Measure Title:

**Quantum 31: Central Line Ultrasound Guidance**

**Measure Description**
Percentage of patients, regardless of age, in whom ultrasound guidance is used by the anesthesia clinician when placing a central line for those central lines that are placed in the internal jugular location.

**NQS Domain**
Patient Safety

**Instructions:**
This measure is to be reported each time an anesthesia clinician places a central line in the internal jugular location. Performance of this metric requires clinician documentation that ultrasound guidance was performed at the time of central line placement.

**Measure Reporting via the Qualified Clinical Data Registry**
CPT codes and patient demographics are used to identify patients who are included in the measure's denominator. Registry codes are used to report the numerator of the measure.

**Denominator**
All patients, regardless of age, who undergo internal jugular central line placement by the anesthesia clinician.

**Denominator Criteria (Eligible Cases):**
- All patients, regardless of age
- **AND**
  - Patient encounter during the reporting period (CPT):
    - 36555, 36556, 36557, 36558, 36560, 36561, 36563, 36565, 36566, +76937, 93503
- **AND**
  - Internal jugular site insertion

**Denominator Exclusions / Exceptions:** None

**Numerator:**

**Numerator Definition:** Use of ultrasound guidance during the central line insertion when central line is placed at the internal jugular site.

**Numerator Quality-Data Coding Options for Reporting Satisfactorily**

**Performance Met:**

- **Mednax 52A:** Clinician used ultrasound guidance during central line placement when internal jugular site used.

**OR**

**Performance Not Met:**

- **Mednax 52C:** Clinician did not use ultrasound guidance during central line placement when internal jugular site used.
The use of ultrasound to guide central venous cannulation has been shown to decrease adverse events including but not limited to decreased risks of cannulation failure, arterial puncture, hematoma, and hemothorax. Benefits that relate to ultrasound guidance are most appreciable for internal jugular site insertion in contrast to either subclavian or femoral insertion.

References: