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QUESTION 1

If a patient takes 0.5mg of intravenous hydromorphone every 4hrs what would be the equivalent orals total daily dose? Hydromorphone oral to parenteral ratio 7.5:1.5.

- A. 15mg
- B. 20mg
- C. 10mg
- D. 5mg
- E. 7.5mg

Correct Answer: A

To determine the dose conversion IV to PO, the ratio of PO to IV needs to be determined, this is $7.5 / 1.5$ which is 5. This number means that the PO dose is 5 times more than the IV dose to get the same amount of drug into the bloodstream. If the patient is taking 0.5 mg IV then the PO dose would be 0.5 mg multiplied by 5, which is 2.5 mg. Since the patient is taking the medication every 4 hours the patient is receiving 6 doses, $24\text{hrs}/4\text{hrs} = 6$. Since the patient is receiving 2.5 mg every dose and is receiving 6 doses a day, the patient is receiving 15 mg, 2.5 mg multiplied by 6 doses.

QUESTION 2

JK is a 67 years old African American man who presents to your clinic for his blood pressure management. His past medical history includes Peptic ulcer disease and hypertension. His two BP readings are 160/98, 159/96 and HR 85. He says he has been adherent to his medication and lifestyle. He currently takes 12.5mg Chlorthalidone and Prilosec 20mg daily.

Which of the following is the best strategy to manage his blood pressure?

- A. Increase chlorthalidone to 25mg daily
- B. Add Norvasc 2.5 daily
- C. Add Lisinopril 5mg daily
- D. Add hydrochlorothiazide 25mg daily
- E. Add Lisinopril 20mg daily

Correct Answer: B

As the patient is over the age of 60 and he does not have CKD or diabetes, his goal BP should be SBP andlt; 150 mmHg or DBP andlt; 90 mmHg, and he is not currently at this goal with his medication regimen. Options are to maximize the current medication dosage (option A), or to add a second agent. Since calcium channel blockers like Norvasc are recommended as initial treatment options in African Americans, choosing Norvasc over lisinopril would probably be the more effective option.

Reference: <http://jamanetwork.com/journals/jama/fullarticle/1791497>



QUESTION 3

Which of the following antidiabetic medication works by inhibiting carbohydrate breakdown?

- A. Acarbose
- B. Metformin
- C. Dapagliflozin
- D. Pioglitazone
- E. Sitagliptin

Correct Answer: A

Acarbose is an alpha glucosidase inhibitor that inhibits carbohydrate breakdown. Metformin is a biguanide that decreases hepatic glucose production. Dapagliflozin is a SGLT2 inhibitor to decrease glucose reabsorption in the kidney. Pioglitazone is a TZD that increases insulin sensitivity. Sitagliptin is a DPP-4 inhibitor that works on incretins/increase insulin secretion/decrease glucagon secretion.

QUESTION 4

You prescribe doxepin to a 37-year-old woman to treat neurotic excoriations on her arms. The patient is concerned about the side effects of this drug. Which of the following is not a side effect of doxepin:

- A. Xerostomia
- B. Liver toxicity
- C. Somnolence
- D. Urinary retention
- E. Constipation

Correct Answer: B

A,C,D,E ?False ?Doxepin is a tricyclic antidepressant with H1 and H2 antihistamine activity. Side effects include sedation and anticholinergic effects (dry mouth, urinary retention, and constipation). Although extensively metabolized by the liver and excreted by the kidney, liver toxicity is very rare. Nephrotoxicity, on the other hand, is a well-known serious adverse effect of long term doxepin use.

QUESTION 5

A physician orders Dopamine 5 mcg/kg/min. The concentration of the Dopamine IV bag is 400 mg in 250 D5W. The patient's weight is 168 lbs. Calculate the infusion rate in mL/hr.

- A. 10.2mL/hr
- B. 5.2mL/hr



C. 14.29mls/hr

D. 22.4mls/hr

E. 0.17mls/hr

Correct Answer: C

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