



## **Society of Anesthesia and Sleep Medicine (SASM)**

**[www.sasmhq.org](http://www.sasmhq.org)**

**Founded:** 2010

**Membership:** 1,349

**Mission Statement:**

The mission of the Society of Anesthesia and Sleep Medicine (SASM) is to advance standards of care for clinical problems shared by Anesthesiology and Sleep Medicine, including peri-operative management of sleep disordered breathing, and to promote interdisciplinary communication, education and research in matters common to anesthesia and sleep.

**Annual Meeting:**

1-1.5 days meeting with workshops held annually since 2011. Meeting precedes the annual American Society of Anesthesiologists (ASA) meeting in October. Average 35-40 abstracts presented and 15 -18 presentations.

**Journal:**

The International Anesthesia Research Society's (IARS) *Anesthesia and Analgesia (A&A) Journal*. Sleep Section is run by SASM with SASM member as Section Editor.

**Affiliations:**

American Society of Anesthesiologists (ASA), International Anesthesia Research Society (IARS), American Academy of Sleep Medicine (AASM), American College of Chest Physicians (ACCP), American Academy of Pediatrics (AAP), American Society for Pain Management Nursing (ASPMN), Basics of Pediatric Anesthesia, Canadian Pediatric Anesthesia Society (CPAS)



### **Guidelines Produced:**

- 1) Chung F, Memtsoudis SG, Ramachandran SK, et al. Society of Anesthesia and Sleep Medicine Guidelines (SASM) on Preoperative Screening and Assessment of Adult Patients with Obstructive Sleep Apnea. *Anesth Analg*. 2016;123(2):452–473.
- 2) Memtsoudis SG, Cozowicz C, Nagappa M, et al. Society of Anesthesia and Sleep Medicine Guideline (SASM) on Intraoperative Management of Adult Patients with Obstructive Sleep Apnea. *Anesth Analg*. 2018;127(4):967–987.

### **Guidelines in process:**

- 1) SASM Pediatric Anesthesia Guidelines: Dr. Kimmo Murto, Chair
- 2) SASM OB Guidelines: Dr. Jennifer Dominguez, Chair

### **Newsletter:**

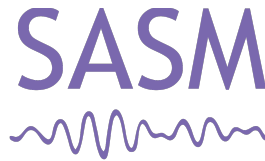
Produced 2-3 times per year and posted on the website.

### **Scientific updates:**

Literature updates produced quarterly and posted on the website.

### **Educational materials:**

- 1) SASM Educational Document:  
Recommendations for Management of Obstructive Sleep Apnea in the Perioperative Period. Available in 3 versions – long, brochure, nonMD version.
- 2) OSA Perioperative Help Sheet.
- 3) OSA, Anesthesia, and Surgery Patient Education Brochure.
- 4) Slide sets:
  - a. OSA

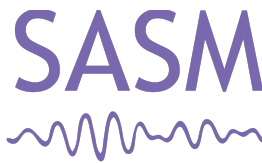


- b. Periop OSA
- c. Periop PAP therapy
- d. Opioids Respiratory Depression

**Selected Bibliography (most recent listed first):**

*(Collaborations resulting from interactions within SASM and/or publications from present and past Board of Directors members)*

- 1) Perioperative Screening for Sleep Apnea: The New Frontier of Point-of-Care Ultrasound. Memtsoudis SG, Auckley DH. *Anesth Analg.* 2019 Dec;129(6):1454-1455
- 2) Peripheral electrical stimulation reduces postoperative hypoxemia in patients at risk for obstructive sleep apnea: a randomized-controlled trial. Smith HM, Kilger J, Burkle CM, Schroeder DR, Gali B. *Can J Anaesth.* 2019 Nov;66(11):1296-1309
- 3) Predictors of postoperative respiratory complications in children undergoing adenotonsillectomy. Katz SL, Monsour A, Barrowman N, Hoey L, Bromwich M, Momoli F, Chan T, Goldberg R, Patel A, Yin L, Murto K. *J Clin Sleep Med.* 2019 Nov 27
- 4) Regional anesthesia and pain management in patients with sleep apnea: can they improve outcomes? Cozowicz C, Stundner O, Memtsoudis SG. *Curr Opin Anaesthesiol.* 2019 Oct;32(5):683-689
- 5) BOSTN Bundle Intervention for Perioperative Screening and Management of Patients With Suspected Obstructive Sleep Apnea: A Hospital Registry Study. Raub D, Santer P, Nabel S, Platzbecker K, Munoz-Acuna R, Xu X, Friedrich S, Ramachandran SK, Eikermann M, Sundar E. *Anesth Analg.* 2019 Jul 2
- 6) Postoperative Respiratory Depression May Be Related to Undiagnosed Sleep-Disordered Breathing or Obstructive Sleep Apnea. Elleby LM, Sprung



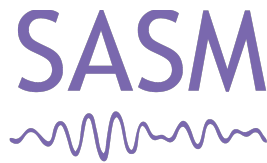
J, Weingarten TN. *Anesth Analg*. 2019 Jul;129(1):204-211. doi: 10.1213/ANE.0000000000004088.

