Immunology – Exam 3 Study Guide

* Review all chapters and powerpoints
* What are the steps of leukocyte extravasation?
* What are chemokines?
* What are high endothelial venules? Where do you find them? What is their purpose?
* Do lymphocytes tend to “home” and migrate where they first encountered antigen?
* Describe 3 events that happen to a B cell in a germinal center.
* What is a mixed lymphocyte reaction?
* What are the 4 categories of hypersensitivity reactions? What is the mechanism of action for each? What are examples? Which ones involve antibody?
* What makes an individual more susceptible to Type I?
* What is the hygiene hypothesis?
* How can antibody shots help with Type I hypersensitivity?
* What is chronic inflammation? What are the causes of chronic inflammation?
* Can unprocessed antigen also make its way to lymph node B cells?
* Effector functions of T cells - What is perforin? What are CTLs? How do they kill cells? Remember how T cells recognize antigen
* How do natural killer cells recognize infected cells? What is the balanced signals model?
* Describe the 6 antibody-mediated effector functions that were discussed.
* Mucosal immunity – review figures of small and large intestine, respiratory tract. What cell types are found there? What is their function? Why is gut tolerance (homeostasis) important?