

Controversies & updates in Vascular Surgery

Paris - january 21 2017

Venous session

Vulvar varicose veins after pregnancy

Is duplex scan sufficient to find the sources?

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Disclosure

Speaker name : Lemasle Philippe

I have the following potential conflicts of interest to report:

- Consulting
- Employment in industry
- Shareholder in a healthcare company
- Owner of a healthcare company
- Other(s)
- I do not have any potential conflict of interest

Vulvar varicose veins during pregnancy

during pregnancy:

- hormonal factors
- mechanical factors
- hemodynamic factors
- = dilation of the venous trunks of pelvis and lower limbs

>> valvular incompetence

Vulvar varicose veins after pregnancy

after pregnancy:

hormonal factors
 mechanical factors
 hemodynamic factors
 tvenous tonicity
 venous pressure

>> valvular competence

Vulvar varicose veins after pregnancy

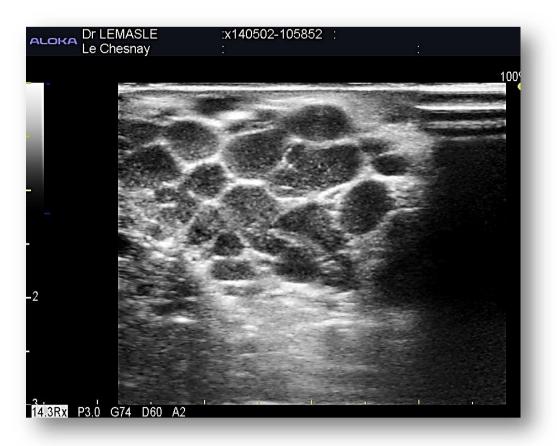
after pregnancy:

- if pre-existing valvular disease
- if vein parietal anomaly varicose heredity +++
- if multiple et close pregnancies +++

>> residual varicose veins in the pelvis and lower limbs

Vulvar varicose veins





Origin of vulvar varicose veins

Vulvar varices are expression of the exteriorization of a pelvic venous trunk via a leak point

Origin of vulvar varicose veins

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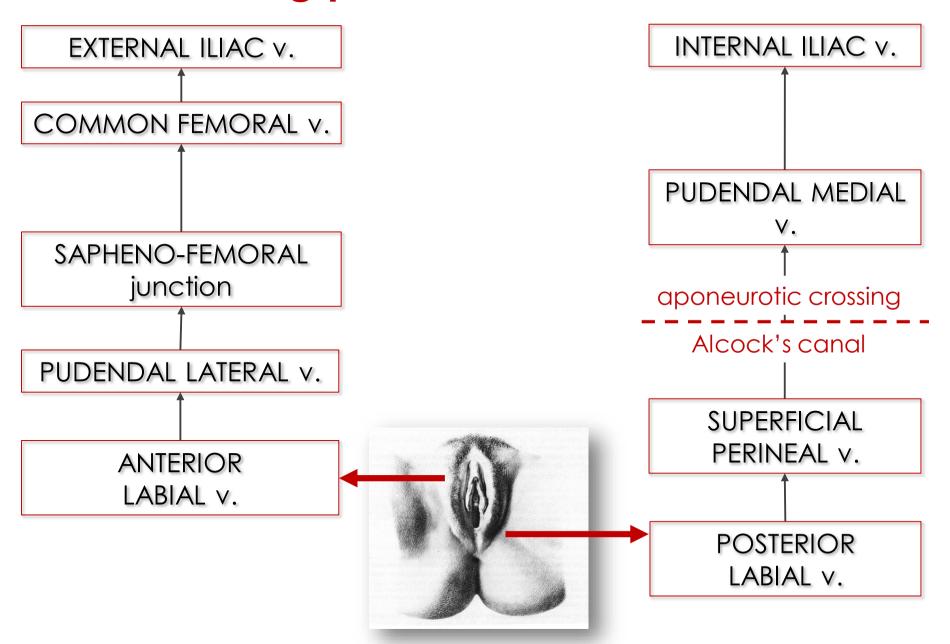
2 main leak points involved in vulvar varicose veins:

