



Outpatient • Office Based • Non-Operating Room

# SAMBA OFFICE BASED ANESTHESIA (OBA) VIRTUAL SYMPOSIUM

SATURDAY, MARCH 20, 2021

## SYLLABUS

Jointly Provided by the American Society of Anesthesiologists  
(ASA) and the Society for Ambulatory Anesthesia (SAMBA).



## PROGRAM INFORMATION

### Target Audience

This meeting is for anesthesiologists and other healthcare professionals interested in office-based anesthesia.

### About This Meeting

The purpose of this meeting is to provide an opportunity for discussions with office-based anesthesia professionals who can explain the steps they took to get where they are today and provide resources for attendees to make office based anesthesia a reality.

### Registration

Registration for the 2021 Office Based Anesthesia (OBA) Virtual Symposium includes access to all sessions and the program syllabus. Note that all fees are quoted in U.S. currency. Registration for the meeting is available to members and non-members via SAMBA's website at [www.sambahq.org](http://www.sambahq.org).

### Disclaimer

The information provided at this accredited activity is for continuing education purposes only and is

not meant to substitute for the independent medical judgment of a healthcare provider relative to diagnostic and treatment options of a specific patient's medical condition.

### Accreditation Statement

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the American Society of Anesthesiologists and the Society for Ambulatory Anesthesia. The American Society of Anesthesiologists is accredited by the ACCME to provide continuing medical education for physicians.

The American Society of Anesthesiologists designates this live activity for a maximum of 4.0 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

### Commercial Support

#### Acknowledgement

The CME activity is not supported by any educational grants.

### Special Needs

The Society for Ambulatory Anesthesia (SAMBA) fully complies with the legal requirements of the Americans with Disabilities Act and the rules and regulations thereof. If any attendee in this educational activity is in need of accommodations, please contact the SAMBA Executive Office at 414-488-3915.

### Cancellation Policy

Cancellations received through March 12, 2021, will receive a full refund. Cancellation of a meeting registration must be submitted in writing. Refunds will be determined by date written cancellation is received at the SAMBA office in Milwaukee, WI.

## OVERALL LEARNING OBJECTIVES

### At the conclusion of this activity, participants should be able to:

- Discuss the need for more OBA practitioners to meet patient needs.
- Provide steps on how to start up an OBA practice.
- Describe solutions to issues commonly faced in OBA practices with real-world cases.
- Cite the different mindset and competencies needed for practicing anesthesiologists and residents contemplating an OBA practice.
- Provide resources and contacts for questions about different types of OBA practices.



# PROGRAM SCHEDULE *(All Times Listed are in Eastern Time)*

## Saturday, March 20, 2021

*Moderators: Grace Lee Dorsch, MD & Fred E. Shapiro DO, FASA*

10:00am – 10:15am

**Panel: Opening Comments by Symposium Co-Chairs**

Leopoldo Rodriguez, MD, MBA, FAAP, FASA, SAMBA-F

10:15am – 10:45am

**Panel: OBA Safety Measures**

Richard Urman, MD, MBA, FASA; Stephen Smith, MD;  
Fred E. Shapiro DO, FASA

10:45am – 11:15am

**Panel: How to Start Up an OBA**

Hector Vila Jr., MD; Grace Lee Dorsch, MD

11:15am – 11:30am

**Break**

11:30am – 12:30pm

**Panel: Business Side of OBA**

Teresa Roberts, MD, FASA; Hector Vila Jr., MD

12:30pm – 2:00pm

**Panel: Real World Cases: PBLD Format**

Mary Ann Vann, MD, FASA; Marc A. Saxen, DDS, PhD; Zak  
Messieha, DDS FICD FACD Dipl. ADBA; Rosalind Ritchie, MD

2:00pm – 2:30pm

**Panel: Teaching the Next Generation**

Brian M. Osman, MD; John Bellamente, MD MS;  
Steven Young, MD

## PROGRAM PLANNING COMMITTEE

**Grace Lee Dorsch, MD**

**2021 Office Based Anesthesia (OBA)  
Virtual Symposium, Co-Chair &  
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Doctor  
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Co-Chair SAMBA OBA Committee  
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**Fred E. Shapiro DO, FASA**

