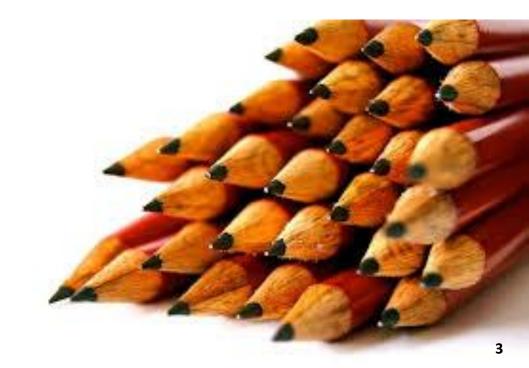


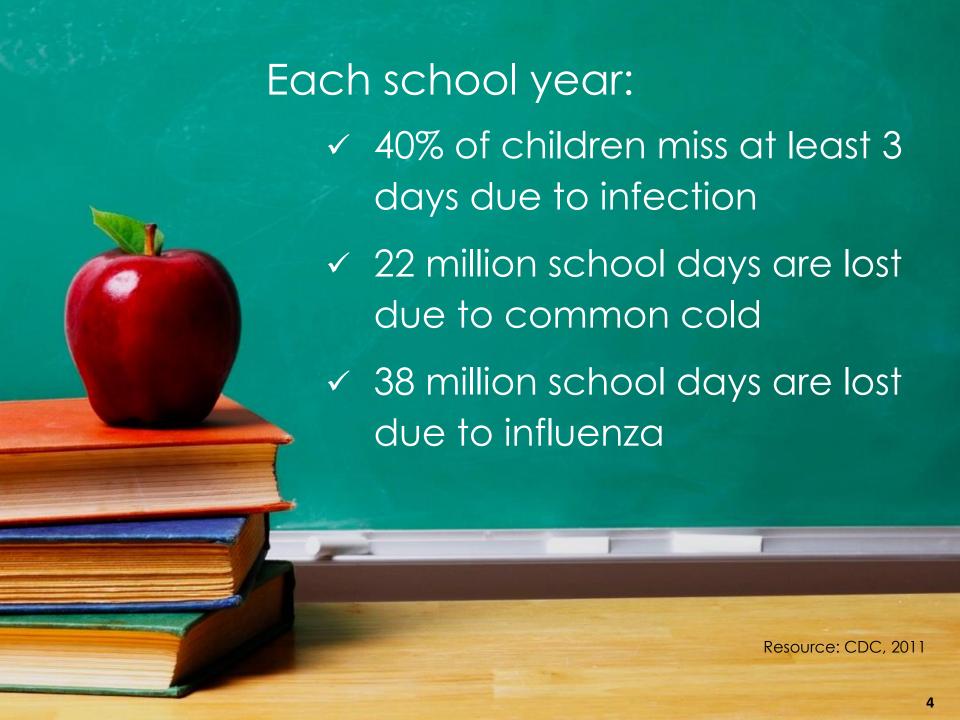
Learning Objectives

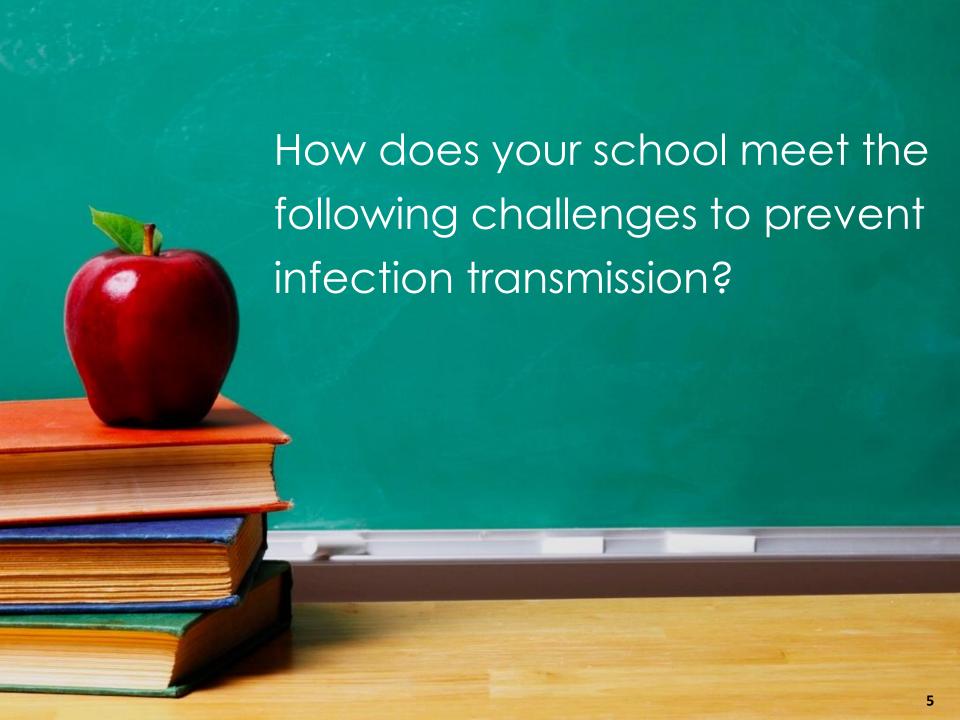
- Apply effective infection prevention practices in school settings
 - Maintain clean environment safe and conducive to learning
 - Effectively contain infective organism spread leading to infection exposure
 - Maximize cooperation from students, teachers and other school staff to prevent infection transmission