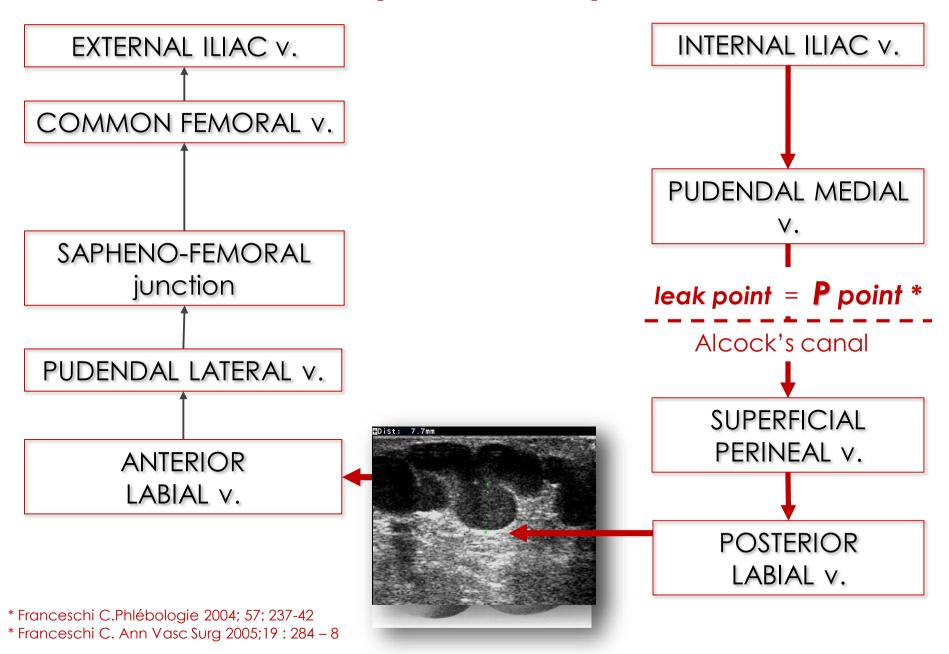
- P point (perineal)
- I point (inguinal)

Leak point

= reverse flow in an anatomical drainage pathway

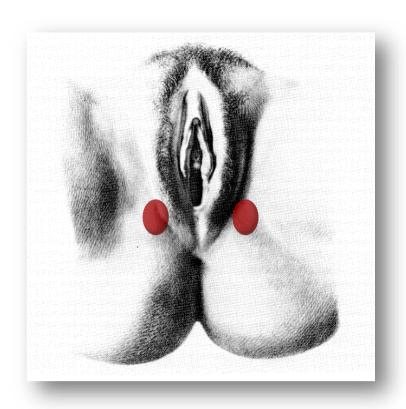
Draining path = Alcock's canal





- examination position
 - decubitus
 - orthostatism

- examination position
 - decubitus
 - orthostatism
- location
- = 3/4 posterior of the vulva



- ultrasound semiology
- ischio-pubic branch
- superficial aponeurosis of the perineum
- above aponeurosis : external concavity