**2021 Office Based Anesthesia (OBA)  
Virtual Symposium, Co-Chair &  
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Associate Professor of Anaesthesia,  
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### **Hector Vila Jr., MD**

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### **Steven Young, MD**

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# DISCLOSURE STATEMENT

The American Society of Anesthesiologists remains strongly committed to providing the best available evidence-based clinical information to participants of this educational activity and requires an open disclosure of any potential conflict of interest identified by our faculty members. It is not the intent of the American Society of Anesthesiologists to eliminate all situations of potential conflict of interest, but rather to enable those who are working with the American Society of Anesthesiologists to recognize situations that may be subject to question by others. All disclosed conflicts of interest are reviewed by the educational activity course director/ chair to ensure that such situations are properly evaluated and, if necessary, resolved. The American Society of Anesthesiologists educational standards pertaining to conflict of interest are intended to maintain the professional autonomy of the clinical experts inherent in promoting a balanced presentation of science. Through our review process, all American Society of Anesthesiologists accredited activities are ensured of independent, objective, scientifically balanced presentations of information. Disclosure of any or no relationships will be made available for all educational activities.

The following faculty, staff, and/or planning committee members have indicated that they have relevant financial relationships with ineligible companies to disclose:

Name	Type of Relationship	Company
Leopoldo V. Rodriguez, MD, MBA, FAAP, FASA, SAMBA-F	Consulting Fees	AcelRx Pharmaceutical
	Owner	Surgery Center of Aventura LLP
Richard Urman, MD	Funded Research	Merck
	Funded Research	Medtronic
	Consulting Fees	Medtronic
	Consulting Fees	Heron
	Funded Research	Acacia
	Consulting Fees	Novartis

All of the relevant financial relationships listed for these individuals have been mitigated.

All other planners, faculty, and staff have reported no relevant financial relationships with commercial interests to disclose.

## MARK YOUR CALENDAR AND BE SURE TO JOIN US AT FUTURE SAMBA MEETINGS!

**SAMBA 2021 - A Virtual Experience**  
**May 13-16, 2021 · #SAMBA2021**

# HANDOUT

## **OBA Safety Measures**

**Richard Urman, MD, MBA, FASA**  
**Panelist**

**03/20/2021**

**10:15 – 10:45am (Eastern)**



**SAMBA 2021 OBA Virtual Symposium**

**Office-Based Anesthesia: Principles of Patient Selection**

**Richard D. Urman, MD, MBA, FASA**  
Associate Chair for Dana-Farber Cancer Institute  
Department of Anesthesiology, Perioperative and Pain Medicine  
Brigham and Women's Hospital  
Harvard Medical School  
Boston, MA

Disclosures: NIH, AHRQ, NSF, APSE, FAER, Department of Defense, Mallinckrodt, Merck, AcetRx, Medtronic/Covidien, Acacia, Takeda

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HOSPITAL  
Center for Surgery and Pain Studies


HARVARD  
MEDICAL SCHOOL

1

**OBA Patient Selection**

**Patient Selection is also contingent on the following factors:**

1. Conditions of the facility
2. Procedure planned/complexity
3. Medical condition of the patient
4. Skill of the surgeon/proceduralist
5. Skill/experience of the anesthesiologist
6. Anesthetic technique required



Adapted from: Koch ME, Dayan S, Barinholtz D. Office-based anesthesia: an overview. Anesthesiol Clin North America. 2003 Jun;21(2):417-43.

2

**OBA Closed Claims: What We Do Know**

- Female (65%), middle-age (46 + 18 yrs.), and generally healthy (79% ASA 1-2).
- More likely to involve plastic surgery (45%) vs other outpatient claims (18%).
- Eye surgery was common (16% of OBA).
- Many cases involved respiratory or equipment AEs.
- Single most common adverse event leading to injury: inadequate ventilation or oxygenation (17% vs. 6% other outpatient, p=0.003).
- Cautery fires occurred in 9% of OBA claims (same as other outpatient). Outcomes did not differ between groups, with death in 27% and permanent disabling injury in 17% of OBA claims.
- Care was more commonly substandard in OBA claims (52%) vs. other outpatient claims (37%).
- OBA claims were more likely to result in payment (72%) than other outpatient (56%, p=0.014, Fig). Payments were similar between OBA (median \$135,800) and other outpatient claims (\$211,500).

