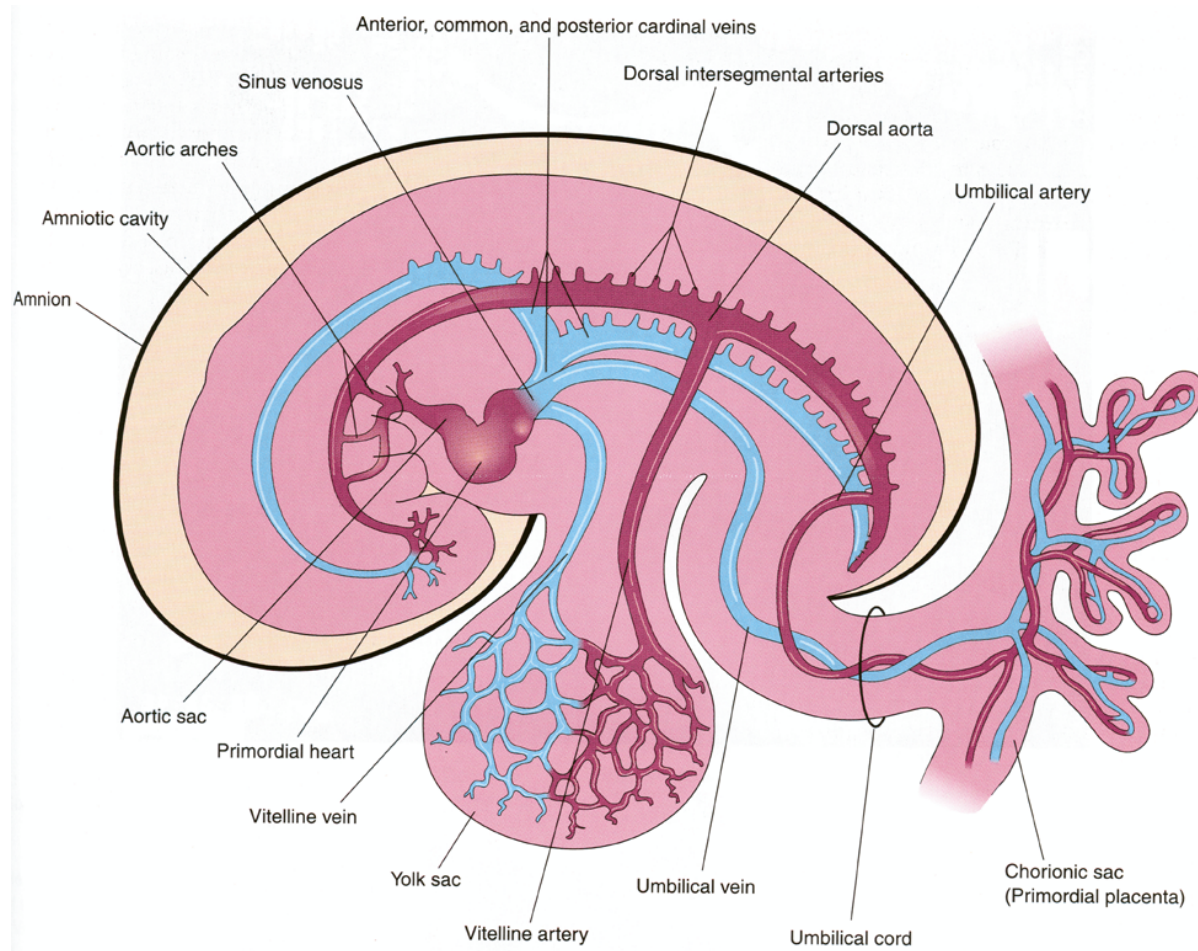
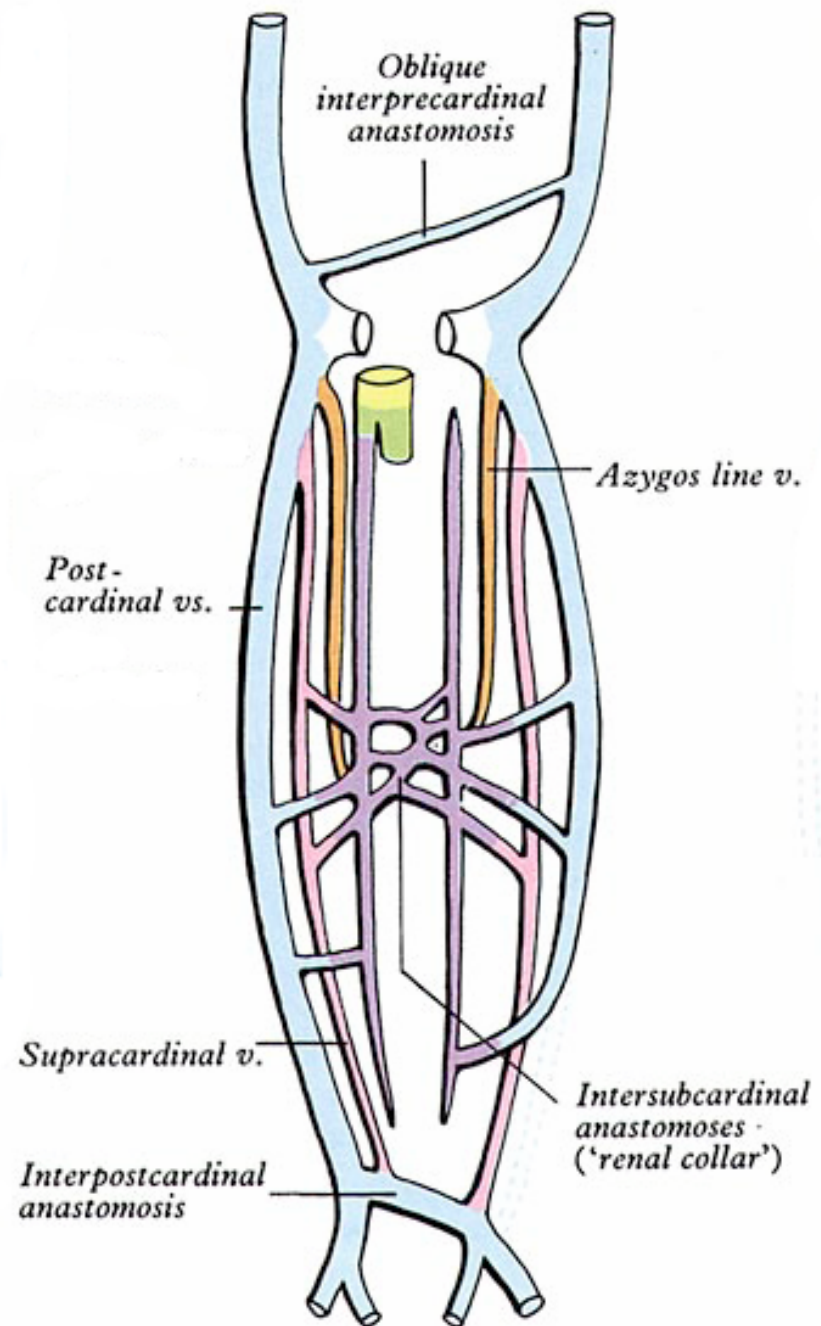
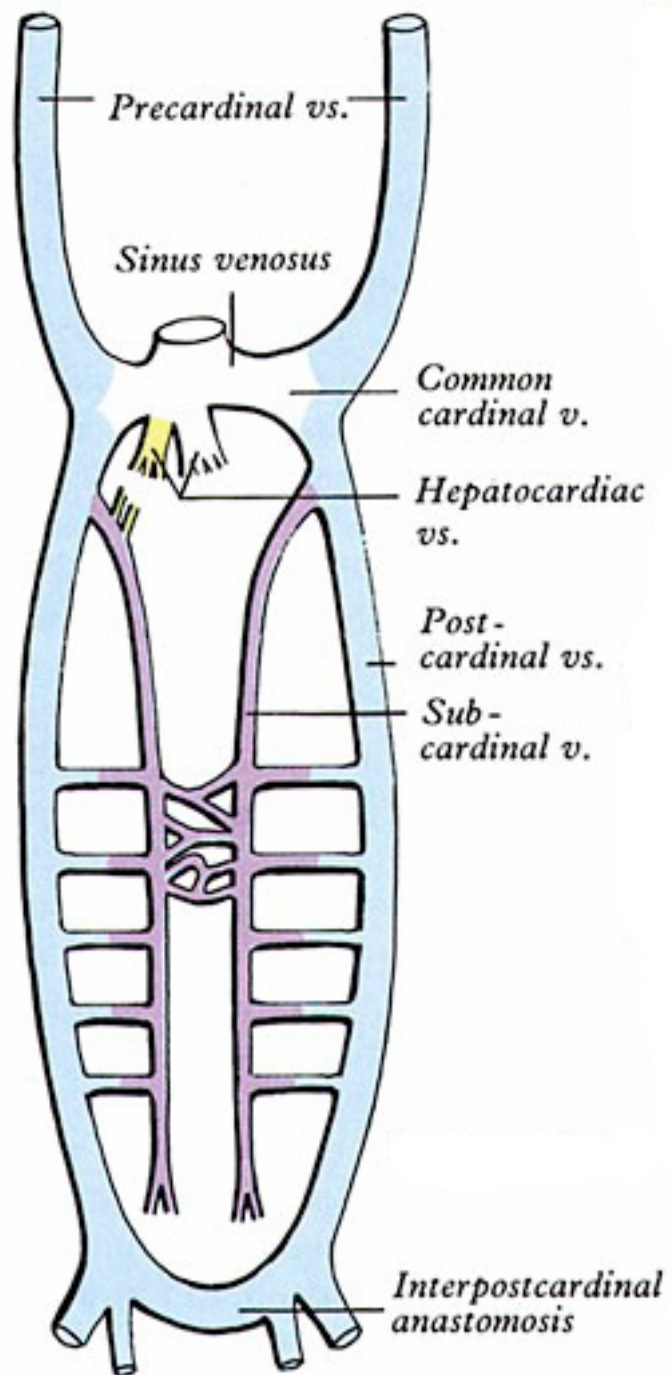