Schools can be instrumental in keeping their communities healthy



Resource: CDC, 2011





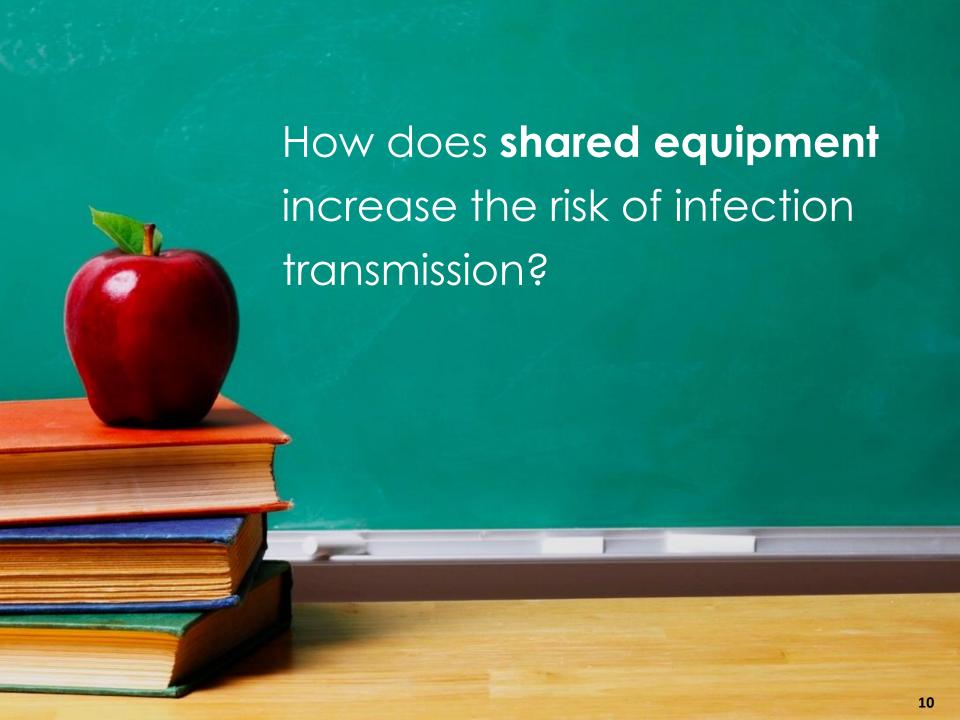


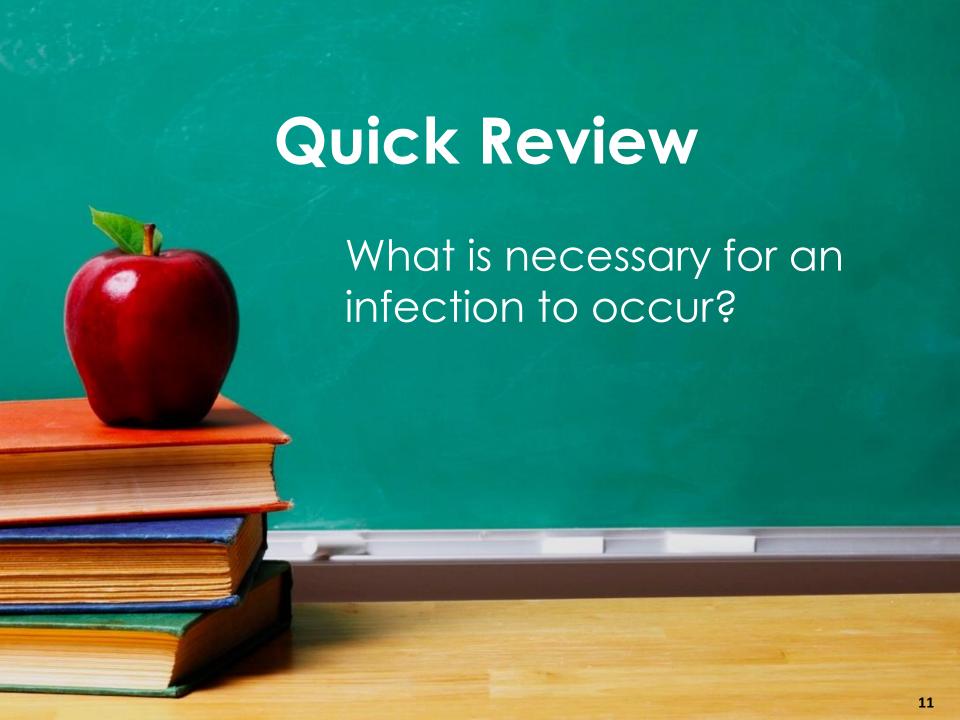
How does your school help others **cooperate** with infection prevention strategies?



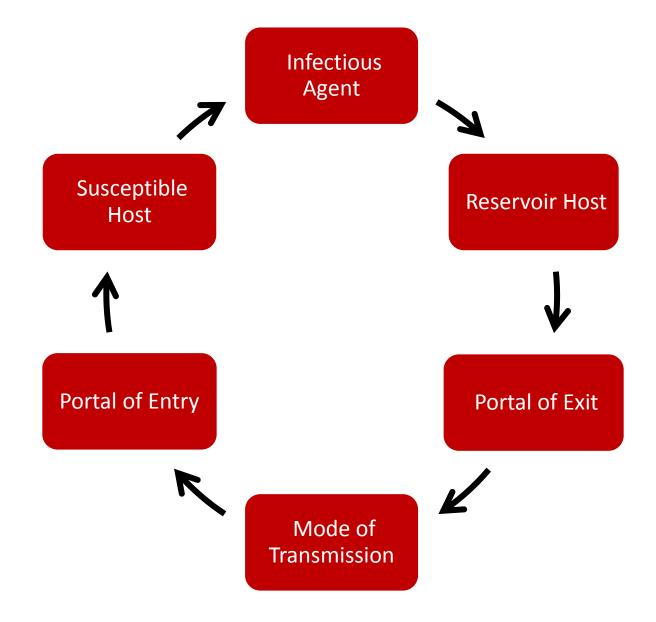
How are infectious secretions contained?