Twersky R, Posner KL, Domino KB. Liability in Office-Based Anesthesia: Closed Claims Analysis. Anesthesiology. A2078, 2013.

Closed Claims Project  
www.closedclaimsproject.org

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**Patient Selection: What's Important?**

**Do we have any evidence for the OBS (vs. other ambulatory settings):**

- Patients at risk for DVT/PE?
- Social/psychological History?
- Cognitively Impaired
- Morbid obesity?
- OSA/ COPD?
- Renal or Liver Disease?
- CAD?
- HTN?
- Substance use/Chronic pain?
- DM?
- Airway issues?
- Multiple drug allergies/side effects?
- MH-susceptible?
- No adult escort

**Generally, lack of good quality evidence; Most comes from non-OBS settings**

**Very few studies in OBA attempt to link patient selection with outcomes**

**There is more emphasis on outcomes and less on choosing your patients wisely...**

Shapiro FE, ... Urman RD. Anesth Analg. 2014;119:276-89

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**Ways To Improve Safety and Patient Selection Process...  
Are we being complacent?**

1. **Communication** (effective communication between the anesthesia provider and surgeon)
2. **Set exclusion criteria** (this may vary based on the office type)
3. **Develop red flags**
4. All patients should fill out a **preliminary anesthesia questionnaire**, no exceptions
5. Questionnaires should be reviewed by the anesthesia provider
6. Telephone interviews
7. Use recommendations made by the different professional medical societies
8. Education and **Benchmarking**

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**References:**

- Koch ME, Dayan S, Barinholtz D. Office-based anesthesia: an overview. Anesthesiol Clin North America. 2003 Jun;21(2):417-43.
- Twersky R, Posner KL, Domino KB. Liability in Office-Based Anesthesia: Closed Claims Analysis. Anesthesiology. A2078, 2013.
- Whippley A, et al. Predictors of unanticipated admission following ambulatory surgery. Can J Anaesth 2013;60:675-83.
- Seligson C, Beutler SS, Urman RD. Office-based anesthesia: an update on safety and outcomes (2017-2019). Curr Opin Anaesthesiol. 2019 Dec;32(6):756-761. doi: 10.1097/ACO.0000000000000789. PMID: 31483329.
- Shapiro FE, Punwani N, Rosenberg NM, Valedon A, Twersky R, Urman RD. Office-based anesthesia: safety and outcomes. Anesth Analg. 2014 Aug;119(2):276-85. doi: 10.1213/ANE.0000000000000313. PMID: 25046785.
- Urman RD, Punwani N, Shapiro FE. Patient safety and office-based anesthesia. Curr Opin Anaesthesiol. 2012 Dec;25(6):648-53. doi: 10.1097/ACO.0b013e3182835904. PMID: 23026805.
- Sawen MA, Urman RD, Yepes JF, Gabriel RA, Jones JE. Comparison of Anesthesia for Dental/Oral Surgery by Office-based Dentist Anesthesiologists versus Operating Room-based Physical Anesthesiologists. Anesth Prog. 2017 Winter;64(4):212-220. doi: 10.2344/angp-65-01-04. PMID: 29200371; PMCID: PMC5715304.
- Gaulton TG, Shapiro FE, Urman RD. Administrative issues to ensure safe anesthesia care in the office-based setting. Curr Opin Anaesthesiol. 2013 Dec;26(6):692-7. doi: 10.1097/ACO.0b013e3182835904. PMID: 24113266.
- Shapiro FE, Jani SR, Liu X, Dutton RP, Urman RD. Initial results from the National Anesthesia Clinical Outcomes Registry and overview of office-based anesthesia. Anesthesiol Clin. 2014 Jun;32(2):431-44. doi: 10.1016/j.ancin.2014.02.018. PMID: 24882129.
- Soltani AM, Keyes GR, Singer R, Reed L, Fodor PB. Outpatient surgery and sequelae: an analysis of the AAAASF Internet-based quality assurance and peer review database. Clin Plast Surg. 2013 Jul;40(3):465-73. doi: 10.1016/j.cps.2013.04.010. PMID: 23830755.

