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Immune system concept map worksheet answers

View and share this diagram and more on your device or Register through your computer to use this Immune System Concept Map: The 3 Lines of DefenseStep 1- Create The Map2 Concept template. Make a conceptual map using all of the following terms. 3. Remember: A. A conceptual map is not linear; should have interconnections. B. Place each of the key terms below in your own separate bubble. C. Each line of defense must have a different form Bubble Key Terms/List of Phrases for Concept Map Body Defenses1a Line of Defense- Barriers That Keep Pathogens Out2nd Line of Defense- Inflammatory Response3aa Line of Defense- Immune ResponseSinferonb CellsBreathing Passages Mucus White Blood Cells (Lymphocytes) Sneezing CoughSaliva Stomach Widening increasing blood flow to areasRepidts FeverNK Cells (Natural Killers)Tears PhagocytesWhite Blood Cells (Lymphocytes)CiliaCytotoxic T-Cells (Thymus)AntibodiesHelper T-cellsStomachRegulatory T-cellsStep 2- Add bubbles to the concept map that form a bottom tier describing the function of each of the bubbles of the previous levelExstep. Tears --> salt water and enzymes that remove invasive eye pathogensStep 3- Show your concept map completed with additions to the teacher/substitute and receive the sample concept map handwritten in comparisons. Step 4- In a GOOGLE DOC shared with katherine_kolesar, explain how each example is a good analogy/comparison between America's defenses against invasions and the body's defenses against invasions. 1 or 2 convictions per defense starting with the first line of defense, then the second, then the third. If you don't know what an article like NAPALM is google or ask around.Ex. Tears / Coast Guard- Tears use salt water to prevent large groups of aliens/pathogens from invading the body, just as the Coast Guard uses ships in the ocean (salt water) to gather large groups of invaders to stay out of the United States. the_bodys_defenses-bubbles.isfT Size: 77 kbFile Type: isfDownload File Immune System Concept Map,created_at:2016-04-14T21:19:52Z,updated_at:2019-06-27T11:42:44Z,sample:false,description:A concept map of chapter 11.1 notes taken on 4-14-16 displaying the relationships between and in the specific and nonspecific immune systems.,alerts_enabled:true,cached_tag_list:immune system, specific immune system, nonspecific immune system, phagocytes, lymphocytes, use descriptive tags to organise your content,deleted_at:null,hidden:false,average_rating:null,demote:false,private:false,copyable:true,score:206,artificial_base_score:0,recalculate_score:true,profane:false,hide_summary:false,tag_list:[immune system,specific immune system,nonspecific immune system,phagocytes,lymphocytes,use descriptive tags to organise your content],admin_tag_list:[what is immune system,thymus gland,innate immune system],study_aid_type :MindMap,show_path:/mind_maps/5142568,folder_id:4306818,public_author:{id:1856204,profile:{name:sydb623,about:null,avatar_service:examtime,locale:en,google_author_link:null,user_type_id:155,escaped_name:sydb623,full_name:sydb623,badge_classes:}}},width:300,height:250,rtype:MindMap,rmode:canonical,sizes:[[[0, 0], [[300, 250]]]],custom:[{key:rsubject,value:IB Biology},{key:rtopic,value:11.1: Immune System Concept Map},{key:rlevel,value:International Baccalaureate},{key:env,value:production},{key:rtype,value:MindMap},{key:rmode,value:canonical},{key:uauth,value:f},{key:uadmin,value:f},{key:ulang,value:en},{key:ucurrency,value:usd}]} {ad_unit_id:App_Resource_Sidebar_Lower,resource:{id:5142568,author_id:1856204,title:11.1: Immune System Concept Map,created_at:2016-04-14T21:19:52Z ,updated_at:2019-06-27T11:42:44Z,sample:false,description:A concept map of chapter 11.1 notes taken on 4-14-16 displaying the relationships between and in the specific and nonspecific immune systems.,alerts_enabled:true,cached_tag_list:immune system, specific immune system, nonspecific immune system, phagocytes, lymphocytes, use descriptive tags to organise your content,deleted_at:null,hidden:false,average_rating:null,demote:false,private:false,copyable:true,score:206,artificial_base_score:0,recalculate_score:true,profane:false,hide_summary:false,tag_list:[immune system,specific immune system,nonspecific immune system,phagocytes,lymphocytes,use descriptive tags to organise your content],admin_tag_list:[what is immune system,thymus