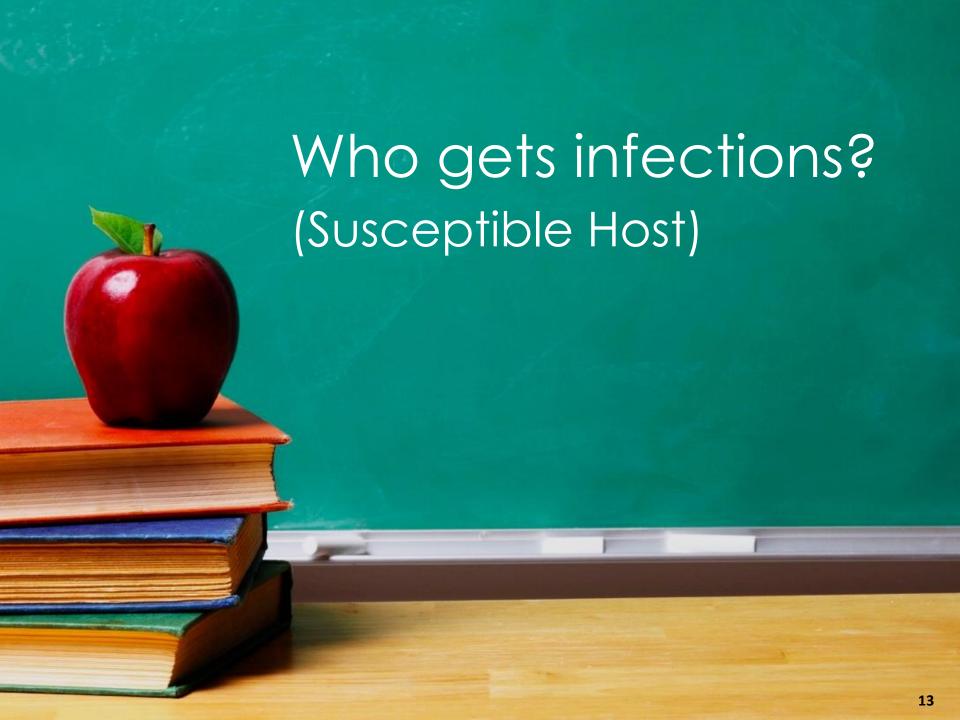






Chain of Infection





Host Susceptibility

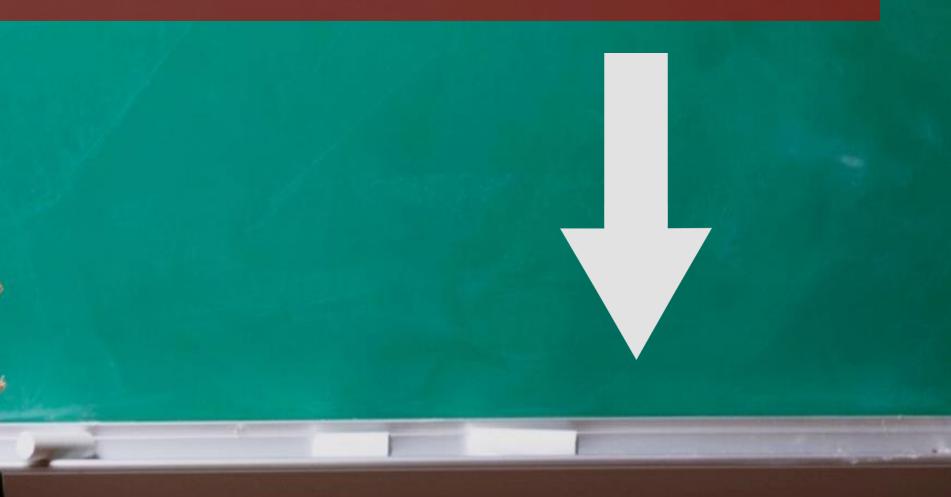
Dependent upon:

- ✓ genetic factors
 - gender
 - DNA
- general actors of infection protection
 - skin and mucous membranes
 - gastric acid
 - cilia in the respiratory tract

What increases your susceptibility to infection?

- Depressed immune response
- ✓ Co-morbidities
- ✓ Malnutrition
- ✓ Antibiotic usage
- ✓ Invasive devices
- ✓ Stress

What decreases your susceptibility to infection?









