Measure Abbreviation: SUS 01

Description: Percentage of cases with mean fresh gas flow (FGF) equal to, or less than 3L/min, during administration of halogenated hydrocarbons and/or nitrous oxide.

NQS Domain: Efficiency and Cost Reduction

Measure Type: Process

Measure Summary: SUS01 measures Fresh Gas Flow (FGF) during administration of halogenated hydrocarbons and/or nitrous oxide, as an indirect measure of anesthetic gas waste. For a given case, this measure will include the maintenance period of anesthesia, defined as the time between placement of an endotracheal tube or supraglottic airway and removal of the endotracheal tube or supraglottic airway. This measure will exclude pre-oxygenation (before placement of the airway device) and emergence defined as the time when the fraction of inspired halogenated hydrocarbons and nitrous oxide is 0.

Rationale: Halogenated agents and nitrous oxide leaking or vented into the atmosphere are environmental pollutants. Reducing fresh gas flows can reduce cost of anesthesia without compromising patient care.

Inclusions: Patients administered halogenated hydrocarbons and/or nitrous oxide, for greater than or equal to 30 minutes from placement of the airway device to removal of the airway device.

Exclusions:

- Cases in which halogenated hydrocarbons and nitrous oxide are NOT used
- Cases with maintenance period < 30 minutes
- Cases with >20% of Fresh Gas Flow values manually entered during the case (automated capture of FGF required)

Success: Mean FGF equal to, or less than 3L/minute when inspired halogenated hydrocarbons is >0.2%, or nitrous oxide FGF >0.2L/min, during the maintenance period of anesthesia.

Threshold: 90%.

Responsible Provider(s): All providers signed in for at least 30 minutes during the time when halogenated agent or nitrous oxide are documented.

Risk Adjustment (for outcome measures):
Not applicable.
References:


