Across

4. HEPARAN — Endothelial secretion that stimulates antithrombin
7. FIBRINOGEN — Substance that bridges platelet GP IIb/IIIa receptors
9. VASOCONSTRICION — Effect of thromboxane A2 on blood vessel
11. AMPLIFICATION — Coagulation phase that generates thrombin burst
17. AGGREGATION — Effect of thrombin on platelet function

Down

1. ADP — Platelet aggregator that acts through P2Y12 receptors

18. ONE — COX enzyme type inside the platelet
19. SEROTONIN — Platelet dense granule vasoconstrictor
20. TEN — Activated factor produced by intrinsic tenase complex
21. PROSTACYCLIN — Endothelial secreted inhibitor of platelet aggregation
**Hemostasis Puzzle**
Bill Wightkin, PharmD, MS

**Down**

2. THROMBIN — Generates factor Va
3. VWF — Needed for platelet IB receptor to bind to collagen (abbrev.)
5. PLASMIN — Dissolves fibrin
6. THROMBOMODULIN — Binds with thrombin to generate an anticoagulant
8. TPA — Endothelial secretion that results in plasmin formation
10. THIRTEEN — Clotting factor that crosslinks fibrin
12. ANTITHROMBIN — Inactivates factors IIa, IXa and Xa
13. INHIBITION — Effect of endothelial secreted nitric oxide on platelet aggregation
14. TISSUEFACTOR — Subendothelial initiator of extrinsic coagulation pathway
15. EIGHT — Activated clotting factor inactivated by Protein C
16. CARBOXYL — Chemical group added by liver to clotting factor precursors to produce factors II, VII, IX and X.