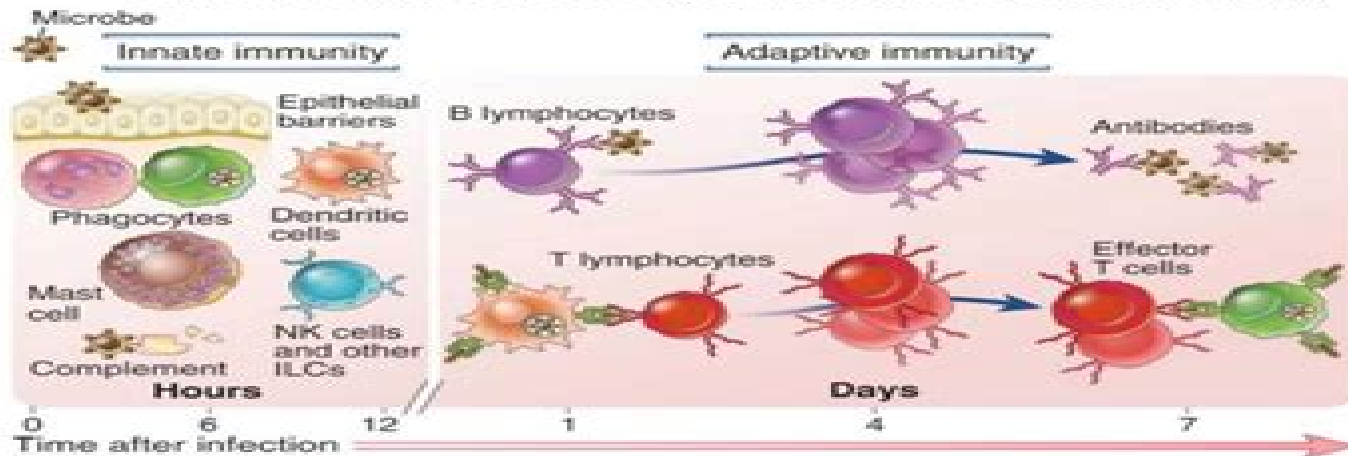


WEEK 1 26/07/2018

- An Immunogen (immunogenic) elicits an adaptive immune response e.g. influenza virus
- An Antigen (Ag) is a specific immune target (usually referring to recognition by adaptive cells) e.g. hemagglutinin on surface of influenza virus.
- Levels of protection from pathogens:
 - First line: Physical barriers that viruses and bacteria must cross. Skin covers and mucous membranes that line digestive, respiratory, reproductive tracts, cover ~400 m²
 - Second line: Innate immune system. Macrophages (Greek for "big eater"), neutrophils, natural killer (NK) cells, Cytokines (hormone-like proteins that mediate inflammation), Complement proteins
 - Third line (vertebrates only): Adaptive immune system, adapts to defend against specific pathogens using variable receptors.
 - B cells make antibodies, each individual B cell makes a specific antibody to a specific antigen
 - T cells mediate cellular responses using variable receptors (T cell receptors; TCRs)



- Innate Immunity:
 - Present at birth and for life
 - No specificity (i.e. can respond to many stimuli)
 - Not modified by stimulus (i.e. no memory, not enhanced on subsequent exposure)

Lecture Notes Infectious Diseases

Zhien Ma



Lecture Notes Infectious Diseases:

Unveiling the Magic of Words: A Review of "**Lecture Notes Infectious Diseases**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Lecture Notes Infectious Diseases**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

<https://matrix.jamesarcher.co/About/detail/HomePages/Ebook%20Paranormal%20Romance%20Series.pdf>

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