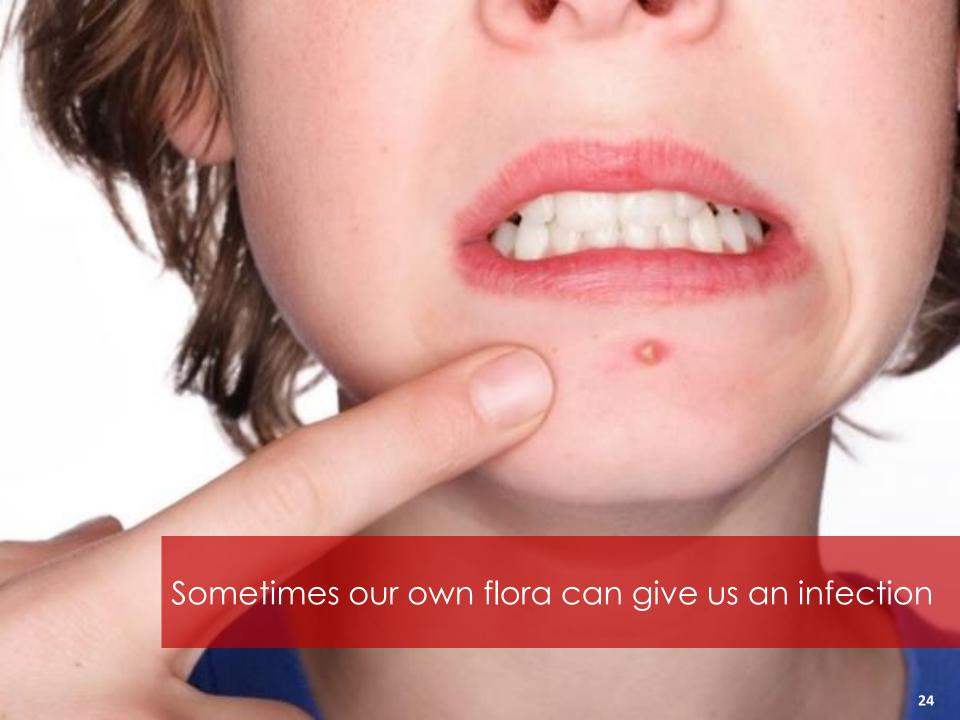


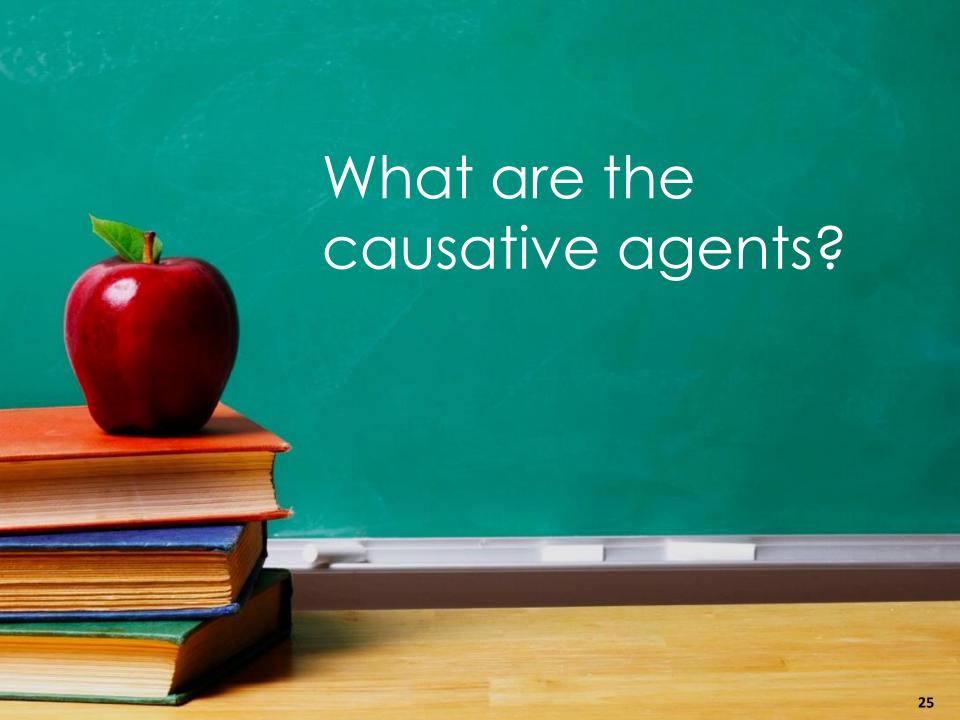


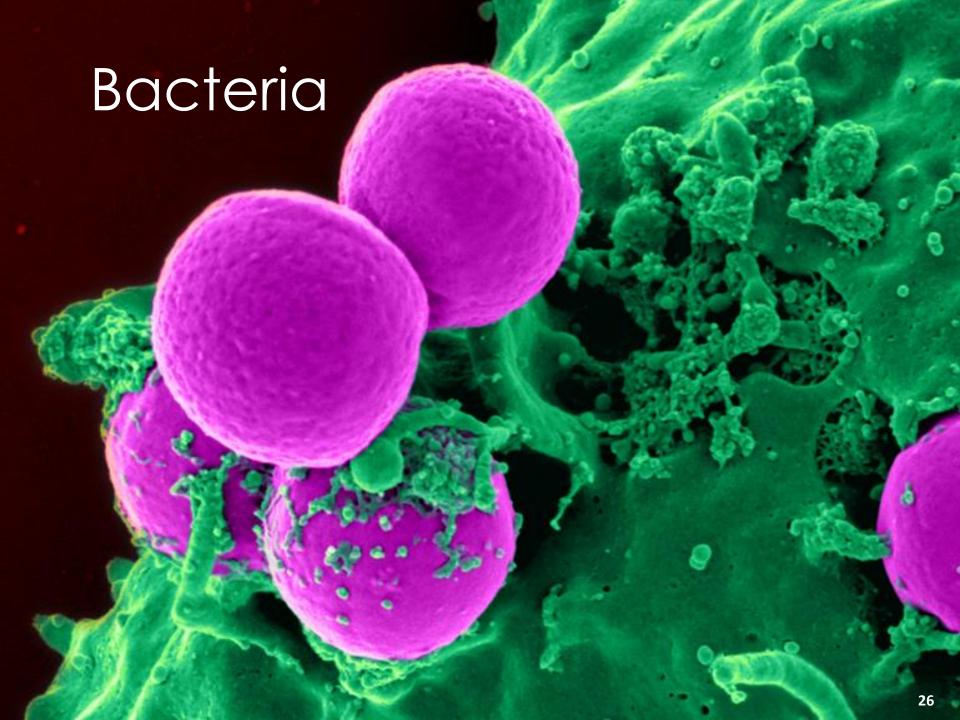


Usually, microorganisms included in our "normal flora" protect us from invasion of other microorganisms

