

THE IMMUNE SYSTEM & BLOODBORNE PATHOGENS

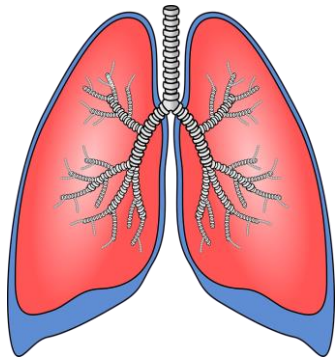
5th Grade

CLASS CONTENT

- Introduction to the Immune System and terminology
- Introduction to Bloodborne Pathogens
- How to protect oneself from Bloodborne Pathogens

NATURAL BARRIERS

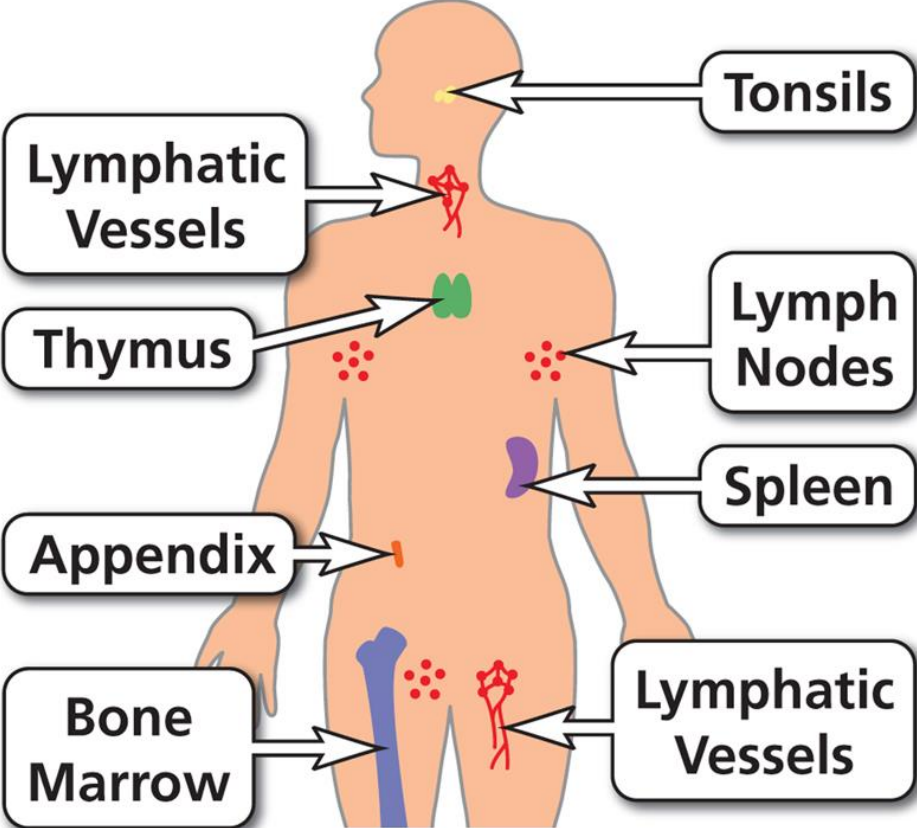
- ❖ Skin
- ❖ Respiratory System
- ❖ Gastrointestinal System
- ❖ Immune System

