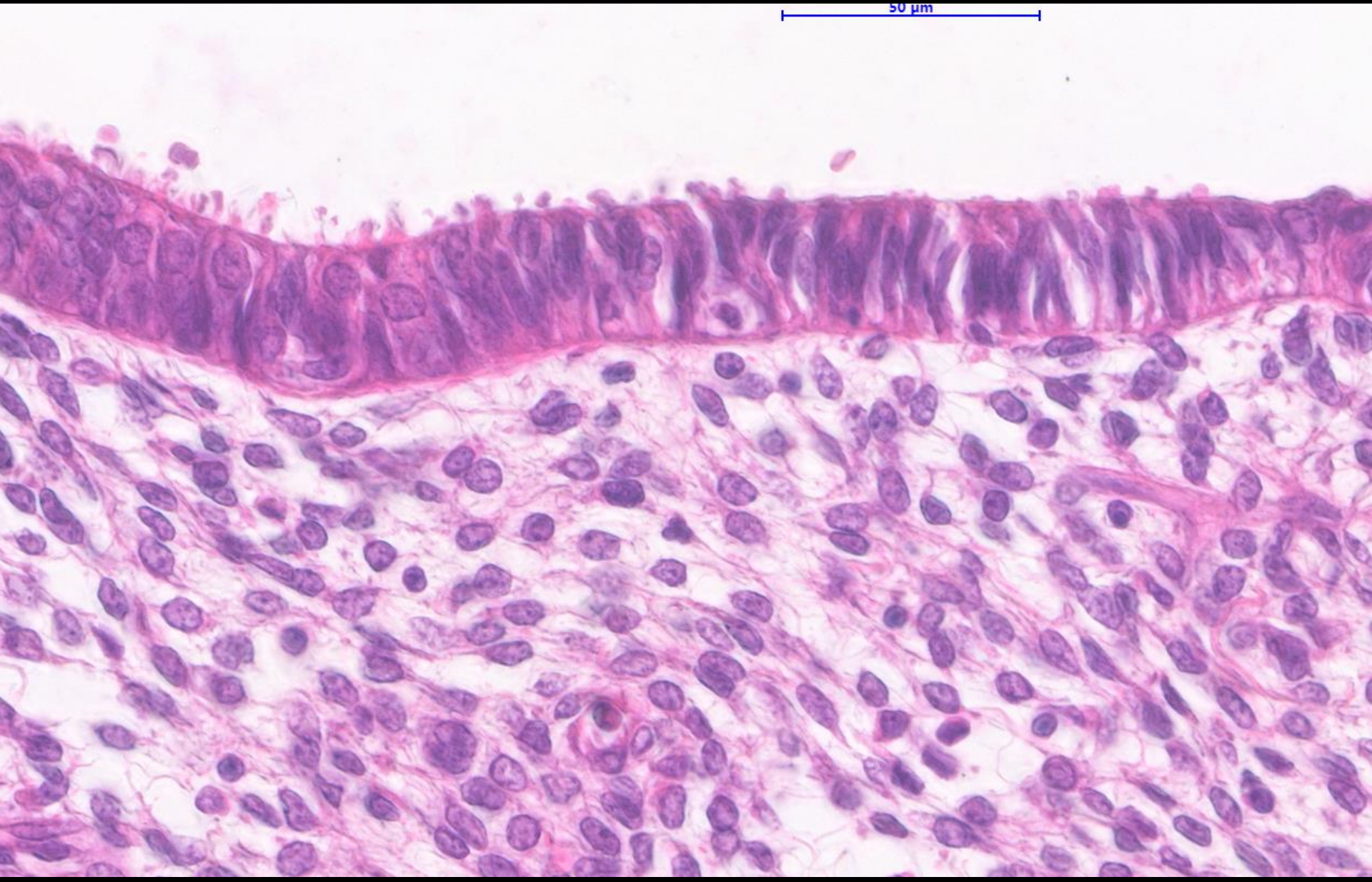
Layers of endometrium



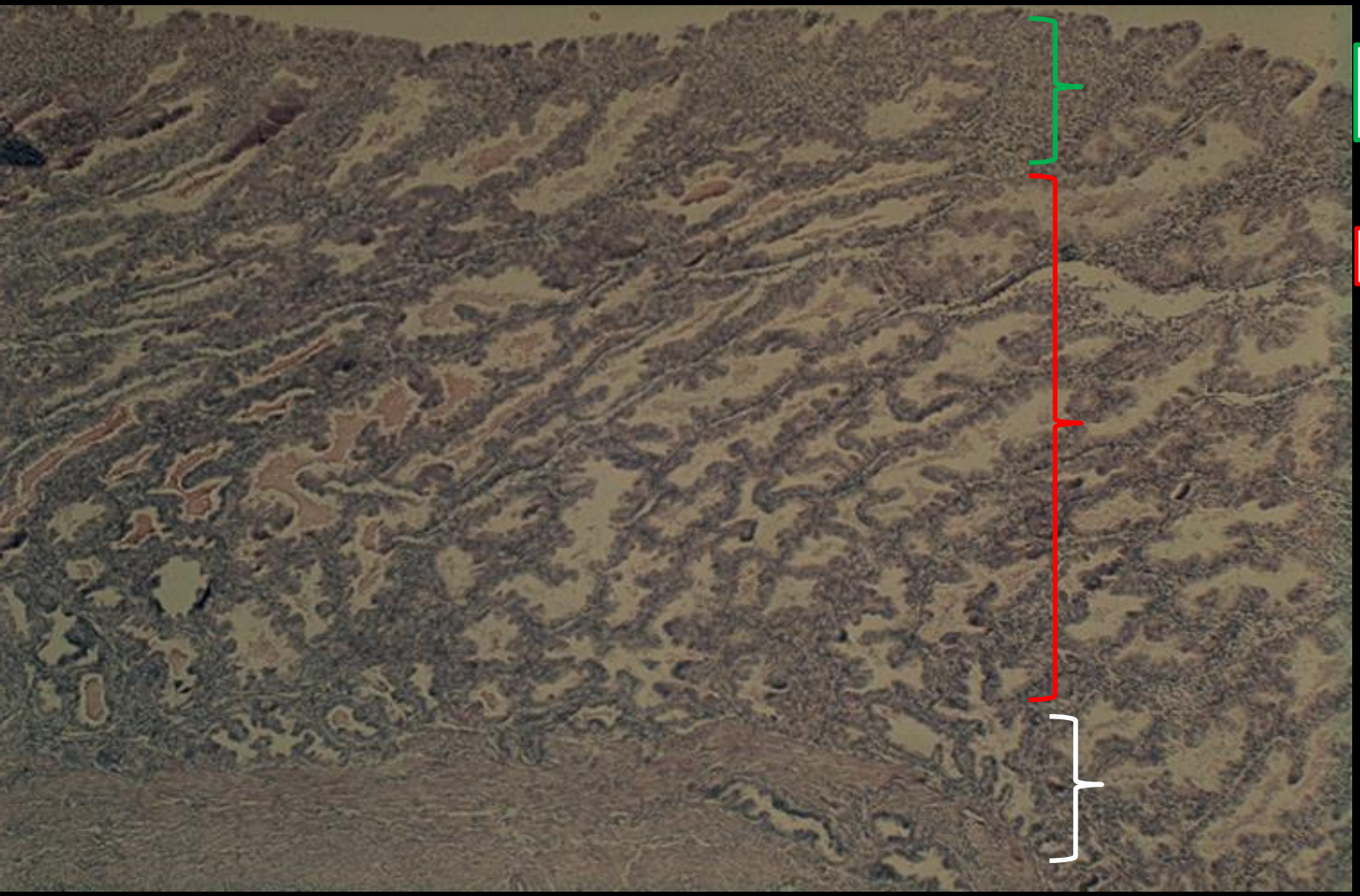
Uterus proliferative phase



Uterus early secretory phase


50 µm

Endometrium in the secretory phase

