SUS-01: Percentage of patients with mean Fresh Gas Flow ≤ 3L/min, during administration of halogenated hydrocarbons and/or nitrous oxide.

START:
Patients administered halogenated hydrocarbons and/or nitrous oxide, for ≥ 30 minutes from placement of airway to removal of airway.

1. ETT or LMA NOT placed? (determined by the Anesthesia Technique: General Phenotype)
   - Yes: Exclude
   - No: Next step

2. Nitric oxide use documented?
   - Yes: Exclude
   - No: Next step

3. Halogenated hydrocarbons and nitrous oxide NOT administered?
   - Yes: Exclude
   - No: Next step

4. Maintenance period < 30 minutes?
   - Yes: Exclude
   - No: Next step

5. >20% Fresh Gas Flow values manually entered during case?
   - Yes: Exclude
   - No: Next step

6. Mean FGF < 3L/min when inspired halogenated hydrocarbons is > 0.2% or nitrous oxide FGF > 0.2L/min, during maintenance period of anesthesia? *
   - Yes: Pass
   - No: Flag

* FGF will only be considered for those minutes between intubation and extubation that also have an inhaled agent running. Values within these ranges will be considered artifact and the minute will be included:
  - Nitrous Oxide Flows: <0.2L/min
  - Isoflurane Insp%: <0.3%
  - Sevoflurane Insp%: <0.4%
  - Desflurane Insp%: <1.2%
  - Nitrous Oxide Insp%: <20%
SUS-01: Percentage of cases with a mean fresh gas flow (FGF) < 3L/min, during administration of halogenated hydrocarbons and/or nitrous oxide.

**Measure Start:**
- Intubation: If not available, then
- Induction End

**Measure End:**
- Latest Extubation Time: If not available, then
- Latest LMA Removal Time: If not available, then
- Surgery End: If not available, then
- Patient Out of Room: If not available, then
- Anesthesia End

*Values for flows and gases will be assessed and considered artifact if inside the following ranges:
- Nitrous Oxide Flow: < 0.2L/min
- Sevoflurane Iop %: < 0.3%
- Isoflurane Iop %: < 0.4%
- Enflurane Iop %: < 1.2%

To Calculate Mean FGF:
1. Determine which flow values to include by identifying minutes where FGF and non-artifact inhaled agent or nitrous oxide are documented.
2. Add all included FGF values and divide by the total number of included minutes.

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**SUS-01: Fresh Gas Flow, less than or equal to 3L/min**

Start

- All patients

*Exclude*

**ETT or LMA placed determined by Anesthesia Technique: General**

*Exclude*

**Halogenated hydrocarbons or nitrous oxide administered**

*Exclude*

**30 minutes of halogenated hydrocarbons and/or nitrous oxide administered between intubation and extubation**

*Exclude*

**Nitric oxide use documented**

*Exclude*

**> 20% of FGF values manually entered during the case**

*Exclude*

**Mean FGF ≤ 3L/min for entire time**

*Pass*

**Flag**