



Measure Abbreviation: MED 01

Measure Description: Percentage of cases that avoided medication overdose requiring the use of naloxone or flumazenil.

NQS Domain: Patient Safety

Measure Type: Outcome

Measure Summary: MED 01 is an outcome measure that identifies intraoperative medication overdose by monitoring the administration of opioids and/or benzodiazepines and the administration of their reversals: flumazenil and naloxone. Flumazenil is given for benzodiazepine overdose. Naloxone is given for opioid overdose. The time period for this measure is Anesthesia Start to Anesthesia End. PACU time is not included currently.

Inclusions: All cases in which opioids or benzodiazepines were administered during the intraoperative period.

Exclusions:

- ASA 5 and 6 cases.
- Patients not given opioids or benzodiazepines during the intraoperative period.
- Cases where naloxone or flumazenil is administered before the first dose of opioid/benzodiazepine.
- Patients that are still intubated at anesthesia end.
- ECT cases.

Success: The percentage of cases with no administration of naloxone or flumazenil.

Special Considerations: If naloxone was given as an infusion AND as a bolus, the case fails due to the bolus. If naloxone is only given as an infusion, then the case is still evaluated for flumazenil. Patients receiving naloxone as in infusion indicate naloxone is being infused for pruritus for neuraxial technique.

Threshold: 95%.

Responsible Provider: The provider signed in for the longest portion of the case.

Risk Adjustment (for outcome measures):

Not Applicable.

References:

1. Lee LA, Caplan RA, Stephens LS, Posner KL, Terman GW, Voepel-Lewis T, Domino KB. Postoperative opioid- induced respiratory depression: A closed claims analysis. *Anesthesiology*. 2015;122(3):659-665.
2. Ramachandran SK, Haider N, Saran KA, Mathis M, Kim J, Morris M, O'Reilly M. Life-threatening critical respiratory events: A retrospective study of postoperative patients found unresponsive during analgesic therapy. *J Clin Anesth*. 2011;23:207–13.