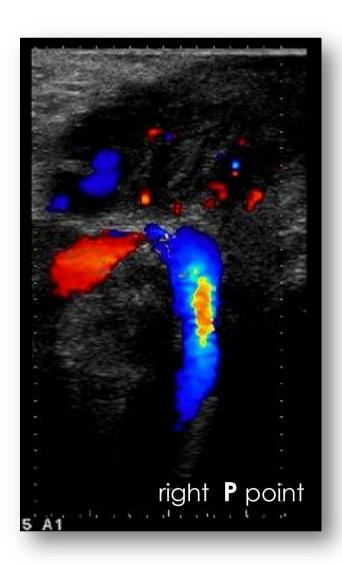






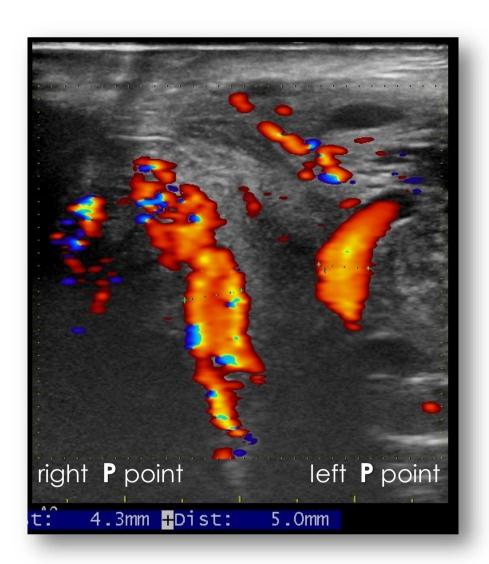


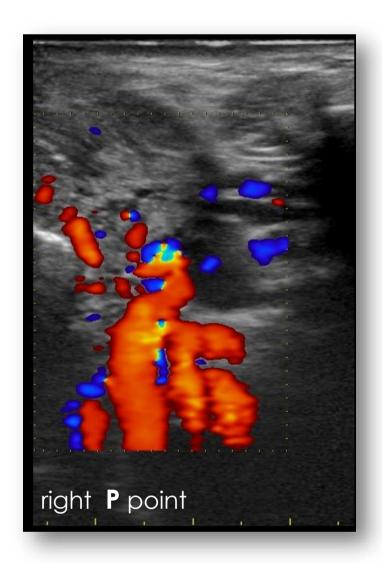




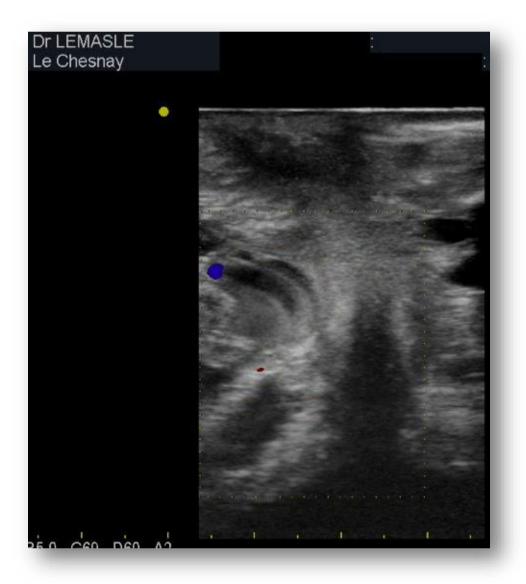


troncular form





pluri-troncular or plexiforme forms

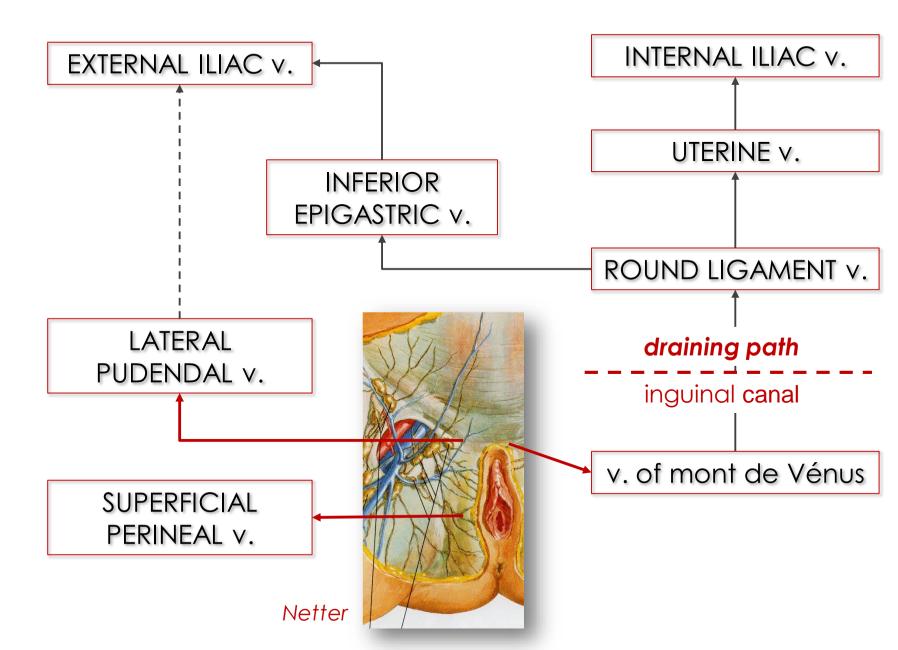


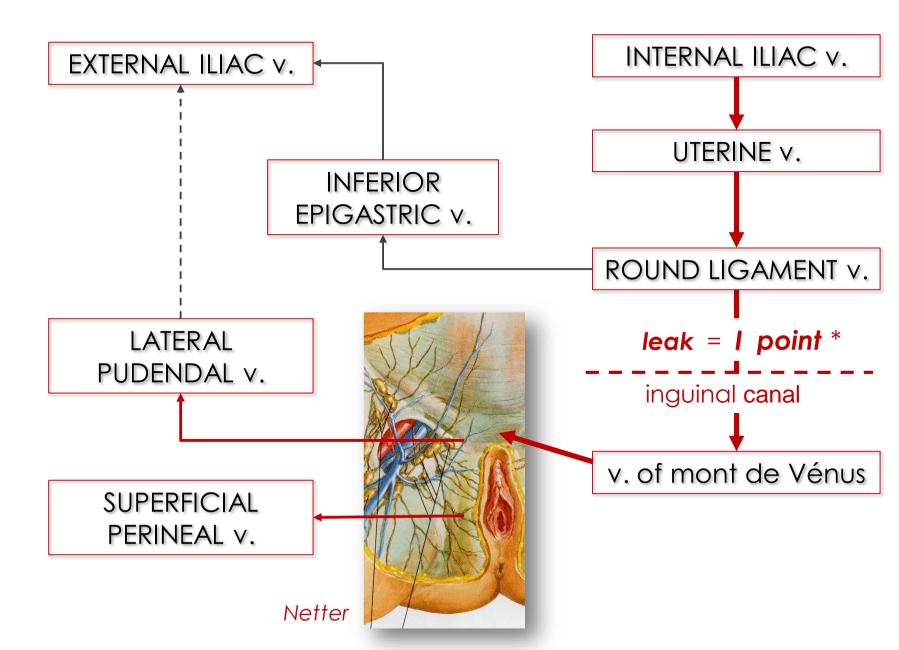
left vulvar varices fed by a right P point

 a P point always exteriorizes a reflux of the medial pudendal vein

- but the origin of reflux can be:
 - the proximal trunk
 - the distal trunk
 - tributaries located in Alcock's canal

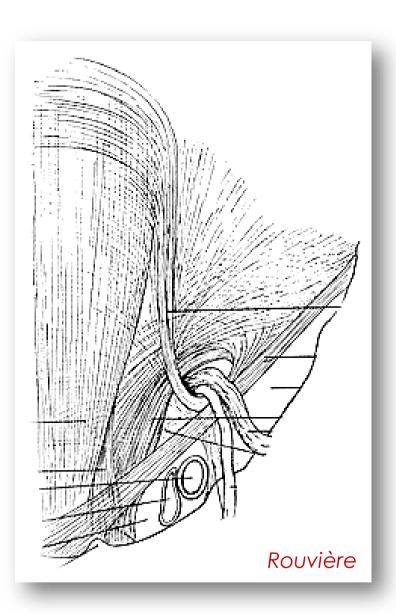
Draining path - inguinal canal





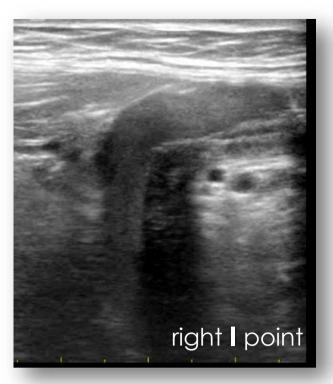
- examination position
 - decubitus
 - orthostatism

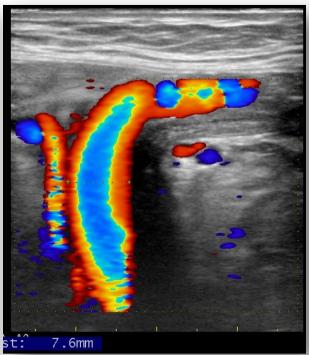
- examination position
 - decubitus
 - orthostatism
- location
- = external orifice of the inguinal canal
 - above of the inguinal canal
 - outside femoral vessels