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# HANDOUT

## **OBA Safety Measures**

**Stephen Smith, MD**  
**Panelist**

**03/20/2021**  
**10:15 – 10:45am (Eastern)**



## OBA SAFETY MEASURES

FORMULATION and APPLICATION  
of  
PROTOTYPICAL SAFETY MEASURES  
to  
ADDRESS NOVEL PATIENT SAFETY  
THREATS

MARCH 20, 2021  
Stephen R. Smith MD

1

## INITIAL MEASURES MUST SEEK ABSOLUTE SAFETY FOR PATIENTS AND STAFF

- Avoid Known Risks Entirely
  - Elective Cases
  - Non-Elective Cases
- Anticipate Potential Risks
  - Mechanism of Pathology
  - Mechanism of Risk Transmission
- Mitigate Unavoidable Risks
  - Minimize Exposure
  - Maximize Protective Measures

2

## NEW MEASURES MUST EVOLVE TO REMAIN EFFECTIVE

- Process Evolution
  - Modifications required for effective implementation
- Outcome Evolution
  - Modifications required to achieve desired effect
- Knowledge Evolution
  - New information drives modifications
- Technology Evolution
  - New technology drives modifications
    - Equipment
    - Pharmaceuticals
    - Laboratory

3

## NEW MEASURES SHOULD NOT COMPROMISE EXISTING SAFETY MEASURES

- Fundamental Principles Remain
  - Principles of Physiologic Support
  - Principles of Pharmacology
- Novel Threats Seldom Are
  - Known Mechanisms of Pathologic Effect
    - Infectious Agent
    - Toxin
    - Physical Trauma
    - Physics
  - Unknown Mechanisms of Pathologic Effect
    - Not yet categorized as known mechanism
    - Truly Novel Mechanism

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## REFERENCES

- <https://www.asahq.org/about-asahq/newsroom/news-releases/2020/03/asahq-scem-joint-statement-to-collaboratively-address-the-covid-19-pandemic>
- <https://www.asahq.org/about-asahq/newsroom/news-releases/2020/03/joint-statement-on-multiple-patients-per-ventilator>
- <https://www.asahq.org/about-asahq/newsroom/news-releases/2020/04/joint-statement-on-elective-surgery-after-covid-19-pandemic>
- <https://sambahq.org/wp-content/uploads/2020/04/SAMBA-Statement-on-Resuming-Ambulatory-Anesthesia-Care-as-the-Nation-ReCOVERS-From-COVID-19-4-18-2020.pdf>
- <https://www.asahq.org/about-asahq/governance-and-committees/asahq-committees/committee-on-occupational-health/coronavirus>

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# HANDOUT

## **OBA Safety Measures**

**Fred E. Shapiro, DO, FASA**  
**Panelist**

**03/20/2021**

**10:15 – 10:45am (Eastern)**

## Safety in Office-Based Anesthesia: Research and Outcomes 2021

**Fred E. Shapiro DO, FASA**  
Associate Professor of Anaesthesia  
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Department of Anesthesia, Critical Care,  
and Pain Medicine  
Boston, MA

Beth Israel Lahey Health

Beth Israel Deaconess Medical Center | HARVARD MEDICAL SCHOOL TEACHING HOSPITAL

1

## Overview 2021

Growth of ambulatory anesthesia in both ASC and OBS over past two decades  
Most safety outcome data is limited  
Little data on safety of ASC or OBS individually  
No true benchmarks

No disclosures or conflicts of interest

Beth Israel Lahey Health

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## Office-Based Anesthesia: Safety and Outcomes

Fred E. Shapiro, DO,\* Nathan Punwani, MD,† Noah M. Rosenberg, MD,‡ Arnaldo Valedon, MD,§ Rebecca Twersky, MD, MPH,|| and Richard D. Urman, MD, MBA¶ (Anesth Analg 2014;119:276-85)

Lack of randomized controlled trials  
Enhanced quality of care :

