Obstructive Sleep Apnea Registry: Searching for the Light *Early Case Insights*

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Disclosures

Research Funding

- Society of Anesthesia and Sleep Medicine (SASM): OSA Death and Near Miss Registry
- Anesthesia Quality Institute (AQI): Anesthesia Closed Claims Project
- American Society of Anesthesiologists Committee on Professional Liability: Annual Malpractice Premium Survey













Data Security

- IRB approval UW, MetroHealth, UM •
- De-identified Case Reports
- · Access to Data only by IRB approved investigators & staff:
 - ✓ Bolden MetroHealth
 - ✓ Ramachandran UM
 - ✓ Posner UW
 - ✓ Domino UW
- SASM OSA Committee --- NO ACCESS TO CASE REPORTS – Only aggregate data



Data Security Protection from Discovery

Description

Effective Health Care Program

istries for luating Patient

Second Editi

Outcomes: A User's Guide

A ANAD

The Postoperative Visual Loss (POVL) Registry consists of anonymous case reports of blindness after non-ophthalmologic surgery. Its goal is to identify patient and clinical factors associated with this complication.

Results The university supported an appeal to the state supreme court in order to support institutional protections of research data. The state supreme court ruled that ... release of the underlying data was not required.



Examples of Aggregate Data and Lessons Learned from Registry Data





itients in OSA Reg	gistry Ca
Female	n%
BMI (mean ± SD)	N + n
ASA physical status 1-2	n%
Age (mean ± SD), yr	N±n
Patient ≥ 50 yr. old	n%
Race	
Black/African-American	n%
White/Caucasian	n%
Latino/Hispanic	n%
Native American	n%
Asian	n%
Example for illus	tration











Postoperative Opioid-induced Respiratory Depression

A Closed Claims Analysis

PAIN MEDICINE

Lorri A. Lee, M.D., Robert A. Caplan, M.D., Linda S. Stephens, Ph.D., Karen L. Posner, Ph.D., Gregory W. Terman, M.D., Ph.D., Terri Voepel-Lewis, Ph.D., R.N., Karen B. Domino, M.D., M.P.H.

What We Already Know about This Topic

- Postoperative opioid-related respiratory depression is an important cause of latrogenic nijury in the perioperative period
 Risk factors for this injury are numerous and not applicable to all patients who develop respiratory depression

Lee LA, et al. Anesthesiology 2015: 122:659-65





Medication Factors Associated with Respiratory Depression

PCA only	18%
Neuraxial only	17%
Other only	17%
Multimodal	47%
Continuous infusion of opioids	46%
Interaction of opioid + non-opioid sedative medications	34%
More than one physician prescribing	33%
Excessive opioid use	16%















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What This Article Tells Us That Is New

 In a review of 357 acute pain claims from the Anesthesia Closed Claims Project database, 92 cases involved likely oplold-related repiratory depression
 The vast majority of these injuries occurred within 24 h of surgery and 97% were judged as preventable with better monitoring and response

(ANESTHESIOLOGY 2015; 122:659-65)

Clinical Lessons From Opioid-Induced **Respiratory Depression Claims**

- First 24 hours-not just OSA patients
- Sedation: nursing assessments
- Continuous monitoring-centralized alarms
- Institutional policies Prescribing physicians

SUSPENSE.

- · Interaction with non-opioid sedating meds
- Prevention (non-opioid analgesics)
- Education (providers and patients)

Clinical Lessons From The OSA Death and Near Miss Registry

- We need 100+ cases!
- · Send in your cases



- Come back next year...

THANK YOU!