

HYPERTENSION

1. What are the first line medications for hypertension in pregnant mothers? Can you use calcium channel blockers?
2. Of all the complications from hypertension, what is the most common?
3. For a patient with chronic hypertension who has a hypertensive emergency, what is the recommended sBP to get the patient to?
4. With retinal changes in hypertension (AV nicking, cotton wool spots, papilledema), can they be reversed with successful treatment and maintenance of anti-hypertensive medication?
5. With hypertensive *urgency*, what are the first line drugs?

RENAL

1. What causes the pruritus seen in Chronic Kidney disease?
2. Patients who are on dialysis, is it recommended to supplement with EPO and vitamin D?
3. How does the peritoneal dialysis work? Infuse dialysate but what next?
4. Is hemodialysis always chosen first? Or what are the indications to do a peritoneal?

ANEMIA

1. For β -Thalassemia, how often are transfusions given for Thalassemia major?
2. For α -Thalassemia, how often are transfusions given for Hb H disease?
3. What is the gold standard for diagnosis for the β -Thalassemias? Electrophoresis or peripheral blood smear?
4. What is the gold standard for diagnosis for the α -Thalassemia.
5. Is a splenectomy helpful in patients with β -Thalassemias?

Anemia

What is the mechanism of sideroblastic anemia?

- What is protoporphyrin and how is it 'broken'?
- Are there both congenital and acquired deficiencies in this enzyme?
- What is the actual mechanism of iron incorporation onto heme?
- How do ringed sideroblasts form and what are they specifically?
- By what mechanisms can you acquire sideroblastic anemia?
- Is porphyria a form of sideroblastic anemia?
 - Isn't it a defect in Heme synthesis? So wouldn't it cause the same problem?
- What about defects in globin chain synthesis – How does that differ from heme defects?
 - Can you explain the difference between qualitative and quantitative globin chain synthesis defects?
 - Does sickle cell disease fit into a category of sideroblastic anemia?

Is HTN usually the first sign of Polycystic kidney disease ?

- What is the mechanism by which this causes HTN?

Can you explain 'casts' to us?

- Fatty casts – nephrotic syndrome
- WBC Renal parenchymal disease
- RBC
- Hyaline casts prerenal failure
- Muddy brown casts – Acute Tubular Necrosis (epithelial cells?)

Are the risk factors for Renovascular HTN the same as for general HTN?

Besides atherosclerosis, are there any other common causes of renovascular HTN or are they pretty rare outside of atherosclerosis? I've heard of fibromuscular dysplasia causing the condition in women, I just didn't know how often you see that.

Anemia questions

What is ferritin and why is the reading of ferritin different from transferrin?

New iron deficiency anemia in elderly people due to usually and how can you check?

What are some ways to differentiate beta-Thal from iron deficiency anemia?

What is the purpose of EPO in anemia treatment and when can it be used?

Hypertension questions

What indications are there and what tests should be ordered when hypertension is initially seen for a possible secondary hypertension?

Peritoneal dialysis?

Fibromuscular dysplasia of the renal artery . Presentation? (ameurosis fugax) Tx?