Obstructive Sleep Apnea (OSA) & Pre-Surgical Screening

Facts & Findings to Support Presurgical Screening for OSA

» Anesthetics/pain medications can prevent waking when oxygen levels are low, resulting in respiratory arrest.⁵
» OSA is more prevalent in surgical populations and bariatric surgery patients are at particularly high risk.²,⁴
» Barnes-Jewish Hospital study found that 23% of surgical patients had OSA—76% of those were undiagnosed.⁵
» Undiagnosed patients are at increased risk of perioperative complications.⁴
» In 2001, the Mayo clinic found those with OSA suffered more serious complications or needed unplanned ICU transfers than non-OSA patients.³
» Pre-procedure identification of OSA improves perioperative outcomes.¹
» The American Society of Anesthesiologists (ASA) Task Force recognizes the impact OSA may have on surgical outcomes and has published surgical management guidelines.¹
» The Joint Commission proposed perioperative screening in 2007, but there were no adequate, cost-effective screening tools at the time.

SatScreen is the Solution

Accurate & Cost-Effective
Results Generated in Minutes
Indicates Arousal Failure & Hypoventilation Syndromes
Highlights Frequency of Events & Severity of O2 Desaturations

SatScreen- Easy for Patients & Staff

Easy for Patients
» Patients in the at-risk category are sent home with the pulse oximeter for an overnight trial.
» The patient sleeps with the pulse oximeter on & returns it to the physician’s office.

Simple for Staff
» A staff member downloads the oximetry data.
» A printable PDF report generates in a matter of minutes.
» Physicians can review the printed report or log on to SatScreen’s web portal to view results.
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Problems with Common Screening Methods

Questionnaires

- Subjective
- Simplistic Stratification - i.e. High or Low Risk
- Vast Majority are High Risk in Certain Surgical Populations

Lab-based Polysomnography

- Costly
- Impractical for Screening
- Can Take Days or Weeks to Receive Results

Advantages of SatScreen

SatScreen Reports:

- Highly sensitive & specific.
- Display the RDI; breaking down the more & less severe event types.
- Provide detailed information on desaturations & the cyclical patterns indicative of diminished arousal response.
- SatScreen’s Subjective - Objective Screening (S.O.S.) Pathway provides SatScreen users with an easy to implement & cost effective screening solution.
Obstructive Sleep Apnea (OSA)-Implementing Screening Protocol

S.O.S. (Subjective-Objective Screening) Pathway

“SOS”
Pre-op Subjective-Objective Screen
Sleep Apnea, Hypoventilation & Arousal Failure

Subjective Screen
» Use questionnaire (e.g. STOP-BANG; Berlin) to screen everyone.

Objective Screen
» Oximetry (e.g. SatScreen) devices are widely used because of affordability, high predictive value, & minimal patient impact.

Implementation of a Successful Screening Program

Many organizations include pre-surgical OSA screening as part of a pre-surgical consultation or work-up. However, because SatScreen only requires a brief period patient interaction & the patient can drop off the device the following day, screening may be completed at nearly any point up to the surgery.

Questions?
We want to help you make your organization’s OSA screening program a success.
Please contact us at:
1-888-666-0635
support@patientsafetyinc.com
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References & Suggested Readings:


5. Apnea patients at higher risk in surgery; Hospital screens and flags those with condition for careful monitoring. The Associated Press. 5 Updated: 11:01 p.m. ET Sept 8, 2006