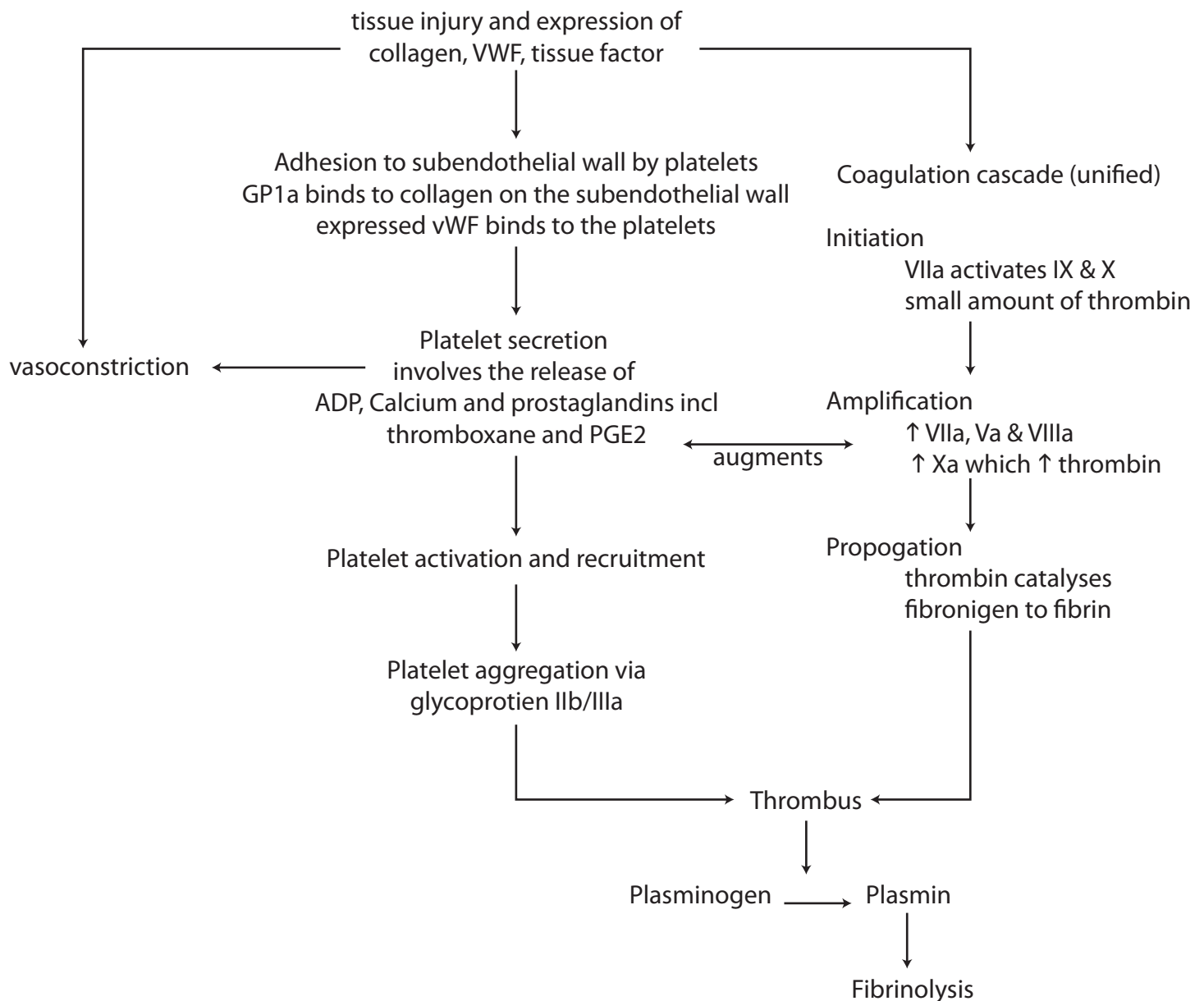


March 2011  
QUESTION 17

Outline the physiological processes that occur in a blood vessel after venipuncture (80% of marks). How are these altered by the administration of aspirin (20% of marks)?

### Standard clotting



### Aspirin

inhibits cyclooxygenase-1 and 2 (COX-1 and 2) enzymes, via acetylation,  
decreased formation of prostaglandin precursors;  
binds irreversibly to platelets  
inhibits formation of prostaglandin derivative, thromboxane A2