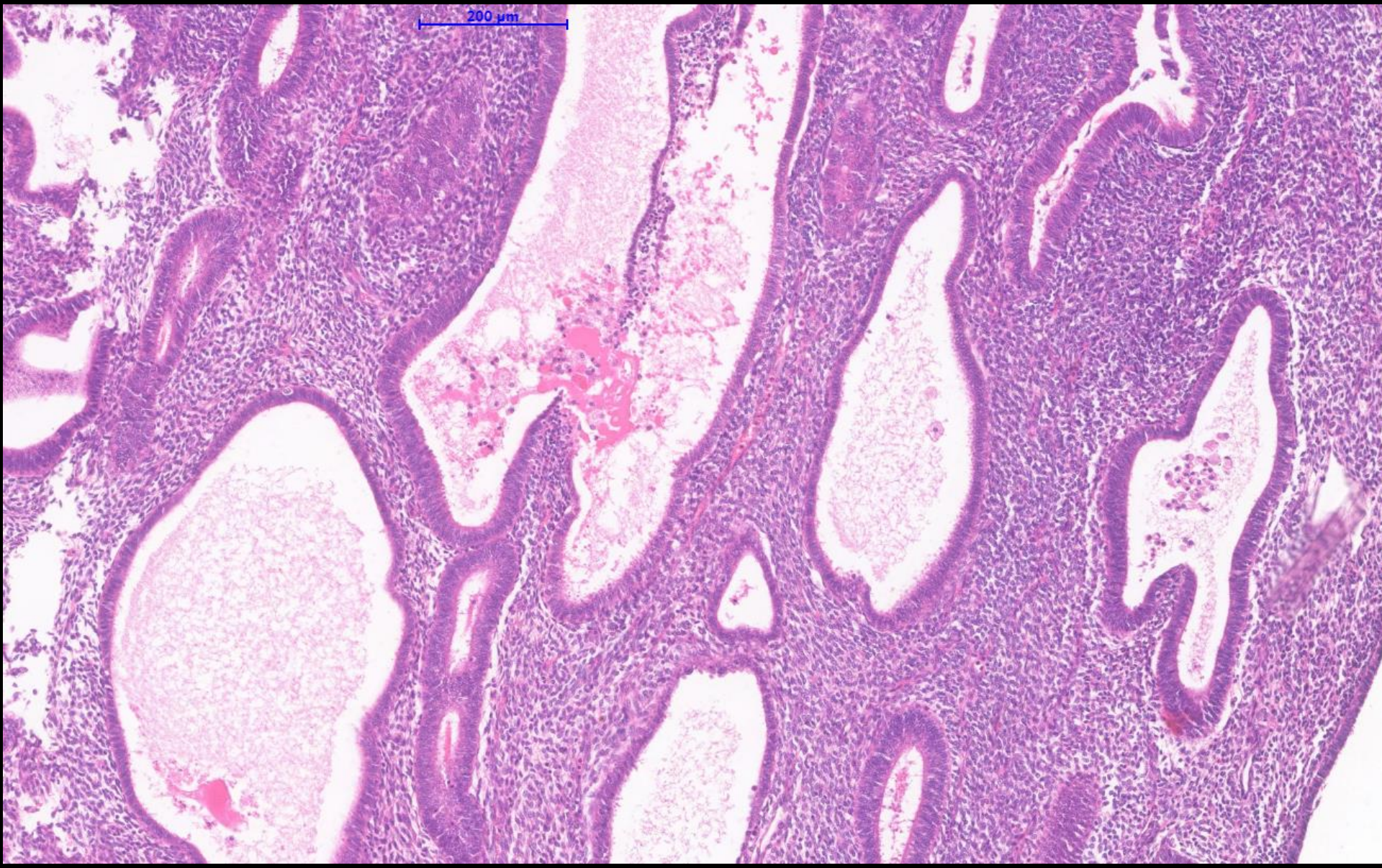


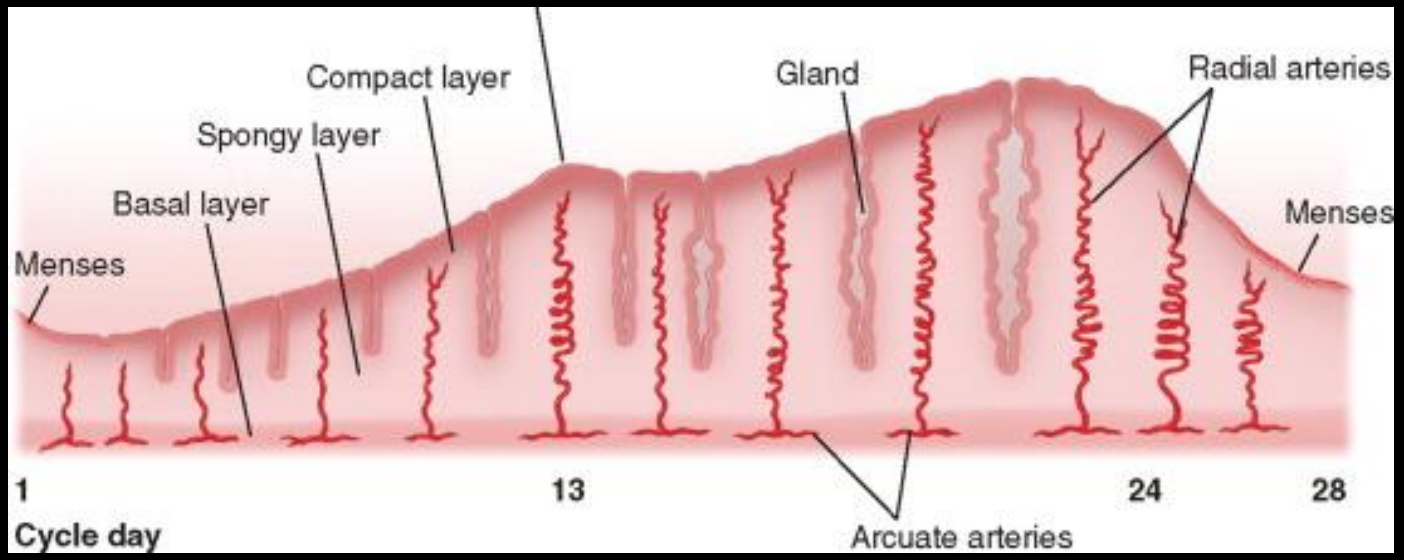
Compact layer

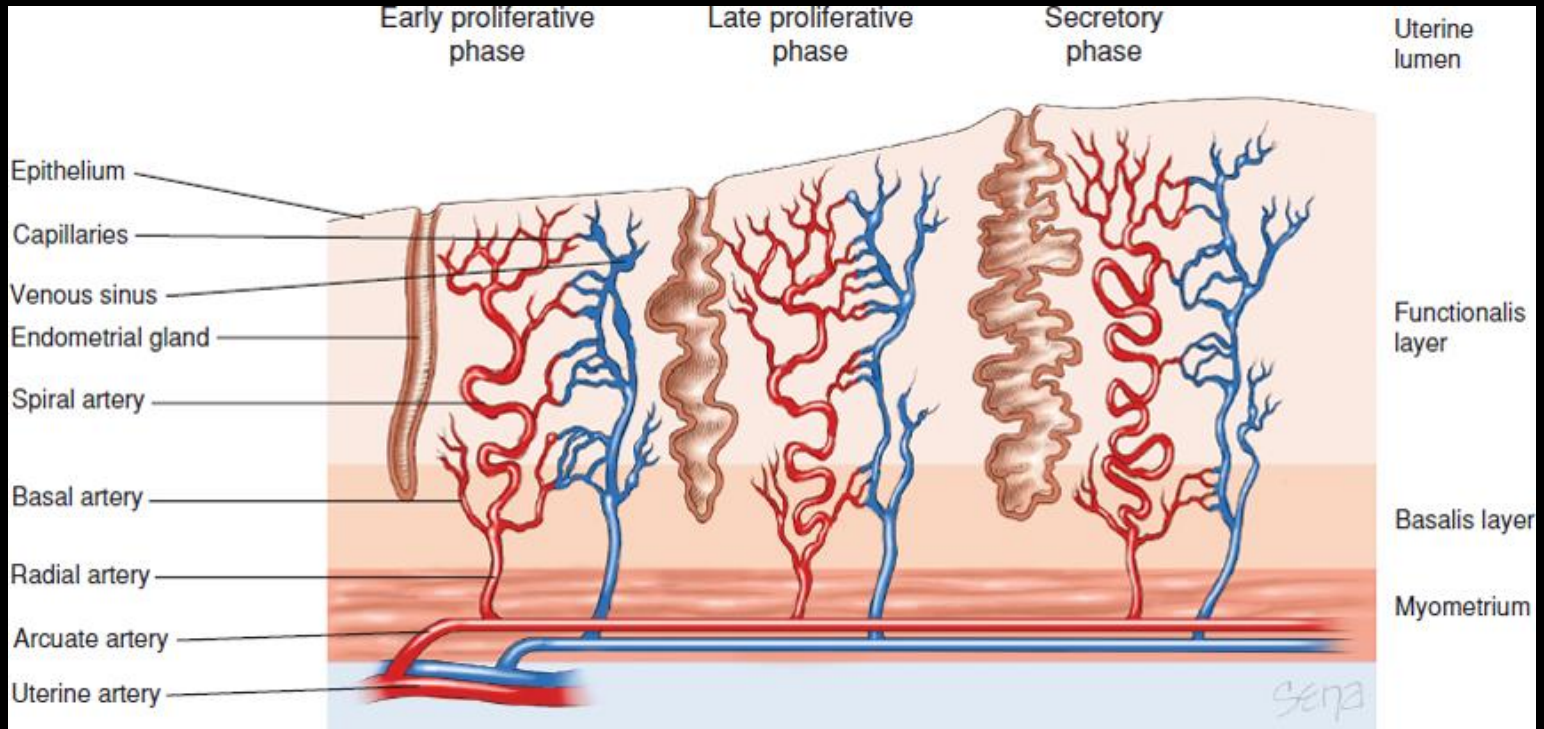
Spongy layer

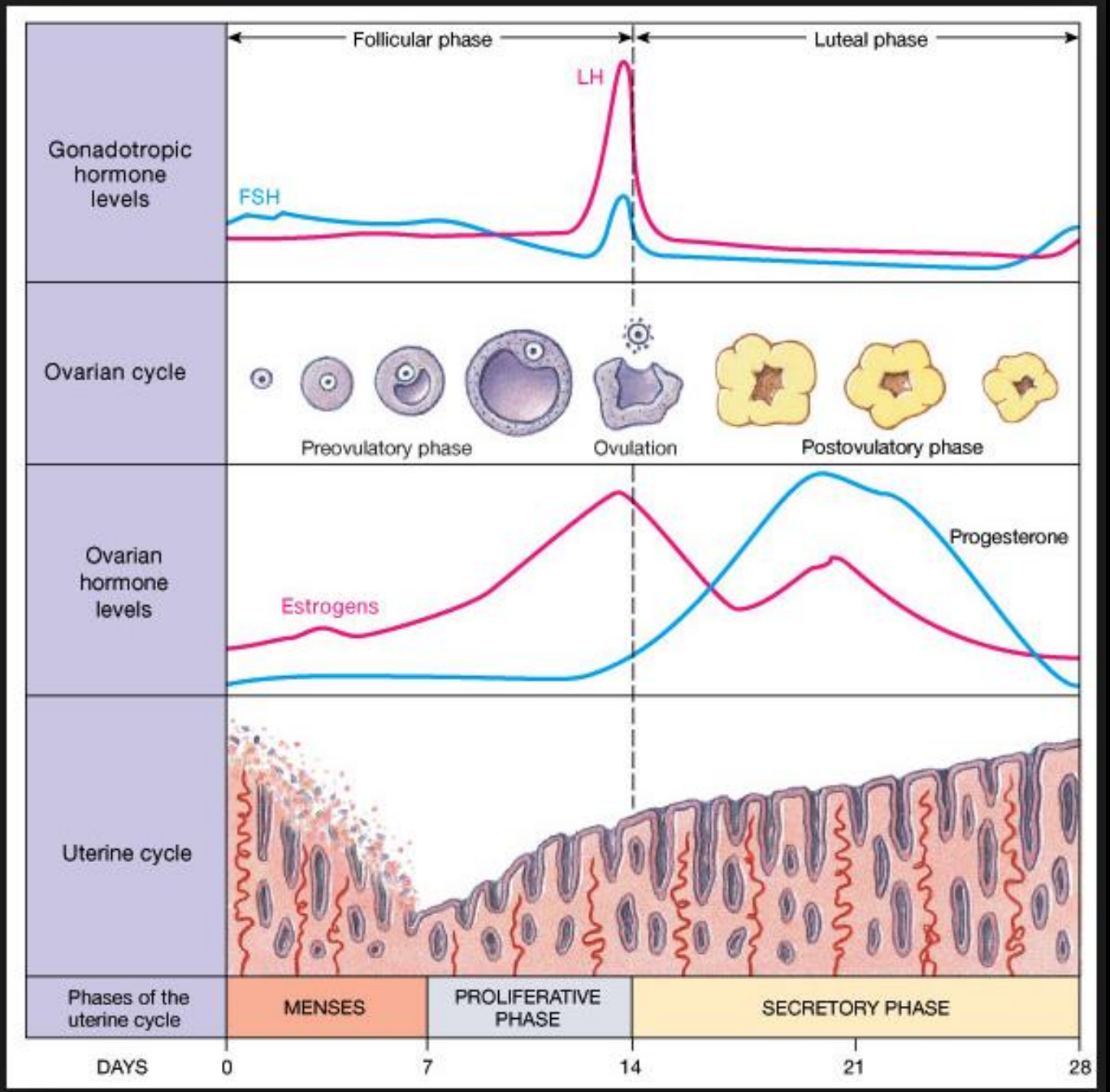
Basal layer

Functional layer


200 µm


Compact layer
Spongy layer
Basal layer
Menses
Gland
Radial arteries
Menses
1
13
24
28
Cycle day
Arcuate arteries


Early proliferative phase
Late proliferative phase
Secretory phase
Uterine lumen
Epithelium
Capillaries
Venous sinus
Endometrial gland
Spiral artery
Basal artery
Radial artery
Arcuate artery
Uterine artery
Functionalis layer
Basalis layer
Myometrium


Follicular phase
Luteal phase
Gonadotropic hormone levels
LH
FSH
Ovarian cycle
Preovulatory phase
Ovulation
Postovulatory phase
Ovarian hormone levels
Progesterone
Estrogens
Uterine cycle
Phases of the uterine cycle
MENSES
PROLIFERATIVE PHASE
SECRETORY PHASE
DAYS
0
7
14
21
28