

Agenda Welcome and Introductions • Four Body Reservoirs • Four Healthcare Environment Reservoirs • Body and Healthcare Environment Reservoirs: Synthesis PROJECT FIRSTLINE Introduction to Reservoirs: Where Germs Live | Session 1: Body Reservoirs

Four Body Reservoirs

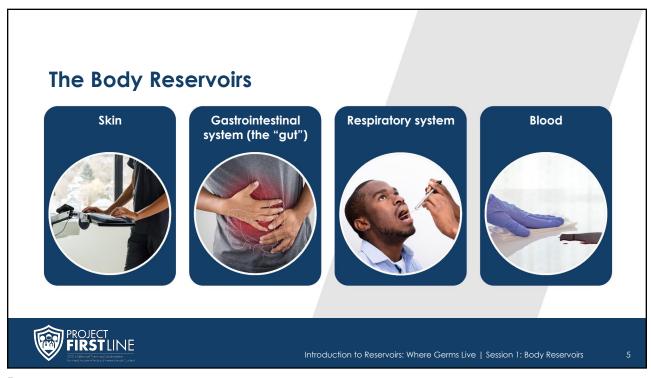


Introduction to Reservoirs: Where Germs Live | Session 1: Body Reservoirs

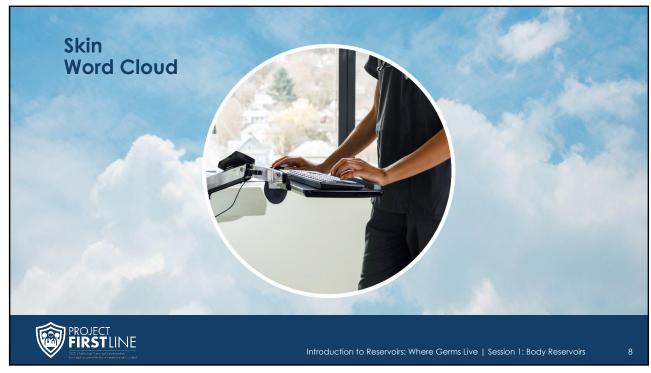
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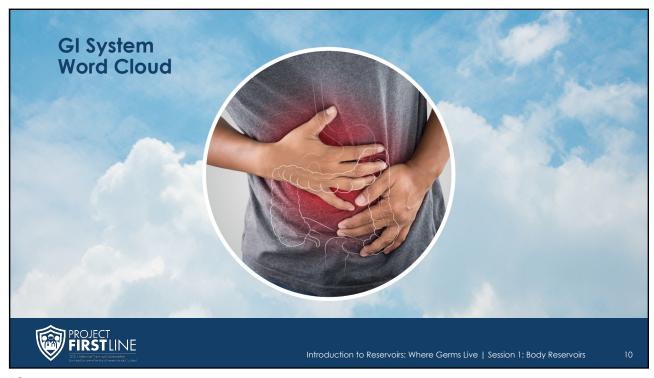
Key Takeaways about the Skin Reservoir

- ✓ Skin, especially hands, interacts with the environment daily.
- ✓ Pathways:
 - o Touch
 - o Breaking down or bypassing the body's defenses



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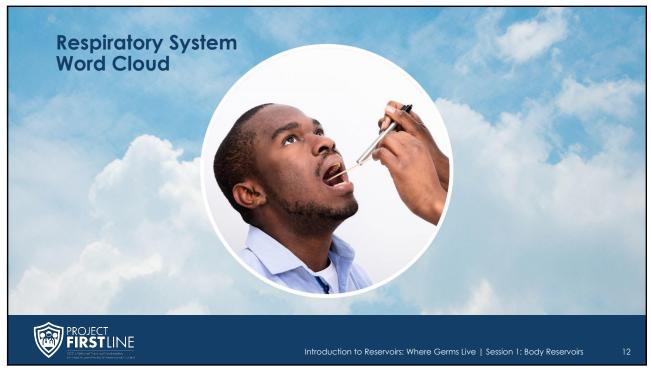


Key Takeaways about the GI System Reservoir

- ✓ The "gut" usually refers to most of the intestines, rectum, and anus.
- ✓ Gut germs travel easily in stool.
- ✓ Pathways:
 - o Touch
 - o Breaking down or bypassing the body's defenses



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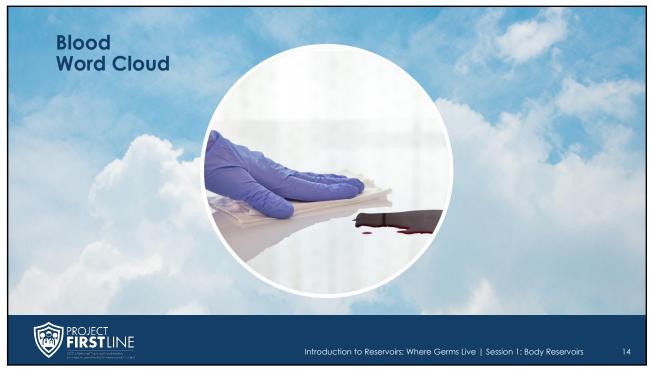