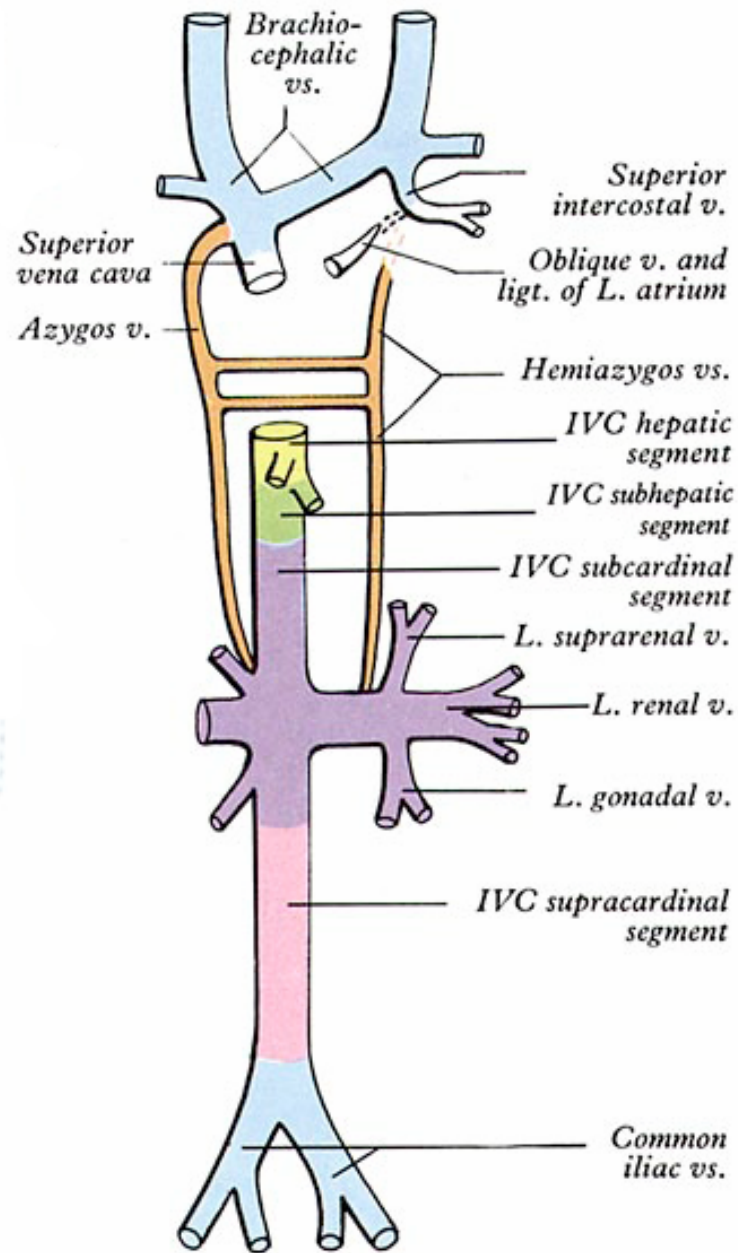
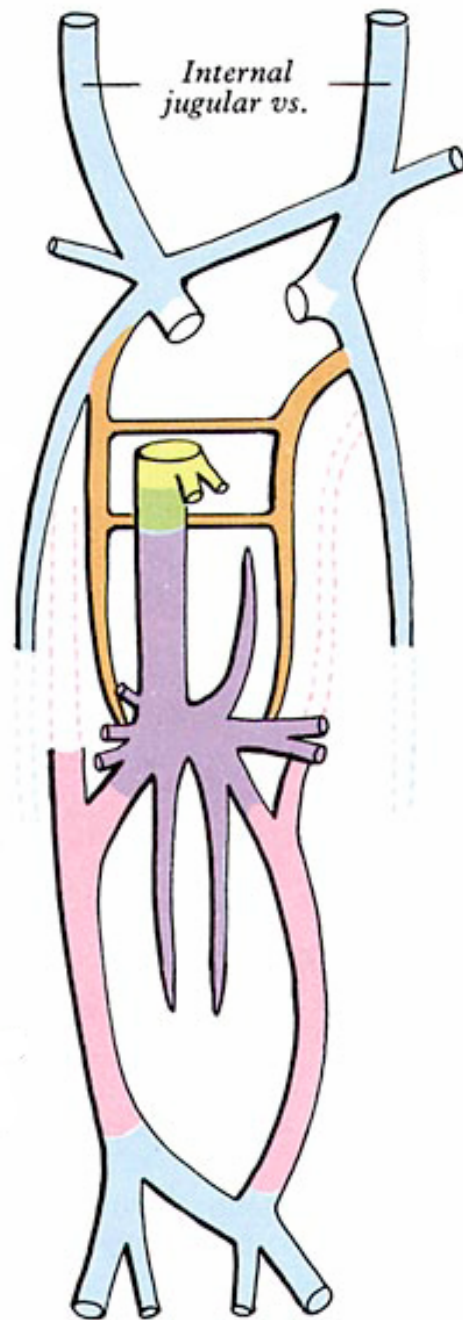