- 7) Unrecognized Obstructive Sleep Apnea and Postoperative Cardiovascular Complications: A Wake-up Call. Auckley D, Memtsoudis S. *JAMA*. 2019 May 14;321(18):1774-1776.
- 8) Respiratory Depression Following Ambulatory Urogynecologic Procedures: A Retrospective Analysis. Gali B, Gritzner SR, Henderson AJ, Warner ME, Sibanda SL, Sprung J, Weingarten TN. *Mayo Clin Proc Innov Qual Outcomes*. 2019 May 27;3(2):169-175.
- 9) Association of Unrecognized Obstructive Sleep Apnea With Postoperative Cardiovascular Events in Patients Undergoing Major Noncardiac Surgery. Chan MTV, Wang CY, Seet E, Tam S, Lai HY, Chew EFF, Wu WKK, Cheng BCP, Lam CKM, Short TG, Hui DSC, Chung F; Postoperative Vascular Complications in Unrecognized Obstructive Sleep Apnea (POSA) Study Investigators. *JAMA*. 2019 May 14;321(18):1788-1798
- 10) Knowledge Gaps in the Perioperative Management of Adults With Narcolepsy: A Call for Further Research. Hershner S, Dauvilliers Y, Chung F, Singh M, Wong J, Gali B, Kakkar R, Mignot E, Thorpy M, Auckley D. *Anesth Analg*. 2019 Jul;129(1):204-211
- 11) Sleep Study and Oximetry Parameters for Predicting Postoperative Complications in Patients With OSA. Suen C, Ryan CM, Mubashir T, Ayas NT, Abrahamyan L, Wong J, Mokhlesi B, Chung F. *Chest*. 2019 Apr;155(4):855-867.
- 12) Narcolepsy, Anesthesia, and Sedation: A Survey of the Perioperative Experience of Patients With Narcolepsy. Hershner S, Kakkar R, Chung F, Singh M, Wong J, Auckley D. *Anesth Analg*. 2019 Nov;129(5):1374-1380.
- 13) Risk factors for opioid-induced respiratory depression in surgical patients: a systematic review and meta-analyses. Gupta K, Nagappa M, Prasad A,

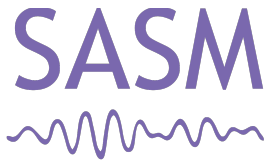


Abrahamyan L, Wong J, Weingarten TN, Chung F. *BMJ Open*. 2018 Dec 14;8(12):

- 14) Obstructive Sleep Apnea and Risk of Postcardiac Surgery Atrial Fibrillation. Kaw R, Mehra R. *Anesth Analg*. 2018 Nov;127(5):
- 15) Opioids for Acute Pain Management in Patients With Obstructive Sleep Apnea: A Systematic Review. Cozowicz C, Chung F, Doufas AG, Nagappa M, Memtsoudis SG. *Anesth Analg*. 2018 Oct;127(4):988-1001
- 16) Preventing Opioid-Induced Respiratory Depression in the Hospitalized Patient With Obstructive Sleep Apnea. Jungquist CR, Card E, Charchaflieh J, Gali B, Yilmaz M. *J Perianesth Nurs*. 2018 Oct;33(5):601-607
- 17) Is obstructive sleep apnea associated with difficult airway? Evidence from a systematic review and meta-analysis of prospective and retrospective cohort studies. Nagappa M, Wong DT, Cozowicz C, Ramachandran SK, Memtsoudis SG, Chung F. *PLoS One*. 2018 Oct 4;13(10):
- 18) Patient preference survey: are patients willing to delay surgery if obstructive sleep apnea is suspected? Ho G, Cozowicz C, Wong J, Singh M, Lam E, Mörwald EE, Hasan N, Memtsoudis SG, Chung F. *BMC Anesthesiol*. 2018 Sep 12;18(1):
- 19) Primary central sleep apnea and anesthesia: a retrospective case series. Alexa A, Mansukhani MP, Gali B, Deljou A, Sprung J, Weingarten TN. *Can J Anaesth*. 2018 Aug;65(8):884-892
- 20) Research Needs Assessment for Children With Obstructive Sleep Apnea Undergoing Diagnostic or Surgical Procedures. Murto KT, Chen W, Katz SL, Schwengel DA, Elden LM, Belani KG, Gozal D. *Anesth Analg*. 2018 Jul;127(1):198-201
- 21) Perioperative Implementation of Noninvasive Positive Airway Pressure Therapies. Hillman DR, Jungquist CR, Auckley D. *Respir Care*. 2018 Apr;63(4):479-487.

