

URI-205 (GD)
1st Lecture (Diuretics)

Case I

1. A patient of congestive heart failure was being treated with furosemide and digoxin. He developed urinary tract infection.

1. What antimicrobials should be avoided?

2. Why may Furosemide precipitate digoxin toxicity?

3. What are the expected adverse effects of furosemide that may occur in this case?

4. What are other therapeutic uses of furosemide ?

Case II

A 50-year-old man has a history of frequent episodes of renal colic with calcium-containing renal stones. A careful workup indicates that he has a defect in proximal tubular calcium reabsorption, which results in high concentrations of calcium salts in the tubular urine.

1. What is the most useful diuretic agent in the treatment of recurrent calcium stones?

2. What are the expected adverse effects of the diuretic chosen in Q1 that may occur in this case?

3. What are other therapeutic uses of the diuretic chosen in Q1 ?

Case III

A 62-year-old man with advanced prostate cancer is admitted to the emergency department with mental obtundation. An electrolyte panel shows a serum calcium of 16.5 (normal 8.5–10.5 mg/dL).

- What is the diuretic therapy that would be most useful in the management of severe hypercalcemia?*
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Case IV

A graduate student is planning to make a high-altitude climb in South America while on vacation. He will not have time to acclimate slowly to altitude.

- What is the useful drug in preventing high-altitude sickness?*
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