Key Takeaways about the Respiratory System Reservoir

- ✓ Upper airway: Nose, mouth, throat, windpipe
- ✓ Lower airway: Lungs
- ✓ Pathways:
 - $_{\circ}\,$ Breathing in
 - Splashes and sprays
 - o Touch



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Key Takeaways about the Blood Reservoir

- ✓ Blood is not supposed to have germs in it.
- Some viruses cause infections that release virus into the blood. If a person is infected and untreated, blood can then spread the virus to other people.
- ✓ Pathways:
 - o Breaking down or bypassing the body's defenses
 - Splashes and sprays
 - o Touch



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Bringing It Together



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Key Takeaways

- ✓ "Reservoirs" are the places on and in our bodies and in the environment where germs live. Germs frequently spread between and among these reservoirs.
- Four reservoirs in the human body that are important for infection control are the skin; the gastrointestinal (GI) system or "gut"; the respiratory system; and blood.
- Understanding where germs live helps us recognize where there is risk for them to be spread, and why infection control actions work to stop them from spreading and making people sick.



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Four Healthcare Environment Reservoirs



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Discussion



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Water and Wet Surfaces Reservoir

- Water is used in many ways in healthcare.
- Tap water is safe to drink, but it is not sterile.
- Water and wet surfaces can be good places for germs to grow.

Pathways:

- Touch
- Splashes and sprays
- Breathing in



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Dry Surfaces Reservoir

- Germs found on the body, in the air, and in stool can also be found on dry surfaces
- Includes "high-touch" surfaces: bed rails, door handles, light switches



- Touch
- Breaking down or bypassing the body's defenses



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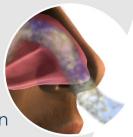
Dirt and Dust Reservoir

- Dirt, soil, and dust from both outdoors and indoors have germs in them that can be carried through the air.
- Germs in dirt and dust can harm certain patients.

Pathways:



• Touch





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Devices Reservoir

- Often in contact with multiple surfaces and people
- Used on a patient's body (stethoscope, blood pressure cuff)
- Used in a patient's body (IV needle, endoscope, artificial hip)

Pathways:

- Breaking down or bypassing the body's defenses
- Touch



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Bringing It Together



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Key Takeaways

- ✓ "Reservoirs" are the places on and in our bodies and in the environment where germs live. Germs frequently spread between and among these reservoirs.
- ✓ Four reservoirs in the healthcare environment that are important for infection control are water and wet surfaces; dry surfaces; dirt and dust; and devices.
- Understanding where germs live helps us recognize where there is risk for them to be spread and why infection control actions work to stop them from spreading and making people sick.



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Body and Environment Reservoirs



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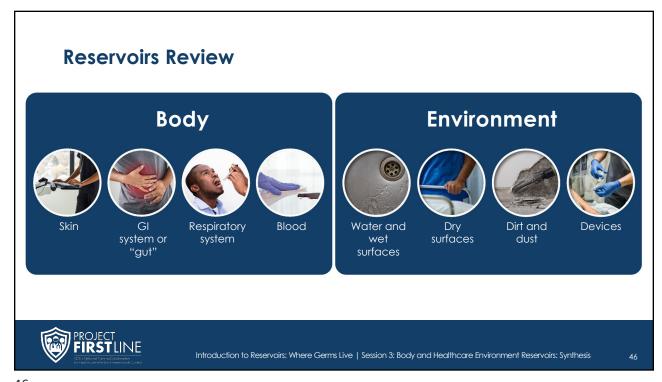
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Reservoir Definition

The places where germs live are called "reservoirs." There are reservoirs in the human body and in the environment.



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How Does It Happen?

- Break out into groups.
- Based on your tables, work together to create a scenario where your assigned reservoirs interact in healthcare.
- Work together to bring one example/scenario back to the group:
 - "In my daily work, I notice [body reservoir] interacting with [environment reservoir] when..."



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Bringing It Together



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Key Takeaways

- ✓ The places where germs live are called "reservoirs." There are reservoirs in the human body and in the healthcare environment.
- ✓ Infection control actions are connected to how germs can be spread to and from these reservoirs to different areas of the body, from one person to another, from people to things, or things to people.
- Knowing where germs live and how they can be spread can help you understand why infection control actions work to stop them from making people sick.



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How to Get Involved and Feedback

- Project Firstline on CDC.gov: https://www.cdc.gov/infection control/projectfirstline/index.html
- CDC's Project Firstline on Facebook: https://www.facebook.com/CDCProjectFirstline
- CDC's Project Firstline on Twitter: https://twitter.com/CDC_Firstline
- Project Firstline Inside Infection Control on YouTube: https://www.youtube.com/playlist?list=PLvrp9iOILTQZQG https://www.youtube.com/playlist?list=PLvrp9iOILTQZQG https://www.youtube.com/playlist?list=PLvrp9iOILTQZQG https://www.youtube.com/playlist?list=PLvrp9iOILTQZQG
- To sign up for Project Firstline e-mails, click here:
 https://tools.cdc.gov/campaignproxyservice/subscriptions.aspx?topic_id=USCDC_2104
- Project Firstline feedback form: https://www.cdc.gov/infectioncontrol/pdf/projectfirstline/TTK-ParticipantFeedback-508.pdf
- Placeholder for partners to add their own links



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