- proper procedure and patient selection
- provider credentialing
- facility accreditation
- patient safety checklists (cognitive aids)
- professional society guidelines

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## journal

**Ambulatory Surgical Risk**  
**A Comparison between office and other ambulatory practices: Analysis from the National Anesthesia Clinical Outcomes Registry**

23 million Anesthesia cases, 2010 - 2014  
180,000 office vs 4.6 million ASC  
Statistically significant differences in patient demographics, procedure types, and reported events

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## Research in 2021

Advent of EHR allows better analysis  
New research provides quantitative insights  
Software designed for Anesthesia care

Beth Israel Lahey Health

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## 2016-19 OBA Research

Retrospective data ~90,000 patients in growing anesthesia practice from 2016-2019  
Data extracted from administrative claims and electronic medical records  
Segregated into ASC and OBS

Beth Israel Lahey Health

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### ASC and OBS 2019 (Annualized)

Volume	ASC	OBS	Total	% OBS
Number of Procedures	31,428	8,954	40,382	22.2%
Complication Rate	0.0727%	0.1268%	0.0847%	

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### Demographics ASC vs OBS

	ASC	OBS
Average Age	52.6	58.5
Average ASA Status	2.10	2.24
Average Number of Procedures per MD per Year	661	167
Average Number of Procedures per Office per Year	4,490	176

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### Most Common Procedures ASC vs OBS 2019

ASC		OBS	
Procedure Name	% of 2019 annualized Total	Procedure Name	% of 2019 annualized Total
Cataract removal	38.9%	Colonoscopy	17.3%
Epidural Steroid Injection (lumbar)	20.1%	Prostate Biopsy	15.5%
Arthroscopy (shoulder)	13.8%	Angiogram (upper extremity)	13.4%
Arthroscopy (knee)	11.4%	Cystoscopy	8.8%
Microdiscectomy (lumbar)	5.2%	Uterine Fibroid Embolization	7.8%

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### Future Direction

*Suggestion:* Field would benefit if everyone undertakes research and publishes  
Develop best practices, safety protocols and benchmarks

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### References

Shapiro FE, Punwani N, Rosenberg NM, et al. Office-based anesthesia: safety and outcomes. *Anesth Analg.* 2014;119:276–85.

Jani S, Shapiro FE, Kordylewski H, et al. A comparison between office and other ambulatory practices: analysis from the National Anesthesia Clinical Outcomes Registry. *J Healthc Risk Manag* 2016;35(4):38–47.

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# HANDOUT

## **How to Start Up an OBA**

**Hector Vila Jr., MD**

**Panelist**

**03/20/2021**

**10:45 – 11:15am (Eastern)**

# HANDOUT

## How to Start Up an OBA

**Grace Lee Dorsch, MD**

**Panelist**

**03/20/2021**

**10:45 – 11:15am (Eastern)**



# HOW TO START UP AN OBA PRACTICE

*Grace "Lee" Dorsch, MD  
Hector Vila, Jr, MD*

*gldorsch@me.com  
drvila@pediatricsedation.com*

1

## BUSINESS DETAILS

- Company Name
- Set-up LLC (lawyer, accountant reviewed)
- State Business License
- Malpractice policy
- Paper records (pre-anesthesia evaluation and anesthesia record) or EMR

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2

## TYPE OF PRACTICE

- Think of types of cases you enjoy or want to do
- Think about types of offices where you want to work ...this may help determine whether you are fee for service or accept insurance
- Fee for service- pro/cons
- Accept Insurance- pro/con

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## EQUIPMENT

- Anesthesia machine- OBA-1 from Cardinal Medical Specialties in KY. Website: <http://www.cdmed.com>
- Monitors- same as OR (Mindray, Cardio-CAP, your choice)
- Oxygen connectors (offices have different connection types)
- Airway devices- laryngoscopes, LMA's, Nasal CPAP)
- Medications- all non controlled substances
- Disposables- IV, tapes, labels
- SCD (sequential compression device)
- Suppliers: McKesson/Southern Anesthesia

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## SPACE

- Much smaller area especially dental offices
- Medical gases- not always piped for oxygen. Not all have nitrous. Many will only have portable e-cylinders.
- Scavenging if using inhalation gases. Not usually waste line. May use absorber canister which connect to anesthesia machine.