- ultrasound semiology
- outside femoral vessels
- internal concavity
- sus-inguinal dystrophic venous network
 - = pathognomonic



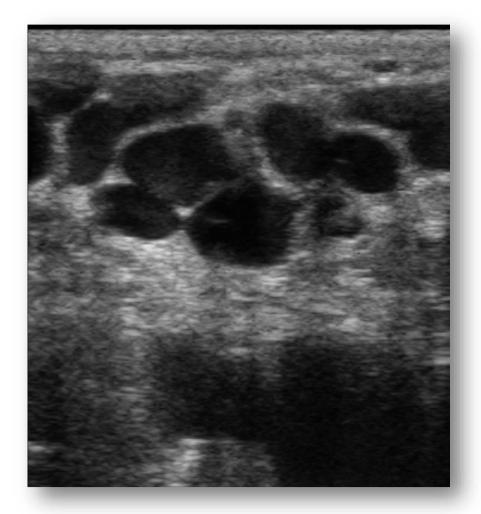






sus-inguinal dystrophic venous network





dystrophic venous network located above the inguinal ligament









 I point is linked to a homolateral parametrial varicosis,

fed by reno-ovarian and / or uterine reflux

duplex-scan sufficient?

duplex-scan sufficient?

YES

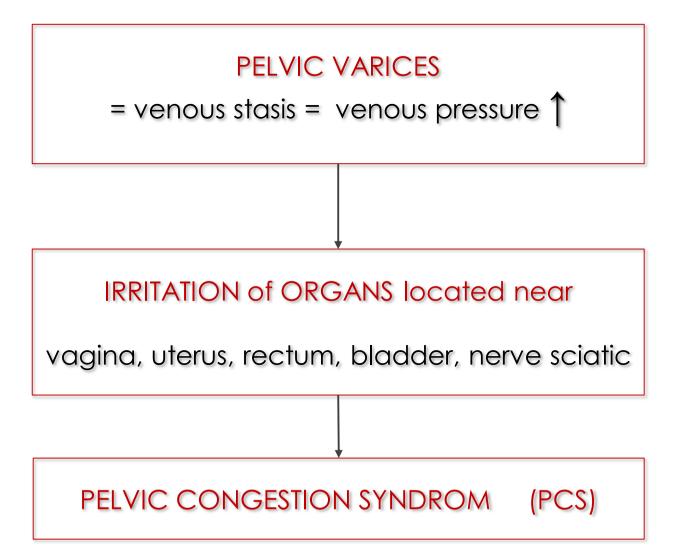
- because these leak points are superficial
- >> no technical limitation
- >> it is enough to know them!