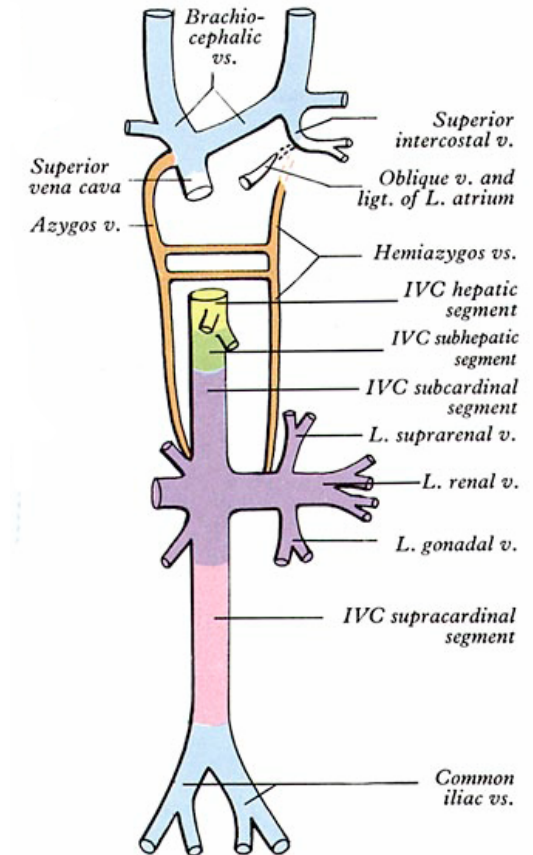


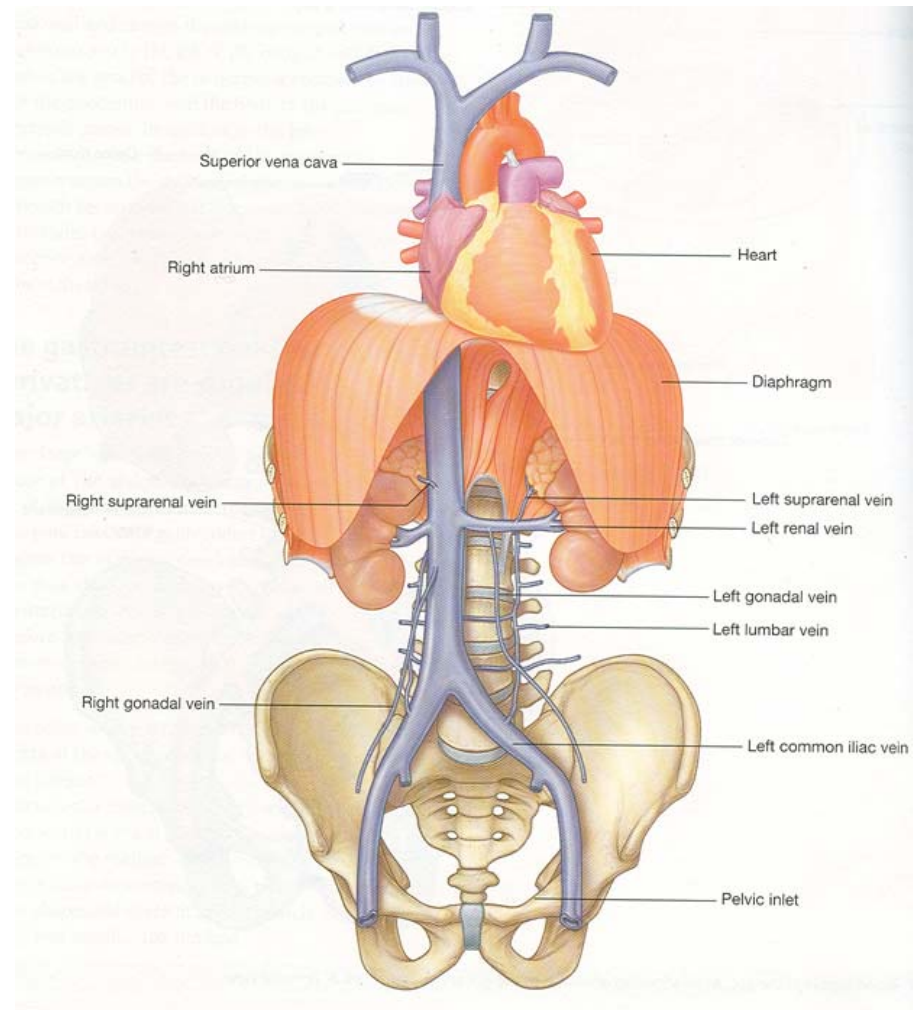


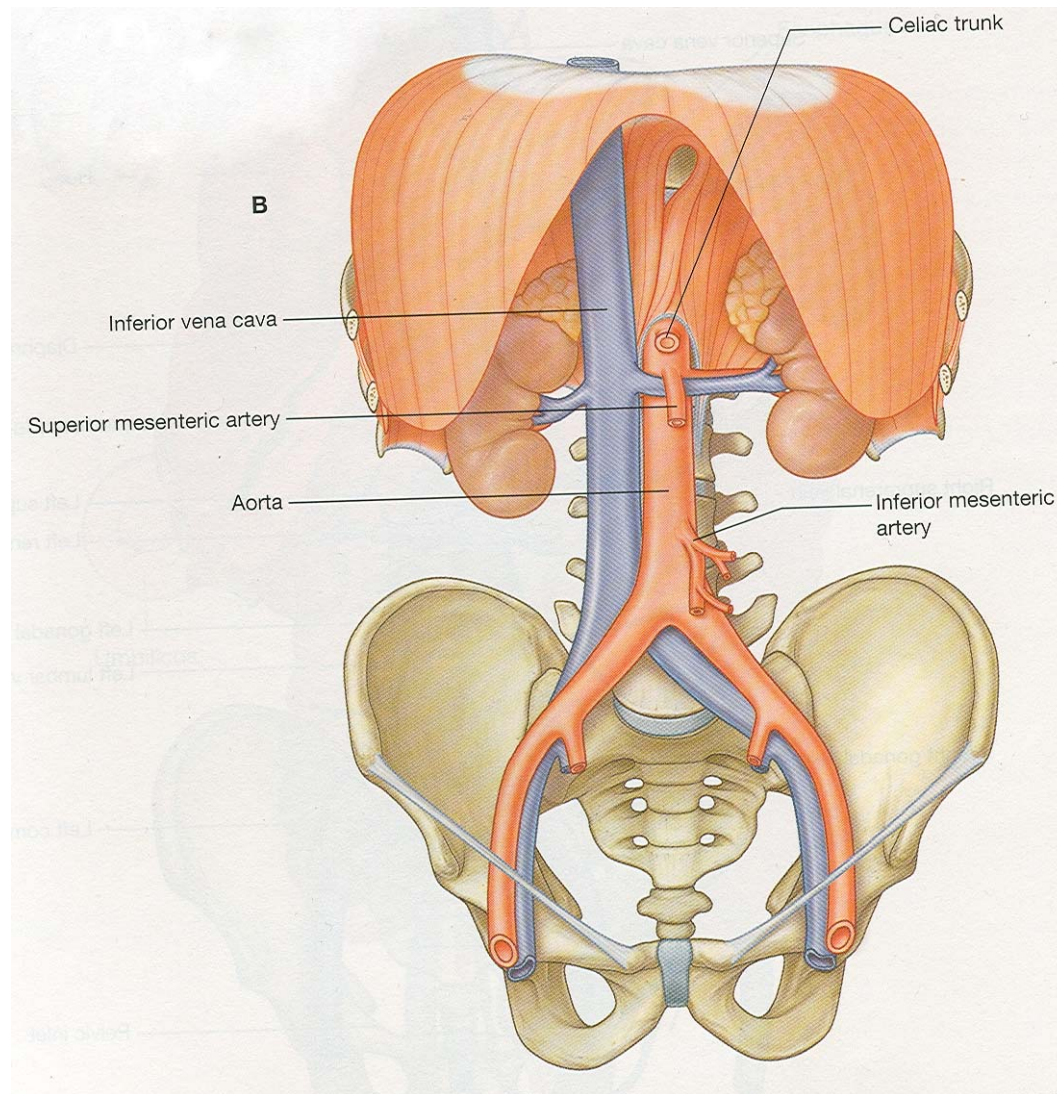
