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Second Line of Defense

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| **Across**  **2.** Constant migration through blood and tissues looking for foreign cells  **8.** pathogen associated molecular pattern  **9.** Tissue injury caused by physical or chemical agent or pathogenic microorganism  **11.** cell type with the ability to differentiate into macrophages or dendritic cells  **13.** destruction of pathogens by nuetrophils, monocytes, lymphocytes, and macrophages  **14.** has a major immune function that provides a passageway within and between tissues and organs, also containing many white blood cells  **15.** Phagocytosis, inflammation, fever, interferon, complement  **16.** The second line of defense has to be ready at the  **18.** protein receptors, multiple types | **Down**  **1.** when a white blood cell toll like receptors comes in contact with a PAMP  **3.** Mediator with both vasoactive and chemotactive effects and has 5 stages: initiation, amplification, cascade, polymerization, and membrane attack  **4.** white blood cells that are attracted to chemokines  **5.** residing on the surface of white blood cells  **6.** Has three major functions one acting as a "drain off" for inflammatory response \*study all functions  **7.** White blood cells migrate out of circulation  **10.** Surveillance of white blood cells  **12.** A blood cell type with a function of inflammatory response  **17.** Inflammation provokes a systemic response with \_\_\_\_\_\_\_\_\_\_\_ and proliferation of white blood cells |