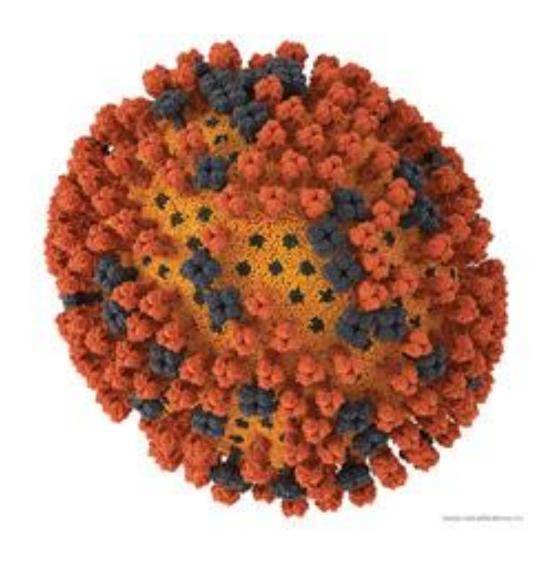








Viruses

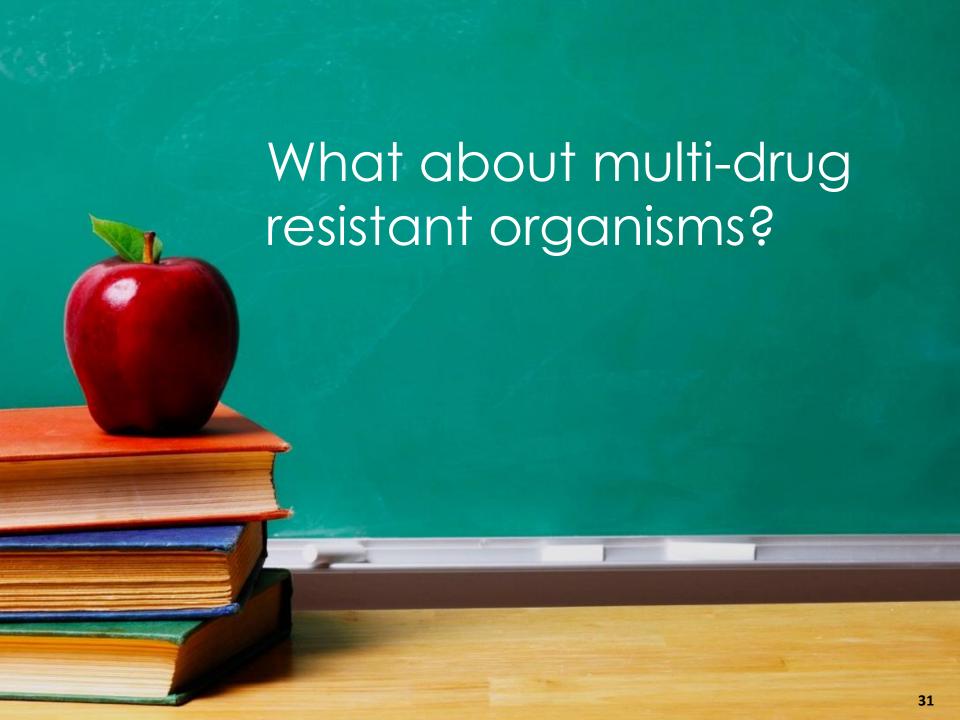


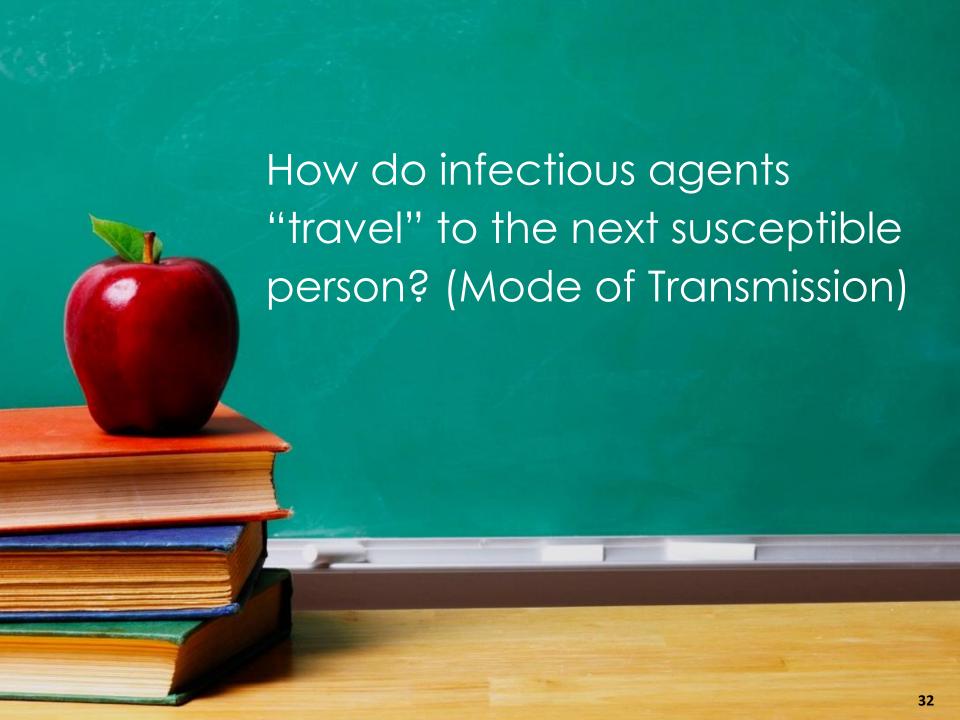
Fungi, yeasts & molds



Ectoparasites, causing lice, scabies, flea infestations, etc.



