

# Jackson County Health Department

## Spread of Infectious Disease

### Five Modes of Transmission



There are five ways that infectious diseases are spread from one person to another. They are: airborne, bloodborne/body fluids, droplet, direct contact, and fecal-oral. Each disease follows one of these modes of transmission.

**AIRBORNE DISEASES:** Fine moist particles are coughed, sneezed or expelled into the air by an infected person and inhaled into the body of a susceptible person.

**Example:** Influenza (flu), Chickenpox, Tuberculosis (TB), and Mumps

**Prevention:** A sick person should cover their mouth when coughing or sneezing, or cough into their elbow or sleeve. They should wash their hands frequently with soap and water. Others should avoid contact with the person while they are ill.

**BLOOD-BORNE/BODY FLUIDS:** Germs carried in blood and other body fluids of an infected person get into the body of another person. Some methods of transmission are needle and razor sharing, unsafe sex, and splashed body fluids onto cuts or mucous membranes (eyes, mouth).

**Examples:** Hepatitis B, Hepatitis C, HIV, Gonorrhea and Chlamydia

**Prevention:** Assume that all body fluids are infectious and avoid contact (wear latex gloves when in contact with fluids, use condoms or barriers during sexual intercourse). Clean surfaces with a solution of 1 part bleach to 10 parts water (make this solution fresh daily). Never share needles, razors, or toothbrushes.

**DIRECT CONTACT:** Diseases are spread when an infected person touches someone or something. This includes objects like hats, combs, car seats, bed linens, towels.

**Examples:** pinkeye, ringworm, scabies, lice, pinworm, mucus membranes, or break in the skin.

**Prevention:** Limit contact with the skin of other individuals. Do not share combs, brushes, towels, or toothbrushes with others. Wash your hands immediately after contact with an infected person's skin or belongings.

**DROPLET (mucus and secretions):** Sneezing and

coughing spread the droplets from the nose, mouth and throat; these germ-filled secretions fall on all surfaces. When someone touches these infected surfaces they contaminate their hands, and then infect themselves by touching their own nose or mouth.

**Example:** Common Colds

**Prevention:** The sick person should cover their mouth (with a disposable tissue or sleeve) when coughing or sneezing and then wash their hands. Dispose of used tissues in the trash container. Make sure to wash your hands with soap and water after touching items used by someone who is sick.

**FECAL-ORAL:** Very small particles of germs from feces may be on the hands of sick individuals after bowel movements. These small particles may be transferred to toilet handles, water faucets, door knobs, and food when touched by an ill person. Someone touching these same items or eating food prepared by an ill person may become ill.

**Examples:** Hepatitis A, Giardia, Shigellosis, Salmonella and E-Coli

**Prevention:** Clean potentially infected surfaces with a solution of 1 part bleach to 10 parts water (make this solution fresh daily). Wash your hands after using the bathroom and immediately before preparing food.

**Note:** *Infected food handlers, health care workers, and day care attendees or workers should be excluded until symptoms have subsided and stool samples test negative.*

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