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.
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 ImmunoDeficiency Syndrome
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 CAN NOT 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??
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)