

IMMUNO EXAM 1: GUIDES TO STUDY

The Immune System:

- Innate vs. acquired immune response → two systems work synergistically to achieve an optimal immune response
 - Innate immune response (post-infection)
 - If pathogen DOES invade, this happens immediately
 - Inflammatory response
 - Occurring AT SITE OF INFECTION
 - Happens immediately
 - Working against ALL pathogens
 - Same fighters for ALL kinds of infections
 - Detection and clearance of pathogens by complement and macrophages
 - Activation of complement system and macrophages triggers local inflammatory response (triggers production of cytokines)
 - Which leads to recruitment of more effector cells
 - Activation of dendritic cells leads to initiation of adaptive immune response
 - Acute inflammation
 - Similar magnitude of response each time
 - Acquired immune response (adaptive) (post-infection)
 - Adding to ongoing innate immune response
 - They are working as a team
 - Selection and expansion of pathogen-specific lymphocytes
 - Slow start but WITH immunological memory
 - A delayed event
 - Involves the interaction with innate immune response (DC cells)
 - Involves the selection and expansion of lymphocytes (T and B cells) with specific receptor
 - Greater and faster response upon subsequent challenge by the same antigen
- Major components of immune system and their functions:
 - Non-cellular components:
 - Complement: affect the behavior of other cells (also affect behavior of themselves)
 - Cytokines: affect the behavior of other cells (also affect behavior of themselves)
 - Chemokines: (specialized cytokines)
 - Involved in guiding WBCs to sites where their functions are needed (strong smells can help to attract immune cells)
 - Phagocytic cells:
 - Macrophages (located extracellularly)
 - Induce inflammation and kill bacteria intracellularly
 - First phagocyte to sense the invading microorganism (local guard)
 - Orchestrating the local response to infection (through inflammation)
 - Engulfing pathogens and dead cell remain
 - *Clearance of pathogens and initiate inflammatory response (TLR)
 - Neutrophils
 - Circulating in blood (most numerous and most lethal)
 - Recruited to sites of infection
 - Eat them die (pimple example)

Immunology Exam 1 Study Guide

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