Immediate Use Steam Sterilization (IUSS)

Henry Ford Hospital

IUSS Process

- All instruments needed for IUSS are decontaminated, inspected, assembled and containerized in the Central Sterile Processing department at Henry Ford Hospital.
- The circulating nurse or surgical technologist places the container into an OR sterilizer and selects either Cycle 1 or Cycle 2 and completes the OR IUSS Log.
- The OR IUSS sterilization cycle is complete once the container is transported into the OR by the circulating nurse and opened. The sterile and surgical technologist inspect the internal process indicators and internal chemical integrator for the appropriate color change.
- If the instruments have been sterilized by IUSS the container must be opened even if it is not used. IUSS cycles do not have a significant dry time and cannot be stored for later use.
- Always complete the IUSS log for every instrument or instrument set that have been sterilized by IUSS for validation and tracking. For instruments, even if a single IUSS cycle is completed, the IUSS Log is completed on a monthly basis.

IUSS Sterilization Cycles

- Cycle 1: 6 min Sterilization at 270°F w/ 1 minute dry
- Cycle 2: 10 min Sterilization at 270°F w/ 1 minute dry

From start to finish approximately 17 minutes.
- This cycle is used for the majority of the time for IUSS.

- Cycle 1: 6 min Sterilization at 270°F w/ 1 minute dry
- Cycle 2: 10 min Sterilization at 270°F w/ 1 minute dry

From start to finish approximately 21 minutes.
- This cycle is used for items that require a longer sterilization time and implants when absolutely necessary.

Operating Room PreVacuum Sterilization Process

- Nightly Bowie Dick Test (DART Daily Air Removal Test)
- Nightly BI Test w/ Attest Rapid 5 Steam-Plus Pack

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Operating Room PreVacuum IUSS Sterilization Cycles

- PreVac Cycle 1: 6 min Sterilization at 270°F w/ 1 minute dry
- From start to finish approximately 17 minutes.
- This cycle is used the majority of the time for IUSS.

- PreVac Cycle 2: 10 min Sterilization at 270°F w/ 1 minute dry
- From start to finish approximately 21 minutes.
- This cycle is used for items that require a longer sterilization time and implants when absolutely necessary.

Rigid container for IUSS

Instruments are contained for sterilization in OR PreVacuum cycles in rigid containers with single use filters that have been validated for IUSS.

% Rate of IUSS

- IUSS %

Henry Ford Hospital

Note: The number of IUSS cycles per month divided by the number of cases.