BI 358 Active Learning Questions Lecture 9

1. What is *percutaneous transluminal coronary angioplasty* (PTCA)? *When* is PCTA used? Is it viewed as *invasive* or *non-invasive* and *why*? What is the *function* of PCTA?

2. What is a *stent*? When is it used and in conjunction with *what other technique*? What is a drug-eluting stent? What is its *function*?

3. What is *TAVR*? When is *TAVR* used? What is its *function*?

4. Compare and contrast the *Conventional Model* with the *Glagov Model* for the development of atherosclerotic plaque. Draw a simple sketch below that indicates your knowledge of the differences between these two models. What are atheroma *shoulder regions*? What is *acute coronary syndrome*? What does *IVUS* stand for? What does *IVUS* account for that standard coronary *angiography* cannot account for in coronary arteries?

5. What is *PCSK9*? How is it involved in the expression of *LDL receptors*? What happens to *LDL receptors* when *PSCK9 is inhibited* using monoclonal antibodies?