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## MARKETING

- Business cards
- Set up meeting with offices
- How to "sell" it? Why office better for surgeon or dentist- increased productivity, time efficient, less hassle for patients
- More to be covered in business side of OBA practice session

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### RESOURCES ON ASA'S WEBSITE

- [Guidelines for Office-Based Anesthesia](#)
- [Statement on Qualifications of Anesthesia Providers in the Office-Based Setting](#)
- [Statement on Sedation & Anesthesia Administration in Dental Office-Based Settings](#)
- [Practice Guidelines for Moderate Procedural Sedation and Anesthesia 2018: A Report by the American Society of Anesthesiologists, Joint Force on Moderate Procedural Sedation and Anesthesia, the American Association of Oral and Maxillofacial Surgeons, American College of Dentists, American Dental Association, American Society of Dentist Anesthesiologists, and Society of Interventional Radiology](#)

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# HANDOUT

## **Business Side of OBA**

**Teresa Roberts, MD, FASA  
Panelist**

**03/20/2021**

**11:30am – 12:30pm (Eastern)**



# HANDOUT

## **Business Side of OBA**

**Hector Vila Jr., MD**

**Panelist**

**03/20/2021**

**11:30am – 12:30pm (Eastern)**

## Business Side of Office Based Anesthesia

Teresa L Roberts, MD, FASA  
Hector Vila, MD

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## Starting your own OBA Practice

- ▶ Creating your company (Discussed in Dr. Dorsch's session)
  - ▶ Company Name
  - ▶ Set-up PLLC or LLC - state specific
  - ▶ State and County business license
  - ▶ Malpractice
- ▶ Equipment
  - ▶ Scope of practice will determine equipment - open airway TIVA vs. LMA/intubation cases
  - ▶ Monitor, Anesthesia Machine, medical gases, medications, disposables, etc.

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## Starting your own OBA practice

- ▶ Billing/Compensation
  - ▶ Fee for services vs. Insurance
  - ▶ Direct Bill to patient vs Bill Facility
- ▶ Legal Contracts
  - ▶ Group vs. Independent Contractor agreements with offices
    - ▶ Pros
    - ▶ Cons

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## Growing your Business

- ▶ Marketing
  - ▶ Organic growth, speak at study clubs, attend local meetings
- ▶ Expanding practice
  - ▶ Individual vs. Group of anesthesia providers - pros/cons
- ▶ Support Staff
  - ▶ Office Manager, Clinical Manager, Nurse/tech for office set up

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## Contact Us

- ▶ Teresa L Roberts, MD, FASA
  - ▶ [dr.roberts@oakhillanesthesia.com](mailto:dr.roberts@oakhillanesthesia.com)
- ▶ Hector Vila, MD
  - ▶ [DrVila@pediatricsodation.com](mailto:DrVila@pediatricsodation.com)

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# HANDOUT

## **Real World Cases: PBLD Format**

**Mary Ann Vann, MD, FASA  
Panelist**

**03/20/2021  
12:30 – 2:00pm (Eastern)**



## A Challenging Ophthalmologic Case

Mary Ann Vann MD FASA  
Asst. Professor, Harvard Medical School

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## Patient Summary

93 year old Female Scheduled for Bilateral Cataract Surgery

- ▶ Severe Dementia – lives in facility
- ▶ Other medical conditions: h/o CVA 2016, Hyperlipidemia, Type 2 DM – metformin recently stopped, Arthritis, GERD, Hip fracture 2020
- ▶ Not “Cleared” by Primary Care PA

2

## Questions: Preoperative

- ▶ Is this patient eligible for ambulatory surgery?
- ▶ Should this patient be done at your office based center?
  - Why? Why Not?
- ▶ Anything else you need to know before proceeding?

3

## Questions: Anesthesia Plan

- ▶ MAC vs. GA – Does it matter?
- ▶ GA – How would you do it?
- ▶ Eye block – Needed or not?

