

PHC721 - CLINICAL PROBLEM SET # 7

Patient
Female, 60 years old
Chief Complaint
"My back tooth on the left started bothering me last week, so I have been taking Advil since. But the toothache did not go away, and I see blood when I brush my teeth. Last night, I noticed white stuff in the back of my mouth, but it is not painful."
Background and/or Patient History
Two-vessel coronary artery bypass graft 5 yrs ago Balloon angioplasty 2 yrs ago Idiopathic Hypertension Last visit with dentist was 3 years ago. Medications: Hydrochlorothiazide Ramipril Dabigatran (Pradaxa®) <i>until recently treated with Warfarin (Coumadin®)</i> Aspirin 81 mg ("baby aspirin")
Current Findings
Extensive endodontic damage of teeth #14 and #15. White lesions in the tonsillar pillar regions on both sides, consistent with the clinical presentation of <i>Candida</i> infection. Temp: 99.1 F BP: 145/90 mmHg HR: 75 bpm The patient receives a prescription for Fluconazole; the dentist is planning treatment for the next visit.

1. What considerations should the dentist take in preparation for dental surgery on this patient?
2. Should the dentist stop any of the prescription medications before the dental surgery? If so, which one(s) and why? If not, what would be the best alternative course of action?
3. If dental extractions needed to be completed during this first visit, would the patient-initiated treatment with Ibuprofen (Advil®) have any impact on the treatment plan and the potential outcomes?
4. Should an intraoperative hemorrhage occur, what options does the dentist have?
5. If the patient is treated with Warfarin, what tests and their results would assure an acceptable risk of bleeding during dental procedures?
6. In a Warfarin-treated patient, how would the risk of intraoperative bleeding be affected by:
 - A. Fluconazole, an antifungal agent, known to strongly inhibit CYP2C9?;
 - B. a drug that induces CYP2C9?;
 - C. a drug that competes with Warfarin for CYP2C9?
 - D. a drug that is highly bound to plasma proteins?
 - E. hypoalbuminemia?
 - F. Vitamin K-enriched diet (e.g., green leafy vegetables)?