

## **OCCUPATIONAL HAZARDS for Surgical Services**

There are many occupational hazards that are inherent to working in surgery. Students in their clinical rotations, and even students in the simulation lab setting, will be subject to any or all of the following:

- Exposure to blood and bodily fluids, infectious waste, and bloodborne pathogens.
- Exposure to infectious diseases including, but not limited to HIV, Hepatitis B and C, influenza, COVID-19, tuberculosis, MRSA, measles, mumps, rubella, tetanus, diphtheria, pertussis, varicella.
- Injury from contaminated sharps.
- Injury from shocks, burns, or eye damage related to electrosurgical devices and lasers.
- Musculoskeletal injuries from required standing, lifting and pulling.
- Exposure to anesthetic gases and compressed gases.
- Exposure to surgical smoke plumes including toxic chemicals and by-products such as hydrogen cyanide, toluene, perchloroethylene, benzene, formaldehyde, and ethylbenzene.
- Exposure to teratogens including cytotoxic compounds, chemical agents, sterilizing agents, cleaning agents, preserving agents, and fixing agents.
- Exposure to hormones (e.g., prostaglandins and progesterone).
- Exposure to ionizing radiation and other sources of radioactive materials.