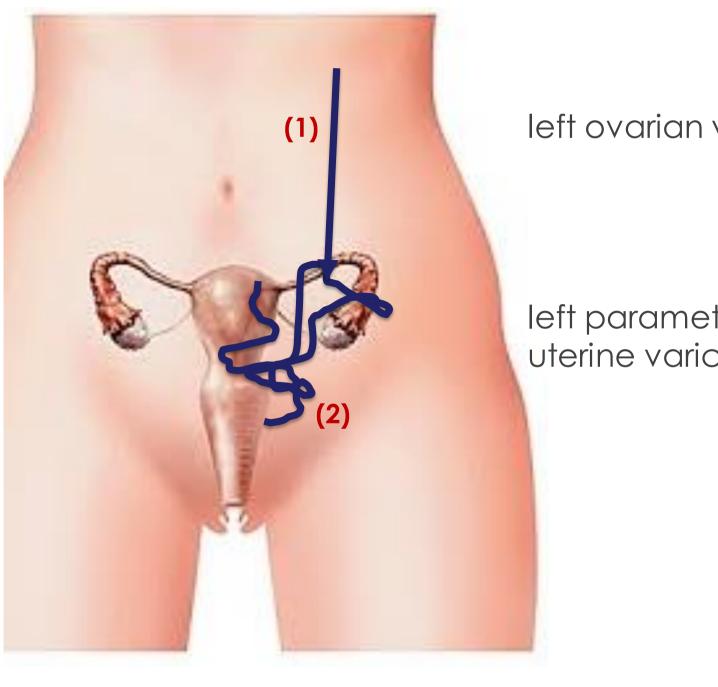
... thanks to Claude FRANCESCHI





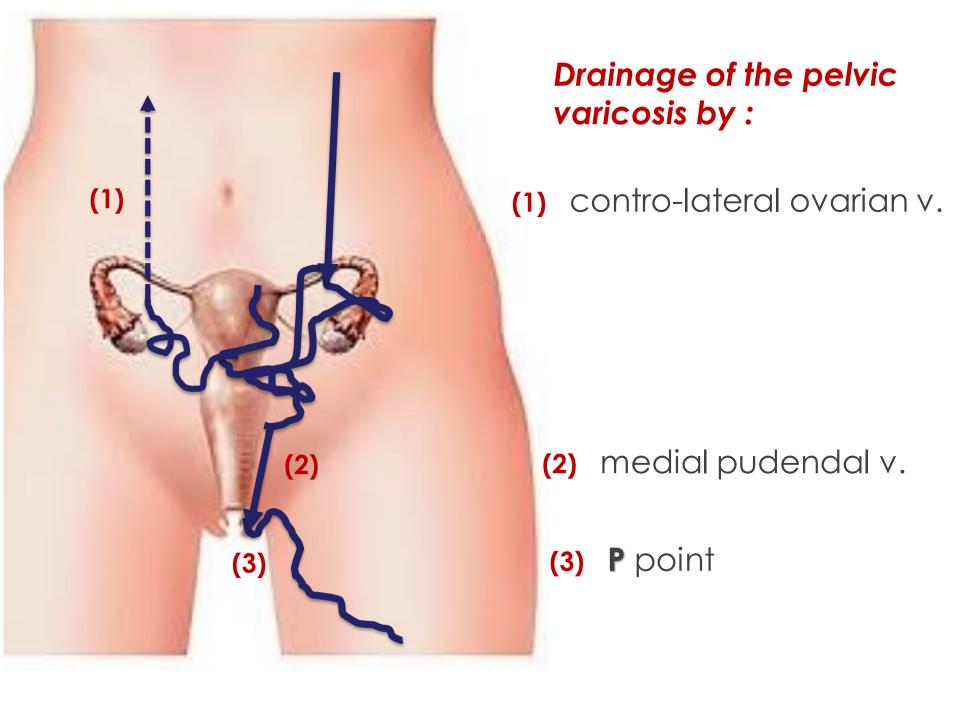
Pathogenesis of pelvic congestion syndrom

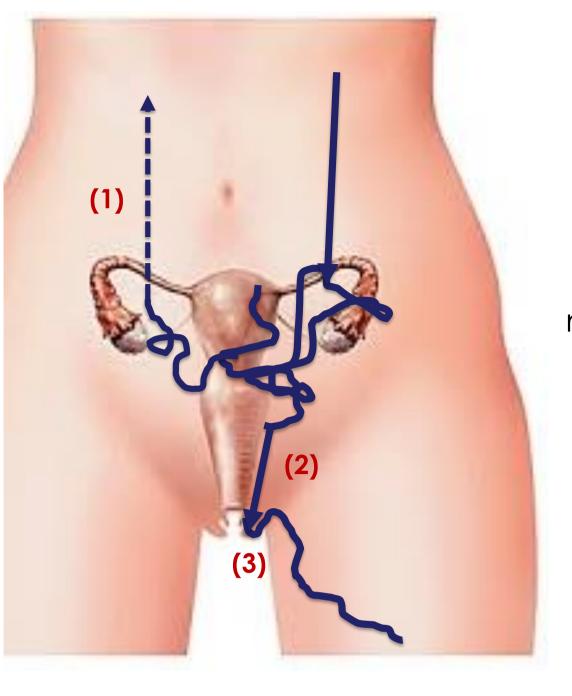




left ovarian vein reflux (1)

left parametrial & lateral uterine varicose (2)

