

AQI51 Assessment of Patients for Obstructive Sleep Apnea

Percentage of patients, aged 18 years and older, who underwent an elective procedure under anesthesia who were screened preoperatively for Obstructive Sleep Apnea (OSA) using a standardized tool prior to the procedure.

2018 OPTIONS FOR INDIVIDUAL MEASURES:

**Advance QCDR, Anesthesia Quality Institute (AQI)
National Anesthesia Clinical Outcomes Registry
(NACOR), Anesthesia Quality Registry, SCG Health**

NATIONAL QUALITY STRATEGY DOMAIN: Patient Safety

MEASURE TYPE: High Priority

INSTRUCTIONS:

This measure is to be reported each time a patient undergoes an elective procedure under anesthesia during the reporting period. It is anticipated that qualified anesthesia providers and eligible clinicians who provide denominator eligible services will submit this measure.

DENOMINATOR:

Patients, aged 18 years and older, who underwent an elective procedure* under anesthesia

Definition: Any procedure including surgical, therapeutic or diagnostic

Denominator criteria (Eligible Cases):

Patients, aged 18 and older, who undergo a procedure under anesthesia

AND

Elective surgery: **G9643**

AND

Patient encounter during the reporting period (CPT): 00100, 00102, 00103, 00104, 00120, 00124, 00126, 00140, 00142, 00144, 00145, 00147, 00148, 00160, 00162, 00164, 00170, 00172, 00174, 00176, 00190, 00192, 00210, 00211, 00212, 00214, 00215, 00216, 00218, 00220, 00222, 00300, 00320, 00322, 00350, 00352, 00400, 00402, 00404, 00406, 00410, 00450, 00454, 00470, 00472, 00474, 00500, 00520, 00522, 00524, 00528, 00529, 00530, 00532, 00534, 00537, 00539, 00540, 00541, 00542, 00546, 00548, 00550, 00560, 00562, 00563, 00566, 00567, 00580, 00600, 00604, 00620, 00625, 00626, 00630, 00632, 00635, 00640, 00670, 00700, 00702, 00730, 00731, 00732, 00750, 00752, 00754, 00756, 00770, 00790, 00792, 00794, 00796, 00797, 00800, 00802, 00811, 00812, 00813, 00820, 00830, 00832, 00840, 00842, 00844, 00846, 00848, 00851, 00860, 00862, 00864, 00865, 00866, 00868, 00870, 00872, 00873, 00880, 00882, 00902, 00904, 00906, 00908, 00910, 00912, 00914, 00916, 00918, 00920, 00921, 00922, 00924, 00926, 00928, 00930, 00932, 00934, 00936, 00938, 00940, 00942, 00944, 00948, 00950, 00952, 01112, 01120, 01130, 01140, 01150, 01160, 01170, 01173, 01200, 01202, 01210, 01212, 01214, 01215, 01220, 01230, 01232, 01234, 01250, 01260, 01270, 01272, 01274, 01320, 01340, 01360, 01380, 01382, 01390, 01392, 01400, 01402, 01404, 01420, 01430, 01432, 01440, 01442, 01444, 01462, 01464, 01470, 01472, 01474, 01480, 01482, 01484, 01486, 01490, 01500, 01502, 01520, 01522, 01610, 01620, 01622, 01630, 01634, 01636, 01638, 01650, 01652, 01654, 01656, 01670, 01680, 01710, 01712, 01714, 01716, 01730, 01732, 01740, 01742, 01744, 01756, 01758, 01760, 01770, 01772, 01780,

01782, 01810, 01820, 01829, 01830, 01832, 01840, 01842, 01844, 01850, 01852, 01860, 01916, 01920, 01922, 01924, 01925, 01926, 01930, 01931, 01932, 01933, 01935, 01936, 01951, 01952, 01953, 01958, 01960, 01961, 01962, 01963, 01965, 01966, 01967, 01968, 01969, 01991, 01992

Denominator Exclusions:

- Patients with previous diagnosis for Obstructive Sleep Apnea (OSA): **G47.33**
- Patients receiving CPAP treatment: **Z99.89**
- Mechanically ventilated patients: **Z99.11**
- Intubated patients: **Z97.8**

NUMERATOR:

Patients who are screened preoperatively for Obstructive Sleep Apnea (OSA) using a standardized tool prior to the surgical procedure.

Numerator Note: High-risk is defined by screening tool utilized. Standardized tools for Obstructive Sleep Apnea include STOP-Bang Questionnaire, Berlin Questionnaire, P-SAP Score and the ASA OSA Patient Screening Tool Checklist. Although it is preferable to use one of the standardized tools listed above, at a minimum an assessment tool must assess the following components: snoring, daytime tiredness, breathing obstruction and hypertension.

Numerator Note: Obstructive Sleep Apnea assessment can be conducted by a physician anesthesiologist, other qualified anesthesia provider or proxy.

Numerator Options:

Performance met:

Patient was screened preoperatively for Obstructive Sleep Apnea (OSA) using a standardized tool prior to the procedure. **(10A20)**

OR

Performance Not Met:

Patient was not screened preoperatively for Obstructive Sleep Apnea (OSA) using a standardized tool prior to the procedure **(10A21)**

WHAT DATA SOURCES ARE USED FOR THE MEASURE? Claims/Paper Medical Record, Registry

STEWARD: American Society of Anesthesiologists (ASA) / Anesthesia Quality Institute (AQI)

OF PERFORMANCE RATES TO BE SUBMITTED IN THE XML: 1

Indicate an Overall Performance Rate if more than 1 performance rate is to be submitted: NA

INVERSE MEASURE: No

PROPORTION MEASURE SCORING OR CONTINUOUS MEASURE SCORING

RISK ADJUSTED: No

RATIONALE:

Quoted Verbatim: Undiagnosed OSA may pose a variety of problems for anesthesiologists and qualified anesthesia providers. A number of case reports have documented an increase in the incidence of postoperative complications and deaths among patients suspected of having OSA. Untreated OSA patients are known to have a higher incidence of difficult intubation, postoperative complications, increased intensive care unit admissions, and greater duration of hospital stay. Identifying patients with OSA is the first step in preventing postoperative complications due to OSA.ⁱ

Moderate-to-severe sleep apnea is independently associated with a large increased risk of all-cause mortality, incident stroke, and cancer incidence and mortality in this community-based sample.ⁱⁱ

WORKS CITED:

ⁱ Chung, F. et. al, 2016. “Society of Anesthesia and Sleep Medicine guidelines on preoperative screening and assessment of adult patients with obstructive sleep apnea.” *Anesth Analg*, 123 (2): 452-473.

ⁱⁱ Marshall, N.S., et. al., 2014. “Sleep apnea and 20-year follow-up for all-cause mortality, stroke, and cancer incidence and mortality in the Busselton Health Study cohort.” *J Clin Sleep Med*, 10 (4): 355-362. Ferran NA, Maffulli N. Epidemiology of sprains of the lateral ankle ligament complex. *Foot Ankle Clin*. 2006;11:659–62.

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