gland,innate immune 0], [[300] 250]],custom:['key':rsubject,value:IB Biology','key:rtopic,value:11.1: Immune System Concept Map,key:rlevel,value:International Baccalaureate,key:env,value:production,key:rtype,value:MindMap,key:rmode,value:canonical,key:uauth,value:f,key:uadmin,value::value::f,key:ulang,value:en,key:ucurrency,value:usd-]- Immune system 1.2.1. when your body has to recognize antigens and produce antibodies1.2.2. vaccines1.2.2.1. injected with weakened or dead viruses so that the body can become immune to the virus1.3. vertebrates only1.4. develops more slowly to allow learning about the pathogen before attacking1.5. humorous response1.5.1. activation of B1.6 cells. cell-mediated immune response1.6.1. activation of cytotoxic T cells1.7. Antigens1.7.1. signs that cause the immune system to create an antibody against the detected pathogen1.7.2. antibody generator1.7.3. Antibodies... 1.7.3.1. not cells1.7.3.2. produced by B1.7.3.3 cells. cannot kill1.7.3.3.1. However, they can swarm around the invaders so it is very difficult for them to move 1.7.3.3.2. they can also adhere to bad guys and send chemical messages to phagocytes1.8. lymphocytes1.8.1. T1.8.1.1 cells. SEE DESCRIPTION AT LEUKOCYTES1.8.2. Cells B1.8.2.1. SEE DESCRIPTION IN LEUKOCYTES 2. Innate immunity2.1. Passive immunity2.1.1. antibodies or administered from their mother2.1.1.1. your body gets antibodies without making them2.1.1.2. when you are a baby2.1.1.2.1. placenta2.1.1.2.2. breast milk2.2. each animal has this2.3. also called non-specific2.3.1. faster?2.4. protects against ALL pathogens2.4.1. barrier defenses2.4.1.1. 1st line of defense2.4.1.2. mucous membranes2.4.1.3. secretions2.4.1.4. skin2.4.1.5. tears2.4.1.6. sweat2.4.2. internal defenses2.4.2.1. 2nd line of defense to barrier defenses2.4.2.2. phagocytes2.4.2.2.1. SEE DESCRIPTION IN LEUKOCYTES2.4.2.3. inflammatory inflammation/response2.4.2.3.1. damage caused by injury or infection2.4.2.3.2. mast cells2.5. leukocytes2.5.1. SEE LEUKOCYTE DESCRIPTIONS 3. Leukocytes3.1. diapedesis3.1.1. when a white blood cell travels through the capillaries and then reaches the point of infection, they send a signal and then ooze through the capillary to heal3.2. phagocytosis3.2.1. phagocytosis3.2.2. eating viruses in the cell (unlike natural killer cells)3.2.3. natural killer cells3.2.3.1. circulate in the blood and kill viruses, bacteria and cancer cells3.2.3.2. MORE INFORMATION IN INNATE IMMUNITY SECTION3.2.4. 4 types3.2.4.1. neutrophils3.2.4.1.1. move around the bloodstream; quickly get to action3.2.4.1.2. when they eat infected cells, they die and become pus3.2.4.2. macrophages3.2.4.2.1. LARGE and does not travel much3.2.4.2.2. so remain around their vital organs3.2.4.2.3. can detect rogue (cancerous) cells and alert others cells3.2.4.2.4. Antigen-presentation3.2.4.3. dendritic cells3.2.4.3.1. mailman3.2.4.3.2. remain outside your body3.2.4.3.3. eating pathogenic and recording the information and then bringing the information back to its scam3.2.4.3.4. allows things to move from the innate immune system to the acquired immune system3.2.4.4. natural killer cells3.2.4.4.1. circulate in the blood and kill viruses, bacteria and blood cells3.2.4.4.2. kill other cells in the body3.2.4.4.3. the only phagocytes that destroy and attack other human cells3.2.4.4.4. humans have MHC 1 when they are healthy3.3. lymphocytes3.3.1.B Cells3.3.1.1. antibodies that may adhere to specific antigens3.3.1.2. B cell3.3.1.2.1 memory. when the pathogen arrives, B cells become and produce effector and memory cells (see hank green vine for illustration)3.3.1.3. effector/plasma cell3.3.1.3.1. use antibodies as a blueprint to make a ton of anitbodies shit for that specific pathogen 2/sec3.3.1.4. Matures in bone marrow3.3.2. T3.3.2.1 cells. Cytotoxic T cells3.3.2.1.1. DO NOT fagocyes3.3.2.1.2. release enzymes that kll cell3.3.2.1.3. defend against the infected cell3.3.2.1.4. suicide 3.3.2.1.5. CELLS KILLER3.3.2.2. Memory T cells3.3.2.2.1. have previously found and responded to the antigen3.3.2.2.2. cells that track how they killed a pathogen (chicken smallpox)3.3.2.3. auxiliary T cells3.3.2.3.1. B cells to indicate the genetic material of the pathogen3.3.2.3.2. release of cytokines from T3.3.2.3.3 cells. call the shots for the entire immune system3.3.2.4. mature in timus3.3.2.4.1. coordinate the immune system and attack the attack

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