Development of Inferior vena cava

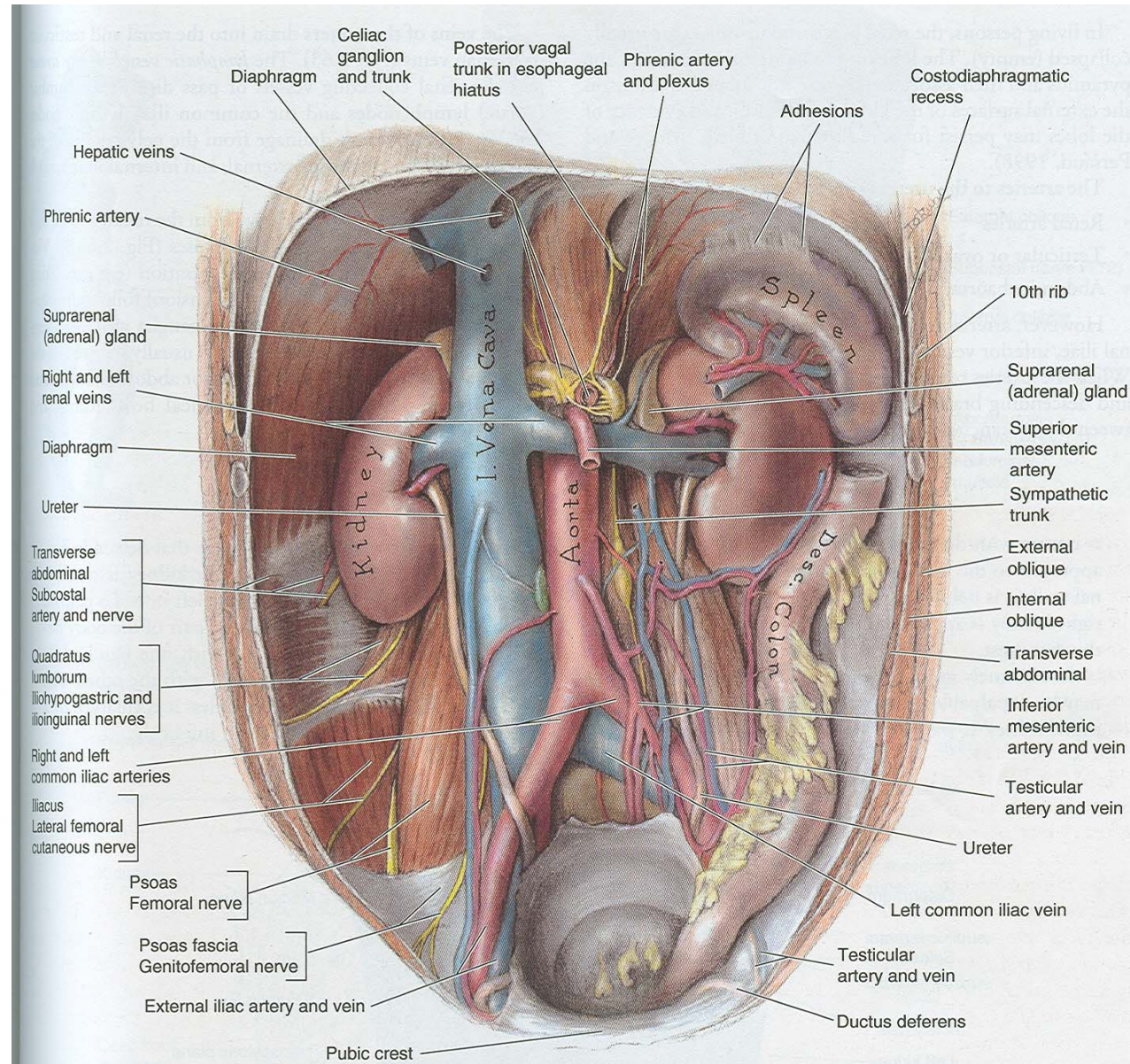
Inferior vena cava is formed, from below upwards by:

