Drug interactions dr.shbair

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Drug Interactions Final Exam 2015/2016

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Fifth year students Date: 22/06/2016 Time: 120 minutes Total marks: /100

Answer the following questions:
Part 1: Place True (T) infront of the correct statement and place False (F) infront of the wrong statement. Correct the Wrong statement. 1. Most of the important drug interactions with NSAIDs are pharmacodynamic interactions.
2. Some epidemiological studies have shown that all NSAIDs reduce the cardioprotective effects of low-dose aspirin.
3. If the combination of an SSRIs and NSAID cannot be avoided, reduction of the dose of the NSAID should be considered.

- 5. An inhibitor of CYP2C19 is likely to increase the concentration of the Swarfarin enantiomer and enhance the anticoagulant effect.
- The interaction between warfarin and cimetidine is selective because cimetidine exhibits a degree of specificity for CYP1A2 and CYP2C9.
- 7. Rosnvastatin shows a dose-related increase in warfarin effects which is due to an increase in R- or S- warfarin effect.
- 8. No clinically important drug interaction occurs between digoxin and ACEIs in patients with normal renal function.
- P-glycoprotein inhibition bycarvedilol enhances the intestinal absorption by digoxin but doesn't affect its renal function.
- Macrolide antibacterials exert their effects on CYP1A2, whereas many quinolones inhibit CYP3A4.

Part 2: Answer the following questions: 1."It is difficult to get a thoroughly reliable indication of how multiple antibacterial drugs will behave together in clinical practice". Explain?

2. Give the risk factors for the interaction of quinolones and NSAIDs?

3. "When patients taking low-dose aspirin for cardioprotection require longterm NSAIDs for inflammatory conditions, the use of a coxib was suggested".

4:"It is particularly difficult to attribute a change in INR specifically to a drug interaction in a single case report, and single case reports or few isolated reports for widely used drugs, do not prove that an interaction occurs". Explain?

5. How could you explain the age and gender differences seen in the interaction

Part 3: Give the clinical evidence (outcome), mechanism and management of the following drug interactions:

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1. Cefpodoxime proxetil and antacids.

2. Ciprofloxacin and ranitidine.

3. Azithromycin capsules and food.

4. Warfarin and grapefruit juice.

5. Digoxin and St.John's Wart.

& Levofloxacin and nitrofurantoin.

9. Gentamicin and ibuprofen.

6. Cefdinir and iron.

7. Digoxin and nifedipine.

18. Cefuroxime axetil and furosemide.

Part 4: Discuss the management of the following drug interactions. Explain your answer.

1. Clarithromycin + Co-amoxiclav + Aluminium/magnesium hydroxide antacid.

2. Digoxin +valsartan + omeprazole.

3. Warfarin + chlorothiazide + atorvastatin.

part 5: Discuss the role of the pharmacist in reducing or preventing drug

Good Luck!!!!!!!!!!

Dr. Mohammed Shbair

4. Co-trimoxazole + Azithromycin + fluconazole.

5. Diclofenae + Oral hormonal contraceptives + Ranitidine.