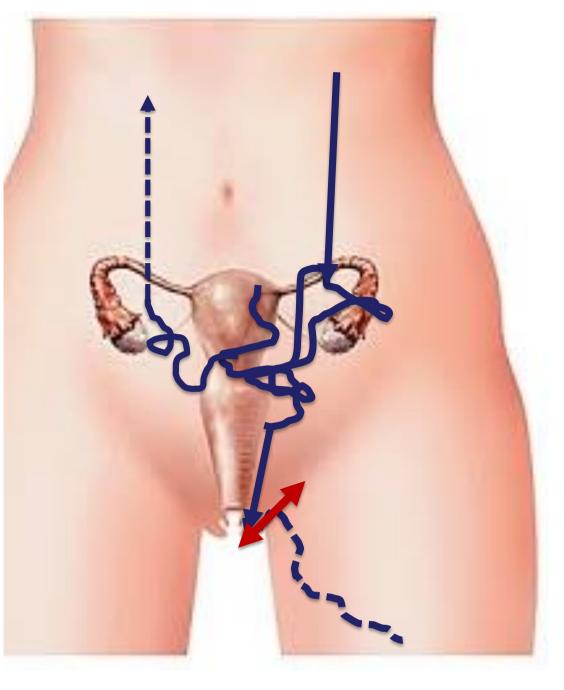




well drained pelvic varicose

normal venous pressure

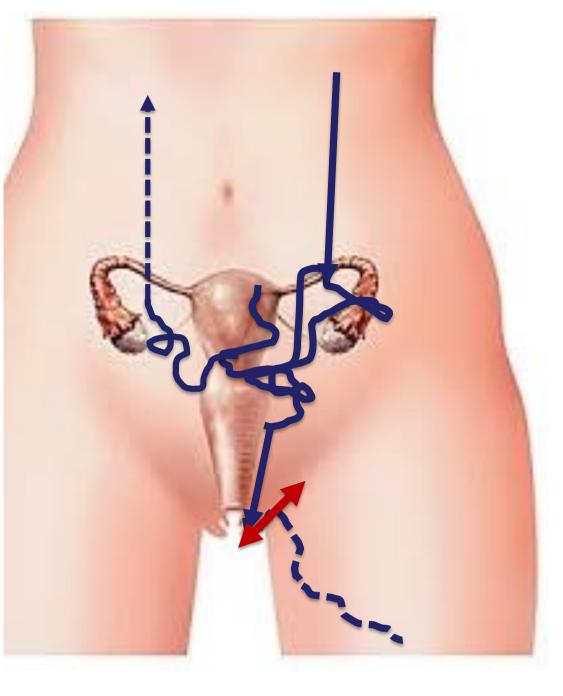
no PCS



Isolated closure of an <u>effective</u> leak point

lower limbs level:

↓ varices



Isolated closure of an effective leak point

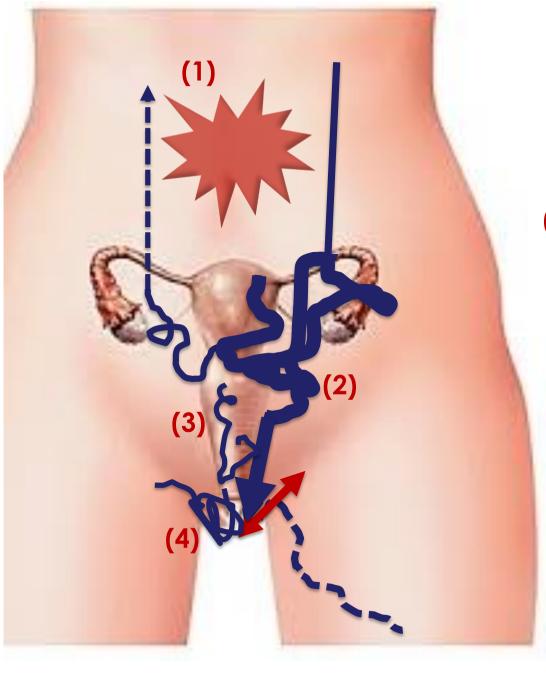
pelvic level:

venous drainage ↓

venous pressure ↑

lower limbs level:

↓ varices



Risks ??

- (1) pelvic congestion syndrom
- (2) pelvic varices ↑
- (3) vaginal varices
- (4) varices of the labia major, vulva



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