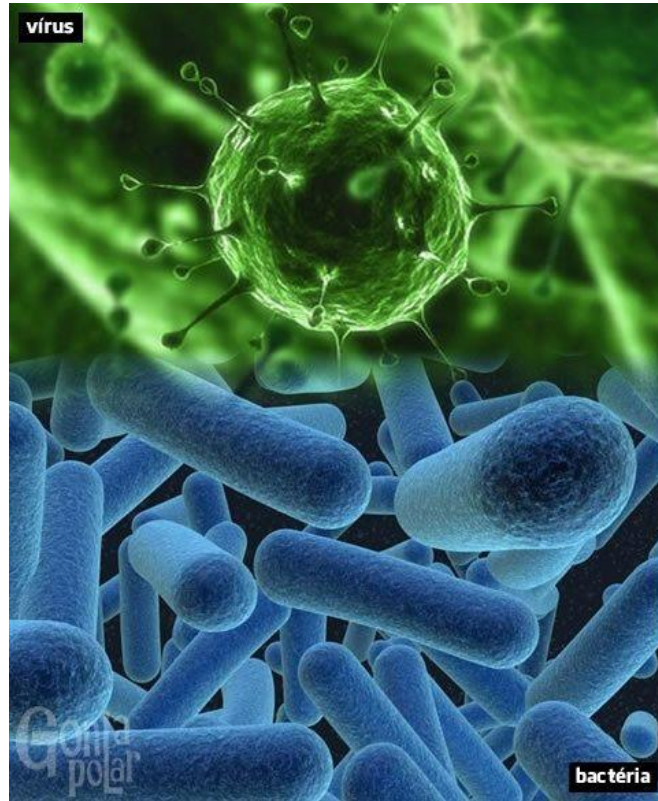


THE IMMUNE SYSTEM

- ❖ Protects against diseases and illnesses caused by bacteria and viruses.
- ❖ Made up of specialized organs, cells, and tissues that work together to destroy these “invaders”.
- ❖ The process of the body fighting off “invaders” is called the immune response.

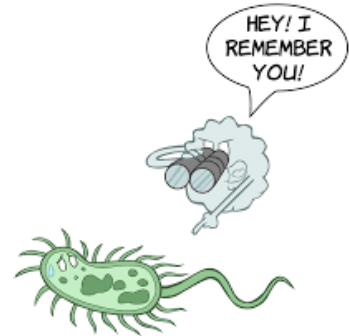
Immune System





HOW DO WE GET IMMUNITY?

- ❖ Natural Immunity – developed at birth
- ❖ Acquired Immunity – exposure to an “invader”/immunization
(example: chicken pox)

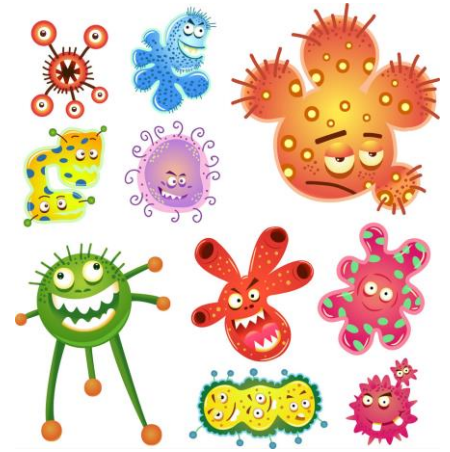


BLOODBORNE PATHOGENS

Hepatitis C

Hepatitis B

HIV/AIDS



*These pathogens are transmitted by blood to blood contact or contact with other body fluids.

HIV

Human

Immunodeficiency

Virus

AIDS

Acquired

Im m u n o Deficiency

Sndrome

FACTS ABOUT HIV/AIDS

- ❖ It is carried in the blood of someone that has the virus.
- ❖ Once someone has HIV/AIDS – they have it for the rest of their life! There is no cure!
- ❖ There are medicines that can help to prolong a person's life that has HIV/AIDS.
- ❖ HIV/AIDS affects a person's immune system. They may get infections that a healthy person would be able to fight off.

YOU CANNOT GET AIDS FROM...

- ❖ Drinking from a water fountain after someone with HIV/AIDS
- ❖ Swimming in the same pool with someone that has HIV/AIDS
- ❖ Shaking hands with someone that has HIV/AIDS
- ❖ Being in the room with someone that has HIV/AIDS
- ❖ Donating blood or receiving a transfusion.
- ❖ HIV/AIDS is not carried in saliva, tears, sweat, or urine.



WHAT WOULD YOU DO?

- ❖ What would you do if someone you are with was hurt and bleeding?
- ❖ How would you protect yourself?
- ❖ Why do you need to protect yourself?
- ❖ Universal Precautions



PEOPLE FOR ACCURATE INFORMATION

- Parents
- Teachers
- Doctors and Nurses
- Friends??



GENERAL INFORMATION / IMPORTANT TO REMEMBER!

Avoid catching illnesses and diseases by:

- ❖ Wash your hands!
- ❖ Clean out cuts and scrapes!
- ❖ Protect yourself from other's blood!
- ❖ Keep your immune system strong by keeping your body healthy!



QUESTIONS?

REFERENCES

https://www.ducksters.com/science/biology/immune_system.php

The Immune System: Doing Its Part, Marsh Media (Item #9553D)