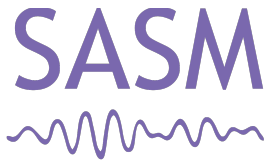


- 22) Association of opioid prescription and perioperative complications in obstructive sleep apnea patients undergoing total joint arthroplasties. Mörwald EE, Olson A, Cozowicz C, Poeran J, Mazumdar M, Memtsoudis SG. *Sleep Breath*. 2018 Mar;22(1):115-121.
- 23) Anesthetic Management of Narcolepsy Patients During Surgery: A Systematic Review. Hu S, Singh M, Wong J, Auckley D, Hershner S, Kakkar R, Thorpy MJ, Chung F. *Anesth Analg*. 2018 Jan;126(1):233-246.
- 24) Anaesthetic management of sleep-disordered breathing in adults. Hillman DR, Chung F. *Respirology*. 2017 Feb;22(2):230-239
- 25) Perioperative risks of narcolepsy in patients undergoing general anesthesia: A case-control study. Cavalcante AN, Hofer RE, Tippmann-Peikert M, Sprung J, Weingarten TN. *J Clin Anesth*. 2017 Sep;41:120-125.
- 26) Postoperative Respiratory Complications in Patients at Risk for Obstructive Sleep Apnea: A Single-Institution Cohort Study. Ramachandran SK, Pandit J, Devine S, Thompson A, Shanks A. *Anesth Analg*. 2017 Jul;125(1):272-279
- 27) Continuous positive airway pressure usage in hospitalized patients with known obstructive sleep apnea: discrepancy between admission pressure settings and laboratory-determined settings. Saini P, Klada E, Patel V, Zaw M, Dubrovsky B, George L, Bachman EM, Weingarten JA. *Sleep Breath*. 2017 May;21(2):347-353.
- 28) Outcomes Associated with Early Postoperative Noninvasive Ventilation in Bariatric Surgical Patients with Sleep Apnea. Stefan MS, Hill NS, Raghunathan K, Liu X, Pekow PS, Memtsoudis SG, Ramachandran SK, Lindenauer PK. *J Clin Sleep Med*. 2016 Nov 15;12(11):1507-1516.
- 29) Does Obstructive Sleep Apnea Influence Perioperative Outcome? A Qualitative Systematic Review for the Society of Anesthesia and Sleep Medicine Task Force on Preoperative Preparation of Patients with Sleep-Disordered Breathing. Opperer M, Cozowicz C, Bugada D, Mokhlesi B, Kaw



R, Auckley D, Chung F, Memtsoudis SG. *Anesth Analg*. 2016 May;122(5):1321-34. doi: 10.1213/ANE.0000000000001178. Review.

- 30) Suboptimal Diagnostic Accuracy of Obstructive Sleep Apnea in One Database Does Not Invalidate Previous Observational Studies. Poeran J, Cozowicz C, Chung F, Mokhlesi B, Ramachandran SK, Memtsoudis SG. *Anesthesiology*. 2016 May;124(5):1192-3.
- 31) Obstructive sleep apnea, pain, and opioids: is the riddle solved? Lam KK, Kunder S, Wong J, Doufas AG, Chung F. *Curr Opin Anaesthesiol*. 2016 Feb;29(1):134-40
- 32) CPAP in the Perioperative Setting: Evidence of Support. Chung F, Nagappa M, Singh M, Mokhlesi B. *Chest*. 2016 Feb;149(2):586-97
- 33) Postoperative Complications in Obesity Hypoventilation Syndrome and Hypercapnic OSA: CO<sub>2</sub> Levels Matter! Cooksey J, Mokhlesi B. *Chest*. 2016 Jan;149(1):11-3. doi: 10.1016/j.chest.2015.11.001.
- 34) Perioperative management of patients with obstructive sleep apnea: a survey of Canadian anesthesiologists. Cordovani L, Chung F, Germain G, Turner K, Turgeon AF, Hall R, Gay PC, Bryson GL, Choi PT; Canadian Perioperative Anesthesia Clinical Trials Group. *Can J Anaesth*. 2016 Jan;63(1):16-23
- 35) Perioperative complications in obstructive sleep apnea patients undergoing surgery: a review of the legal literature. Fouladpour N, Jesudoss R, Bolden N, Shaman Z, Auckley D. *Anesth Analg* 2016; 122 (1):145-51.
- 36) The effect of sex and age on the comorbidity burden of OSA: an observational analysis from a large nationwide US health claims database. Mokhlesi B, Ham SA, Gozal D. *Eur Respir J*. 2016 Jan 21.
- 37) Postoperative Complications in Patients With Unrecognized Obesity Hypoventilation Syndrome Undergoing Elective Noncardiac Surgery. Kaw R,