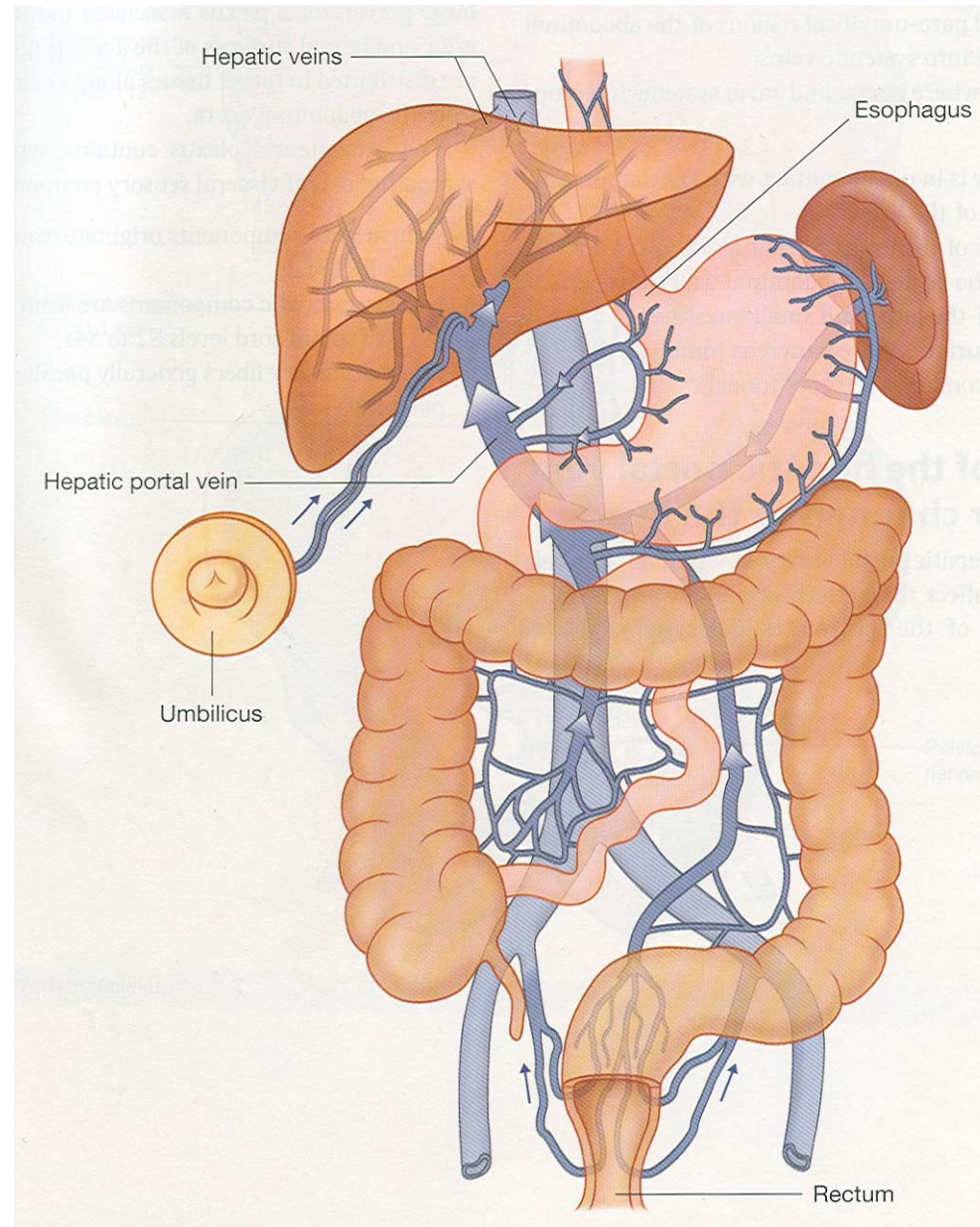
1. Begins by the **union of the two common iliac veins**,
2. **Right supracardinal**,
3. **Right supra-subcardinal anastomosis**,
4. **Right subcardinal**,
5. **New formation** (hepatic segment)
and
6. **Hepatocardiac channel** (terminal part of right vitelline vein).

