

BI 358 Active Learning Questions Lecture 7

1. What are some of the causes of *contact dermatitis*? When does it most often occur *after exposure* (provide time course)? What type of *hypersensitivity classification* is contact dermatitis?
2. What are the *two major branches* of the immune system? Provide 2 *specific examples* within each of these branches and 2 *specific contrasts* between these branches (that is, noting how they differ). What are the *two branches* or subcategories of the *acquired/adaptive immune system*? What *white blood cell subclass* is involved in both branches by nature of its primary function (thus demonstrating overlap and false separation between these two acquired immune system branches)?
3. What is the *primary function* of the *adaptive (acquired/specific) immune system*? In most cases, adaptive immunity involves a lag time from exposure to response. What is the *primary exception* to this?
4. What is an *immunoglobulin*? Make a rough sketch of an immunoglobulin below. List *general functions* and *subclasses* and a *unique characteristic* of each subclass. Which *immunoglobulin subclass* is elevated in *allergic reactions*? Which is most *prevalent* in plasma? Which *subclass* has yet to have its function clarified? How might *allergy shots* or immunotherapy help *reduce the severity* of an allergic reaction?
5. What are two major phases of the pathophysiology of *allergic inflammation*? Briefly describe *allergy testing*. What is the *3-legged stool* of *allergy treatment*? Briefly describe *high-dose immunotherapy*. Provide 2 examples of an *auto-immune disease*.