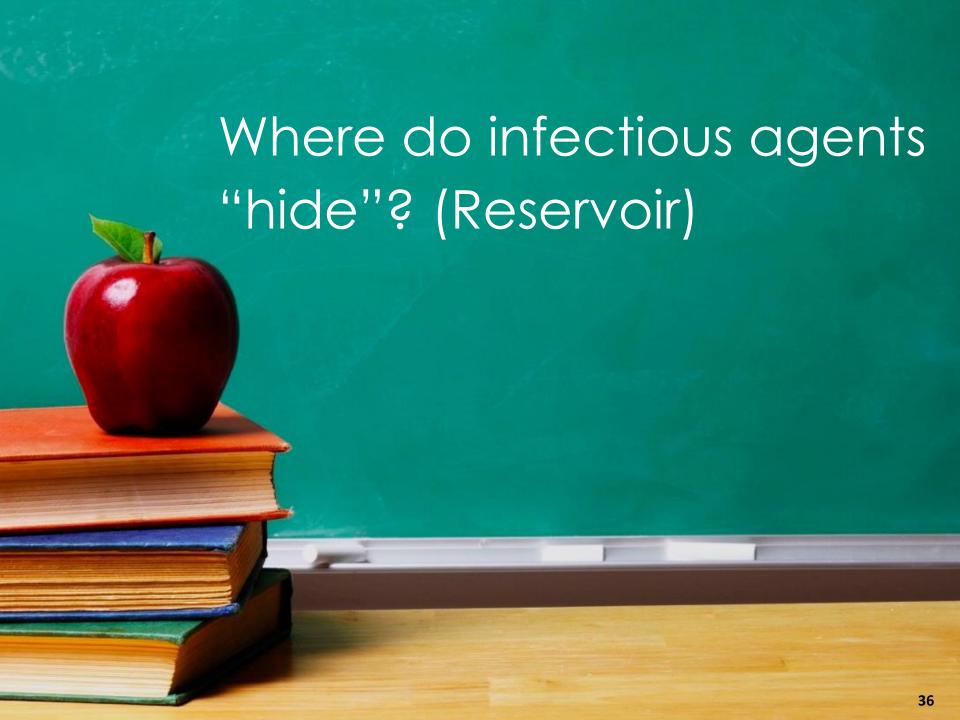






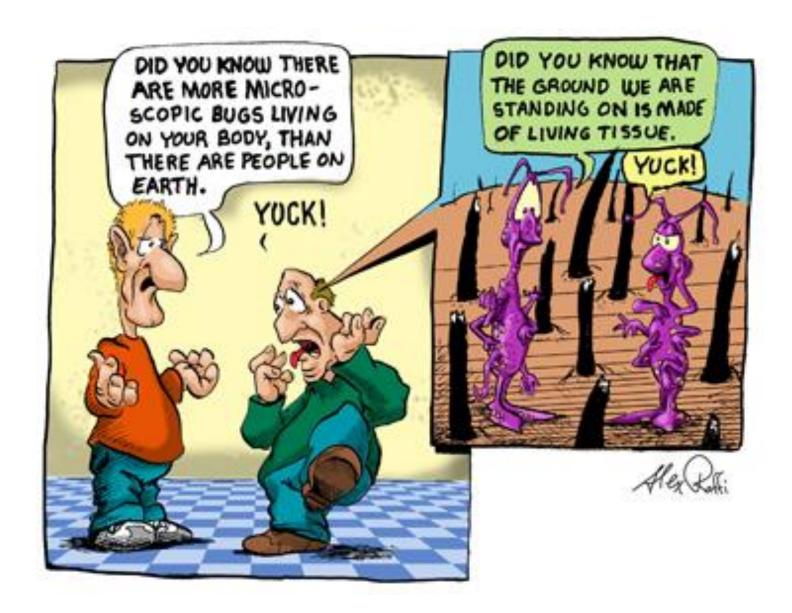
Airborne transmission

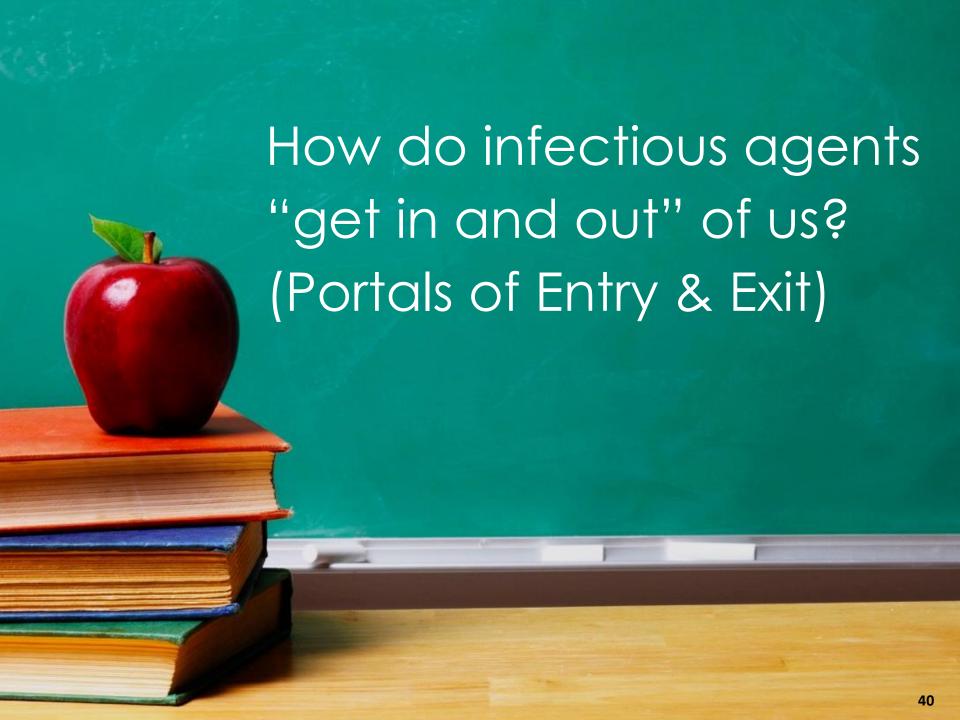
Contact transmission

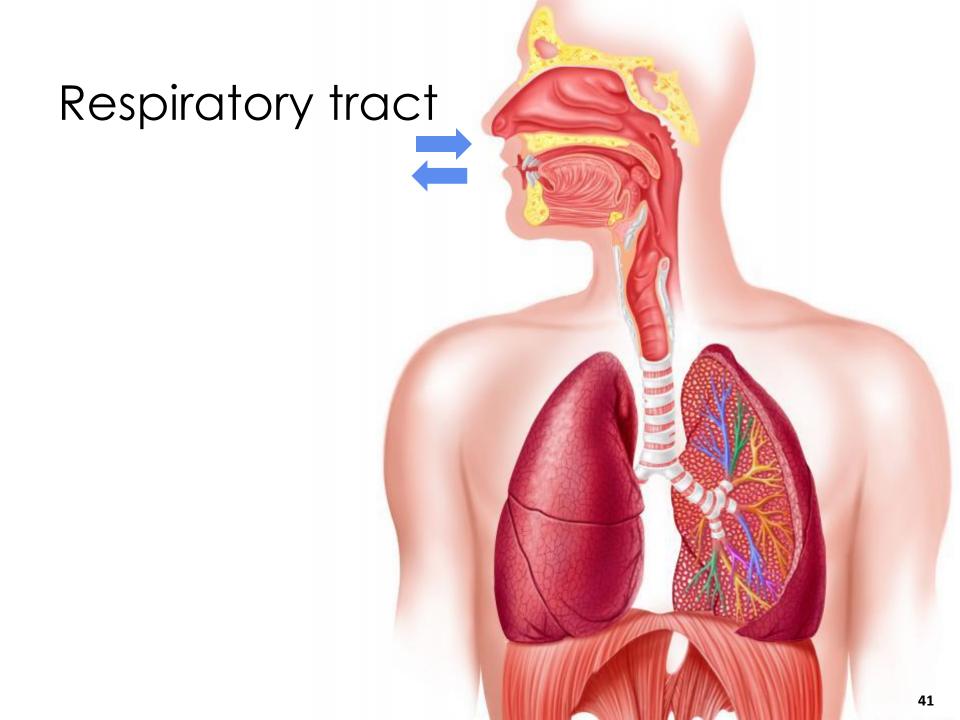




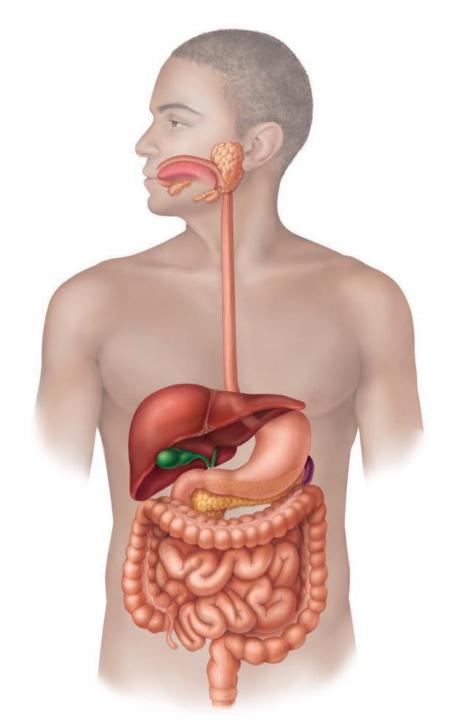




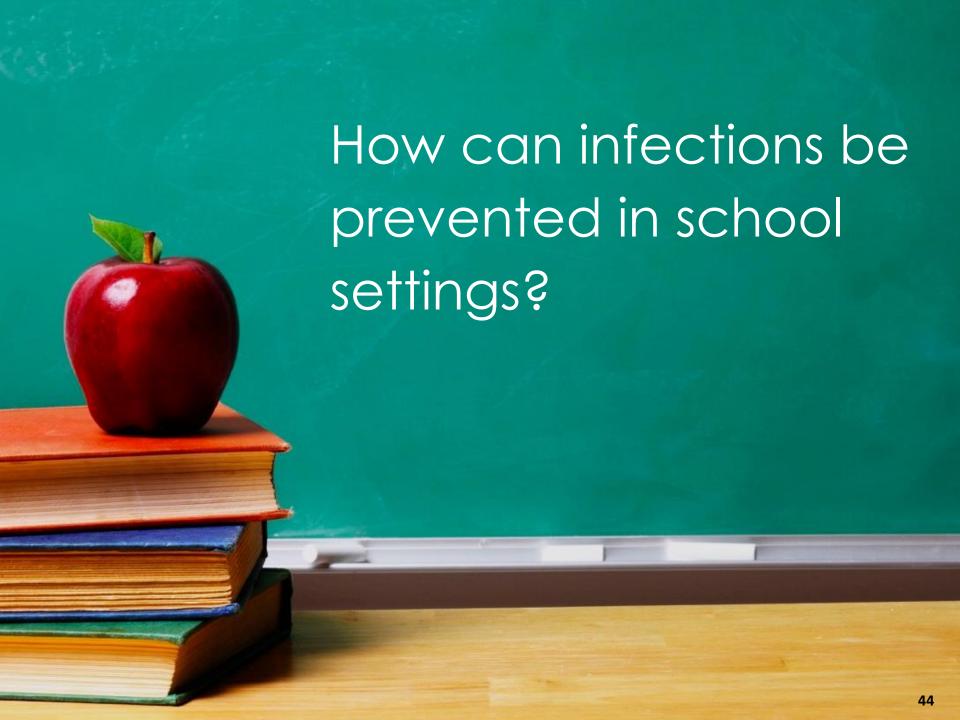


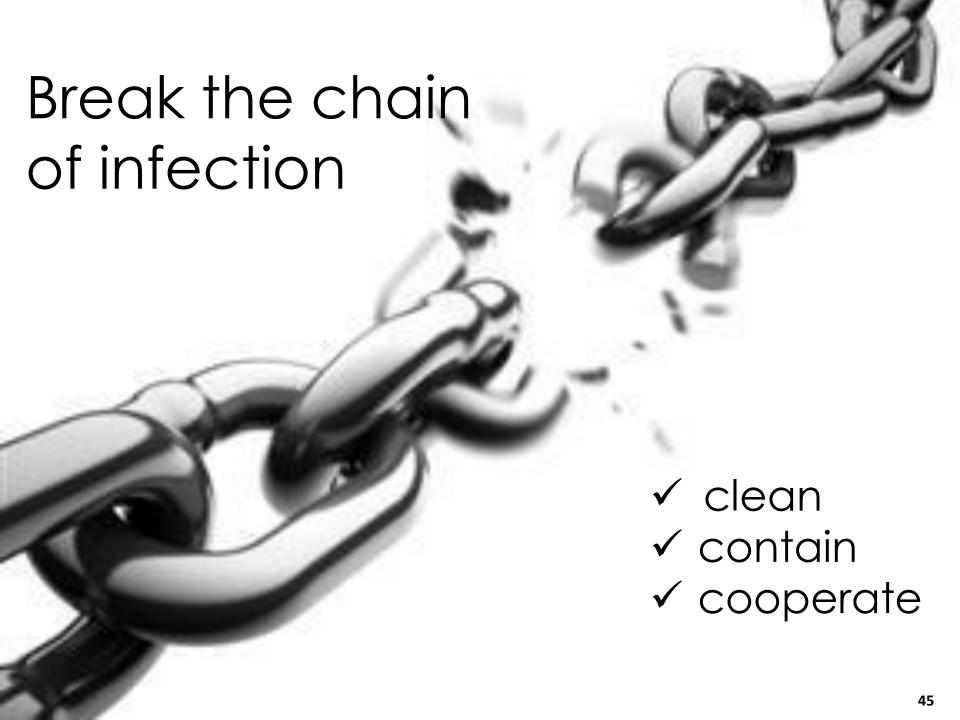


Alimentary tract











Clean & disinfect

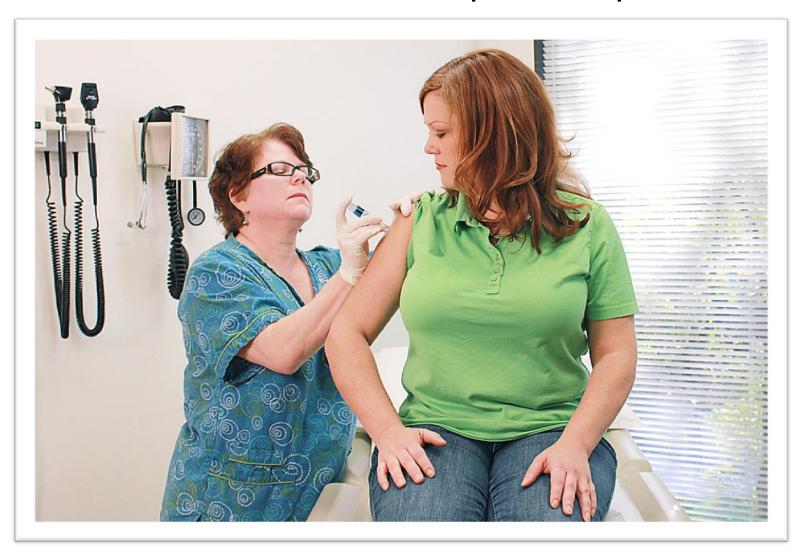
- ✓ Frequently touched surfaces
 - Door knobs
 - Diaper changing tables
 - Cabinet handles
- ✓ Equipment
 - Lifts
 - Wheelchairs
 - Mats
 - Slings

You can't disinfect dirt....





Contain organism spread by vaccination of susceptible persons



Use personal protective equipment (PPE)







Infection risks in schools can be effectively decreased by:

- Maintaining a clean environment
- Containing infective organisms
- ✓ Maximizing cooperation

References

- CDC (2014). Guide to Infection Prevention for Outpatient Settings.
- CDC (2015). Carbapenem-resistant
 Enterobacteriaceae (CRE) Infection: Patient FAQs.
- CDC (2013). Information and Advice about MRSA for School and Daycare Officials.
- CDC (2009). MDRO Prevention and Control.
- CDC (2011). Infectious Diseases at School.

Helpful Resources

- Aronson, S.S. & Shope, T.R. (2013). Managing Infectious Diseases in Child Care and Schools, 3rd ed. American Academy of Pediatrics.
- Caring for our children: National health and safety performance standards; Guidelines for early care and education programs, 3rd ed. American Academy of Pediatrics 1117/mm.