8 Complications of Renal Failure

• <u>Hypocalcemia</u>

- Kidneys transform 25-hydroxy-vitamin D into 1,25-dihydroxy-vitamin D (the more active form of Vitamin D)
 - Vitamin D is needed to absorb calcium from the GI system

• Renal osteodystrophy

 due to secondary hyperparathyroidism (removes calcium from the bones)

• Bleeding risk

• Platelets have difficulty degranulating in the presence of uremia

• **Hypertension**

• Anemia

- Loss of erythropoietin production (normocytic normochromic anemia)
 - ACE inhibitors and hyperparathyroidism also block the effect of erythropoietin
- Pruritis due to urea accumulation in the skin

• Atherosclerosis

- WBCs don't function normally with uremia
 - WBCs help to prevent lipid accumulation in arteries

• Infection

o neutrophils have difficulty degranulating in the presence of uremia

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