Infection Prevention and Control

Infection Control in the Healthcare Setting:
- Chain of Infection
- Hand Hygiene
- Hospital Acquired Infections
- Isolation
- Exposures
- Tuberculosis

Chain of Infection

Most Common Mode of Pathogen Transmission

HANDS!
Specific Indications for Hand Hygiene

- Before:
  - Patient Contact
- After:
  - Patient Contact
  - Contact with body fluids or excretions, non-intact skin, wound dressings
  - Removing gloves

Recommended Hand Hygiene Techniques

- Hand rubs
  - Apply to palm of one hand, rub hands together covering all surfaces until dry
  - Volume: based on manufacturer
- Handwashing
  - Wet hands with water, apply soap, rub hands together for at least 15 seconds
  - Rinse and dry with disposable towel
  - Use towel to turn off faucet

Types of Bacteria

- Gram Positive – staph
  - epidermidis
- Gram Negative – e. coli, Klebsiella
- Gram Positive Resistant
  - MRSA
- Gram Negative Resistant
  - VRE
- ESBL + (e. coli, klebsiella)

Blood and Body Fluids

- Exposure
  - Transmission is rare but possible
  - High risk procedures, splash or aerosolized procedures
  - Wear gloves, give patient a plastic bag or basin, get them admitted quickly
  - Use the spill kit, followed by sanitizing the area with hospital disinfectant
- Report exposures within 2 hours to University Health, Nursing Admin after hours
Contact Precautions

All VISITORS please report to the Nurses Station

Instructions:
- Wash hands or use alcohol gel prior to entry and after glove removal.
- Private room or cohort.
- Personal Protective Equipment REQUIRED:
  - Gowns & Gloves **ALWAYS when entering a room**
  - When transporting patient.
  - Use PPE according to Standard Precautions.
  - Try to avoid transmission of infection on patient.
  - NOTIFY RECEIVING DEPARTMENT

HANDS MUST BE WASHED AFTER REMOVING GLOVES

Droplet Precautions

All VISITORS please report to the Nurses Station

Instructions:
- Private room.
- Wash hands on entry and when leaving room.
- Personal Protective Equipment REQUIRED
  - YELLOW SURGICAL MASK
  - (INDICATED WHEN WITHIN 3 FEET OF PATIENT)
- When transporting a patient:
  - Apply surgical mask to patient.
  - Limit persons on elevator.
  - NOTIFY RECEIVING DEPARTMENT

HANDS MUST BE WASHED AFTER REMOVING GLOVES

Airborne Precautions

All VISITORS please report to the Nurses Station prior to entering.

Instructions:
- Wash hands before entry & when leaving room.
- Private room with negative pressure air exchange.
- Room doors to be kept closed.
- Personal Protective Equipment REQUIRED:
  - N95 RESPIRATOR MASK or HEPA HOOD
  - When transporting patient.
  - Apply surgical mask to patient.
  - Limit persons on elevator.
  - Wear PPE according to Standard Precautions.
  - NOTIFY RECEIVING DEPARTMENT

HANDS MUST BE WASHED AFTER REMOVING GLOVES.

Infection Prevention and Control

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Performance Improvement

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**Goals of Performance Improvement (PI)**

- Improve processes
- Improve teamwork
- Increase patient satisfaction
- Meet Joint Commission requirements
- Align with the mission of UTMC

**The Joint Commission**

- The Joint Commission evaluates and accredits nearly 17,000 health care organizations and programs in the United States, including the University of Toledo Medical Center
- UTMC undergoes an unannounced on-site survey by a Joint Commission survey team at least every three years

**Examples of PI Projects**

- Patient fall reduction
- Use of 2 patient identifiers
- Timeliness of critical test results
- Other National Patient Safety Goals (NPSGs)

**National Patient Safety Goals**

- The purpose of the Joint Commission's National Patient Safety Goals (NPSGs) is to promote specific improvements in patient safety
- See the 2010 NPSG Handout

**Occurrence Report**

- Used to document an event when it occurs
- To be completed within 24 hours of the event
- Used to identify and reduce risk

**Questions?**