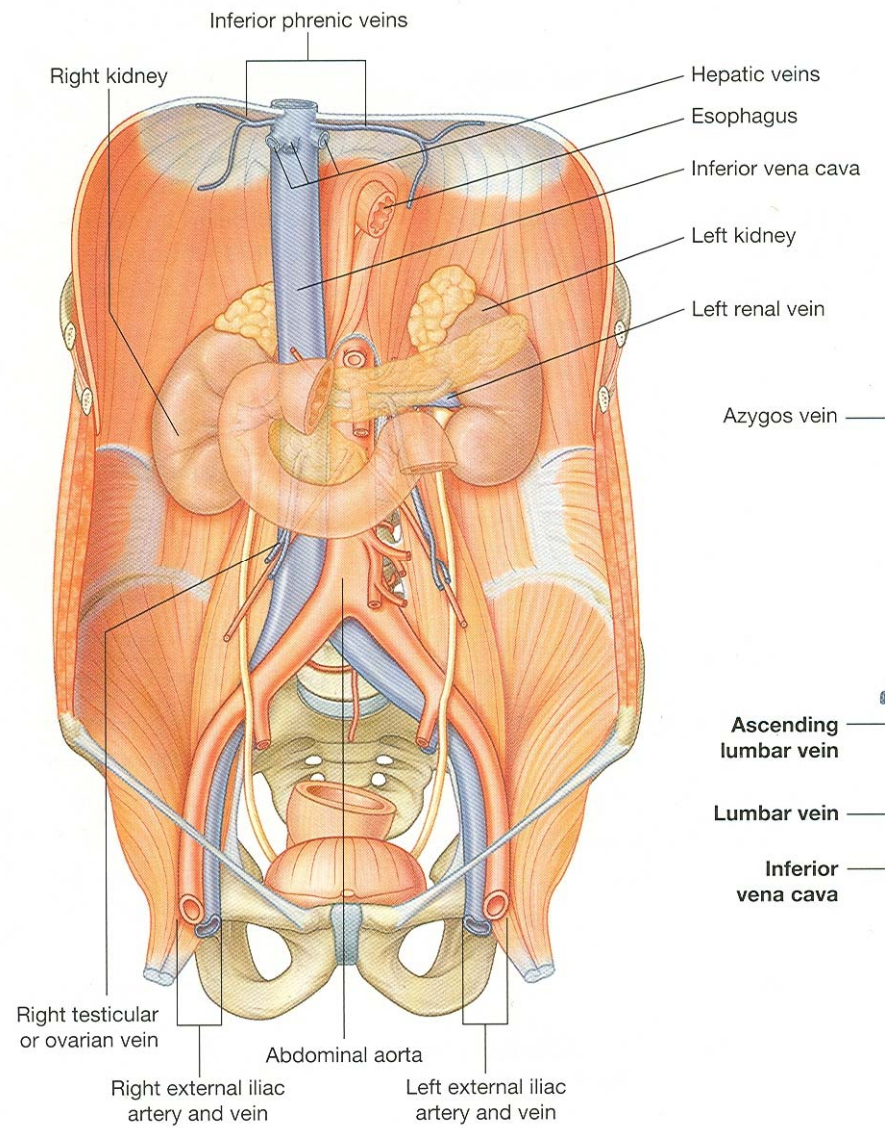








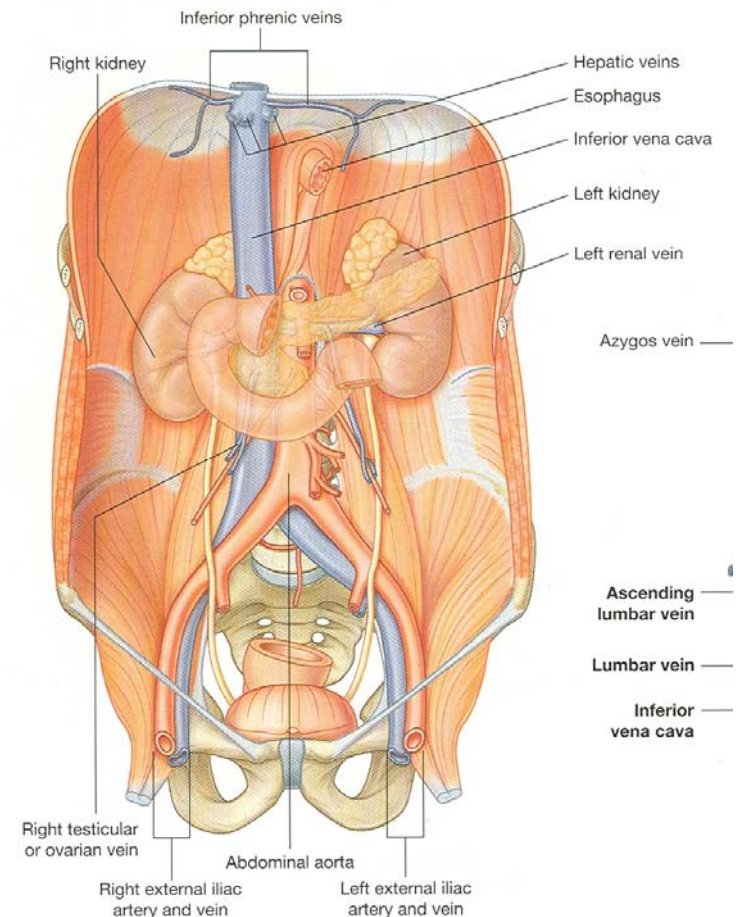




Relations

Anterior:

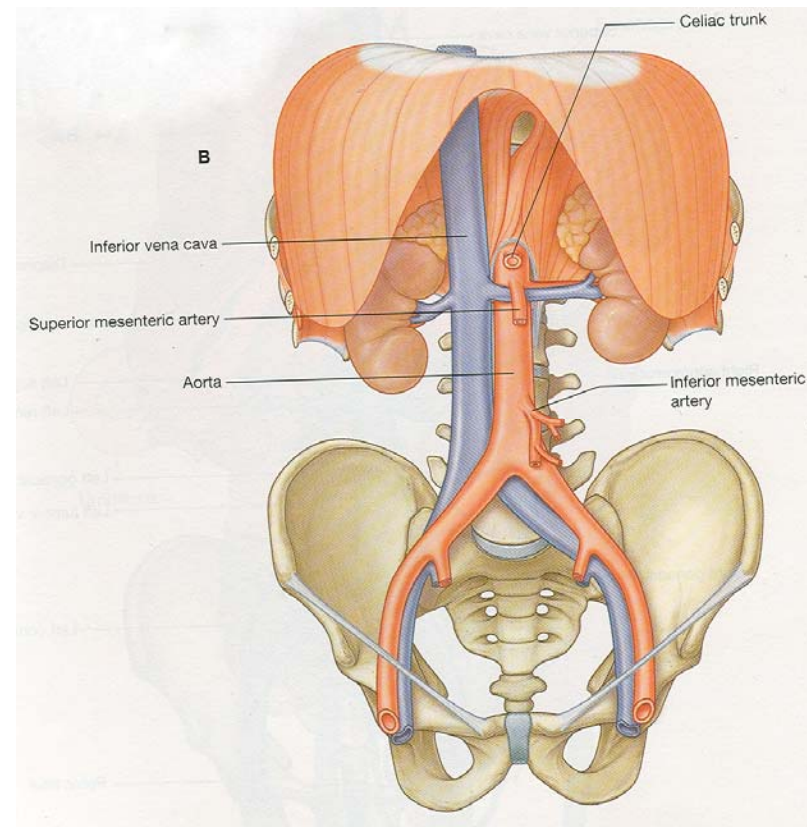
- Right common iliac a.
- Posterior parietal peritoneum
- Crossed by root of mesentery
- Right gonadal a.
- 3rd part of duodenum
- Head of pancreas
- 1st part of duodenum
- Posterior wall of epiploic foramen
- Liver.