Bhateja P, Paz Y Mar H, Hernandez AV, Ramaswamy A, Deshpande A, Aboussouan LS. *Chest*. 2016 Jan;149(1):84-91.

- 38) Validation of the STOP-Bang Questionnaire as a Screening Tool for Obstructive Sleep Apnea among Different Populations: A Systematic Review and Meta-Analysis. Nagappa M, Liao P, Wong J, Auckley D, Ramachandran SK, Memtsoudis S, Mokhlesi B, Chung F. *PLoS One*. 2015 Dec 14;10(12):
- 39) Prevalence of Undetected Sleep Apnea in Patients Undergoing Cardiovascular Surgery and Impact on Postoperative Outcomes. Foldvary-Schaefer N, Kaw R, Collop N, Andrews ND, Bena J, Wang L, Stierer T, Gillinov M, Tarler M, Kayyali H. *J Clin Sleep Med*. 2015 Oct 15;11(10):1083-9.
- 40) The Impact of Untreated Obstructive Sleep Apnea on Cardiopulmonary Complications in General and Vascular Surgery: A Cohort Study. Abdelsattar ZM, Hendren S, Wong SL, Campbell DA Jr, Ramachandran SK. *Sleep*. 2015 Aug 1;38(8):1205-10.
- 41) Postoperative sleep-disordered breathing in patients without preoperative sleep apnea. Chung F, Liao P, Yang Y, Andrawes M, Kang W, Mokhlesi B, Shapiro CM. *Anesth Analg*. 2015 Jun;120(6):1214-24.
- 42) The Effects of Continuous Positive Airway Pressure on Postoperative Outcomes in Obstructive Sleep Apnea Patients Undergoing Surgery: A Systematic Review and Meta-analysis. Nagappa M, Mokhlesi B, Wong J, Wong DT, Kaw R, Chung F. *Anesth Analg*. 2015 May;120(5):1013-23
- 43) Attitudes regarding perioperative care of patients with OSA: a survey study of four specialties in the United States. Auckley D, Cox R, Bolden N, Thornton JD. *Sleep Breath*. 2015 Mar;19(1):315-25.
- 44) The impact of sleep apnea on postoperative utilization of resources and adverse outcomes. Memtsoudis SG, Stundner O, Rasul R, Chiu YL, Sun X,





Ramachandran SK, Kaw R, Fleischut P, Mazumdar M. *Anesth Analg*. 2014 Feb;118(2):407-18

- 45) Sleep-disordered breathing and postoperative outcomes after bariatric surgery: analysis of the nationwide inpatient sample. Mokhlesi B, Hovda MD, Vekhter B, Arora VM, Chung F, Meltzer DO. *Obes Surg*. 2013 Nov;23(11):1842-51
- 46) Selection of obese patients undergoing ambulatory surgery: a systematic review of the literature. Joshi GP, Ahmad S, Riad W, Eckert S, Chung F. *Anesth Analg*. 2013 Nov;117(5):1082-91
- 47) Sleep-disordered breathing and postoperative outcomes after elective surgery: analysis of the nationwide inpatient sample. Mokhlesi B, Hovda MD, Vekhter B, Arora VM, Chung F, Meltzer DO. *Chest*. 2013 Sep;144(3):903-914
- 48) Perioperative risk and management in patients with pulmonary hypertension. Minai OA, Yared JP, Kaw R, Subramaniam K, Hill NS. *Chest*. 2013 Jul;144(1):329-340.
- 49) Sleep medicine and anesthesia: a new horizon for anesthesiologists. Chung F, Hillman D, Lydic R. *Anesthesiology*. 2011 Jun;114(6):1261-2.