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The biology of osmosis jones pdf answers

Osmosis Jones can invoke nostalgic visions of the second-grade biology class. Today, the adventures of Ozzie and Drix in the film warner brothers 2001 are a resource to understand how our body fights against pathogens while we, as a society facing coronavirus (COVID-19). The live-action hybrid and animation tells the story of Frank (played by Bill Murray). A zookeeper with poor health habits, Frank inevitably contracted an unknown disease. It's up to Osmosis Jones, a white blood cell cop known as Ozzie, and Drix, a difficult cold treatment pill, to bring Frank's body back to homeostasis. What does an Osmosis Jones tell us about the new reality COVID-19 that we face today? Your body is ready to go to the police against dangerous pathogens. The main character Ozzie is a white blood cell (WBC), a vital component of a functional immune system. WBCs police viruses, fungi and other pathogens to defend our bodies against disease. As in the film, the many systems of our body constantly communicate. WbCs like Ozzie are parked all over the body and work with the lymphatic system and other defensive entities to fight infection and disease. People with chronic illnesses have a corrupt police force. In the film, when germs enter the immune system, immunities like Ozzie respond to them. For people with autoimmune diseases such as lupus and rheumatoid arthritis, the body attacks and destroys its own police force, or WBCs, which are intended to defend them from damage. One type of WBC on the front lines of defense is the neutrophil. Neutrophils detect and congregate at infection sites, and destroy deadly pathogens. People with cancer, autoimmune diseases and chronic diseases may experience a small amount of neutrophils, resulting in increased susceptibility to viruses such as covid-19 due to the lack of ability to manage dangerous pathogens. Wash your hands, especially before eating. At the beginning of Osmosis Jones, Frank drops the egg he nibbles in the monkey show, claims the ten-second rule and continues to eat it. When controlling the saliva boat in Frank's body cleans the remains of the dirty egg, they propose to write a letter to remedy Frank's lack of hand washing and general poor hygiene. Don't be like Frank. According to the Centers for Disease Control and Protection (CDC), proper hand washing reduces respiratory diseases like COVID-19 in the general population by 16-21%. Eat fibrous foods to fight infection. When the character Tom Clonic announces running for mayor, he promises to run on the platform of cleaning up rot and stagnation in the bowels. He wants to make things happen by adding fruits and vegetables to Frank's diet. A recent study published in the Lancet collected information from virtually all available studies in the major research databases over the past 40 years of 185 prospective studies and 58 clinical trials with 4635 adult participants. The study found one thing in common: participants who incorporated more fibre were found to be more likely to live longer and avoid common diseases in the process. According to the study, the population as a whole is better off consuming more fiber because it reduces the risk of diseases like COVID-19 that affect humans en masse. Osmosis Jones may be fictional, but biology and the message sound true. Wash your hands, eat your greens and do your part. By Tess Francke Tess Francke is an independent journalist and marketing specialist who has spent her career at the intersection of media, writing, design and health research. You'll find her other byline in the blog of the National Foundation for Cancer Research and Research for quarterly remission magazine in oncology. She is proud to be from Detroit and is dedicated to facilitating the vital link between people and health information. She enjoys teaching fitness classes and her daily yoga practice. Thank you for your participation! Participation!

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