Relations

Posterior

- L 3, 4, 5 vertebrae
- Right psoas major
- Right sympathetic trunk
- Right lumbar veins
- Right crus of diaphragm
- Medial part of right suprarenal
- Right renal, suprarenal, inferior phrenic a.



Relations

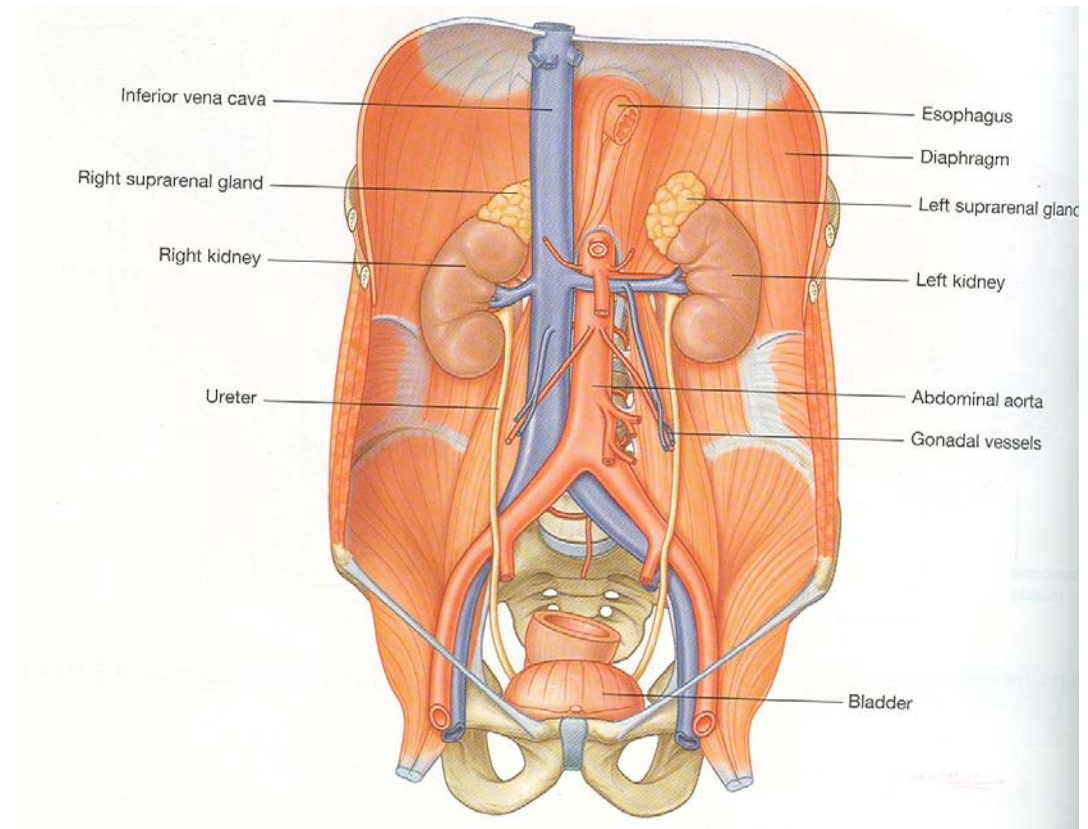
Lateral:

Right:

- Right ureter
- 2nd part of duodenum
- Right kidney
- Right lobe of liver

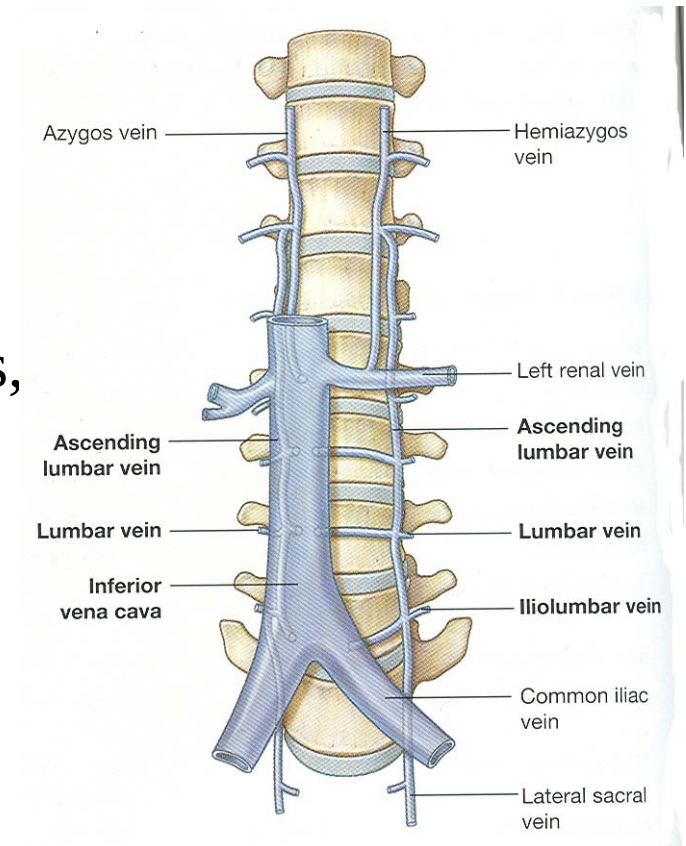
Left:

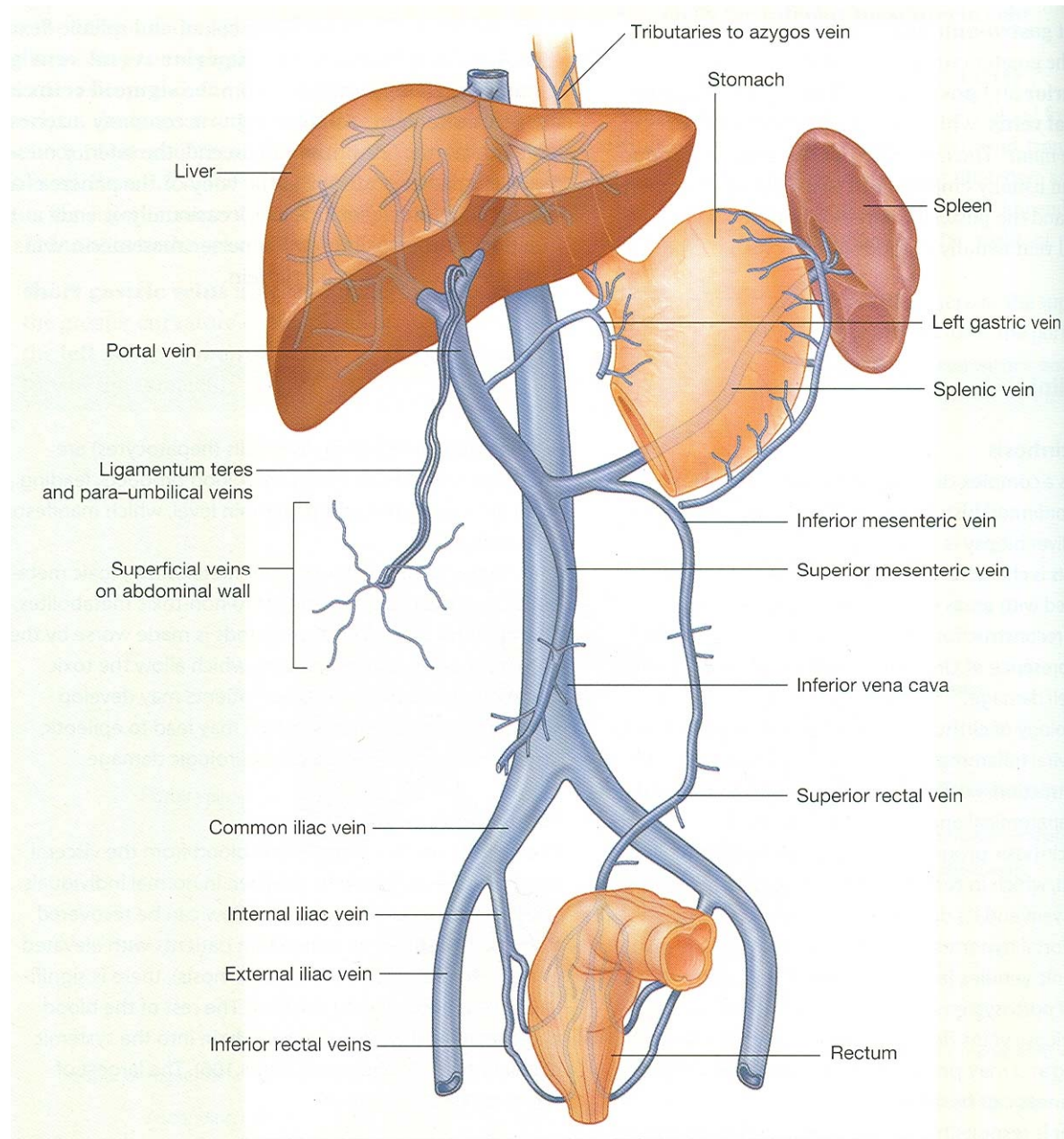
- Right crus of diaphragm
- Caudate lobe
- Aorta



Tributaries

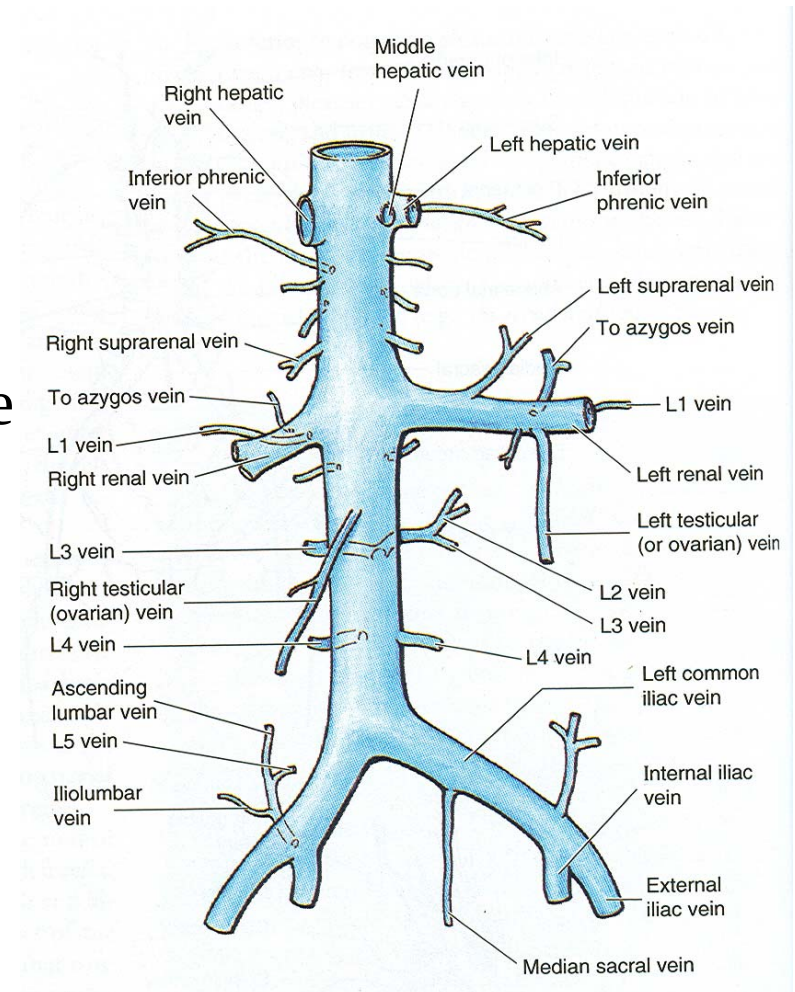
- Lumbar – 4 pairs
- Ascending lumbar
- Right gonadal
 - Testicular: from pampiniform plexus, drains testis, epididymis joins IVC at an acute angle
 - Ovarian : from ovarian plexus





Tributaries

- Renal : open at right angle
Right – 2.5 cm
Left – 7.5 cm;
receives left gonadal,
left suprarenal and some
times inferior phrenic
- Right suprarenal
- Inferior phrenic
- Hepatic: sinusoids → intra lobular
→ sub-lobular → hepatic;
in two groups: upper & lower
No valves



Congenital Anomalies

- Double IVC
- Left sided IVC
- Absence (of hepatic segment)

Applied Anatomy

In case of obstruction/ligation, collateral venous channels enlarge:

- Lumbar vein → ascending lumbar → azygos
- Inferior epigastric v. → superior epigastric → internal thoracic
- Thoracoepigastric v. :

Superficial epigastric/superficial circumflex iliac → lateral thoracic v. → axillary v.