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## References

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- ▶ Preoperative Medical Testing and Falls in Medicare Beneficiaries Awaiting Cataract Surgery. Chen CL, McLeod SD, et al. Ophthalmology 2021 Feb;128(2).
- ▶ Preoperative Evaluation for Ambulatory Anesthesia What, When, and How? Okocha O, Gerlach RM, Sweitzer B. Anesthesiol Clin. 2019 Jun;37(2).
- ▶ Intravenous versus inhalational maintenance of anaesthesia for postoperative cognitive outcomes in elderly people undergoing non-cardiac surgery. Miller D, Lewis SR, et al. Cochrane Database Syst Rev 2018 Aug 21;8(8).

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# HANDOUT

## **Real World Cases: PBLD Format**

**Marc A. Saxen, DDS, PhD  
Panelist**

**03/20/2021  
12:30 – 2:00pm (Eastern)**

Mark Saxen

Presentation: Office-Based Anesthesia for Dental Rehabilitation using TIVA

Summary for syllabus.

Complete Dental Rehabilitation is a term used to describe the comprehensive restoration of damaged dentition in children with early childhood caries, a condition estimated to affect approximately 2% to 3% of preschool-aged children in the United States.<sup>1</sup> Treatment of this condition under general anesthesia is quite common in both the hospital and office-based settings.<sup>2</sup> This presented describes a total intravenous technique (TIVA) for providing intubated general anesthesia in either environment.

The dental office environment often presents several challenges to the anesthesia provider. Most dental operatories are extremely small compared to ASC and hospital operating rooms. A typical 10ft by 11ft dental operator is one-fourth the size of a typical hospital operating room and has 33% less square footage than the minimum standard space designed for endoscopy. Medical gas plumbing and waste gas evacuation is highly variable across offices.<sup>3</sup> Dental rehabilitation is usually a mix of light and heavy surgical stimulation, often at unpredictable times. The use of local anesthesia under general anesthesia is not universally practiced by pediatric dentists. In the midst of these factors, the anesthesia provider is expected to provide rapid induction, excellent analgesia in an immobile, unconscious patient, and rapid recovery with minimal postoperative pain and PONV.

In our experience, the TIVA technique outlined in this presentation consistently meets those expectations. Initial separation of the parent and child is achieved with an intramuscular injection of ketamine and midazolam. Nasal intubation is facilitated by bolus administration of propofol and remifentanyl (in divided doses). Intraoral local anesthetic administration is performed immediately after the airway is secured, and often returns the patient to spontaneous ventilation within 3-5 minutes of induction. Maintenance is achieved by administering separate infusions of remifentanyl and propofol. Adjuvant drugs are added for PONV prophylaxis, control of oral secretions and postop analgesia, as needed. The chief advantage of this technique is the ability to separate and control analgesia and anesthesia in a balanced anesthetic approach which enables the anesthesia provider to rapidly adjust to changing levels of surgical stimulation while maintaining a light general anesthesia with a protected airway.<sup>4</sup> Compared to inhalational anesthesia, this approach is associated with less PONV.<sup>5,6</sup>

<sup>1</sup>Anil S, Anand PS. Early Childhood Caries: Prevalence, Risk Factors, and Prevention. *Front Pediatr.* 2017;5:157. Published 2017 Jul 18. doi:10.3389/fped.2017.00157

<sup>2</sup> Saxen MA, Urman RD, Yepes JF, Gabriel RA, Jones JE. Comparison of Anesthesia for Dental/Oral Surgery by Office-based Dentist Anesthesiologists versus Operating Room-based Physician Anesthesiologists. *Anesthesia Progress.* 2017 ;64(4):212-220. DOI: 10.2344/anpr-65-01-04.

<sup>3</sup> Saxen MA, Tom JT and Mason KP Advancing the Safe Delivery of Office-Based Dental Anesthesia and Sedation in: *Ambulatory Anesthesia* Walsh MT Ed., *Anesthesiology* CI 37(2019) 333-348.

<sup>4</sup> Scott, H.B., Choi, S.W., Wong, G.T.C. and Irwin, M.G. (2017), The effect of remifentanyl on propofol requirements to achieve loss of response to command vs. loss of response to pain. *Anaesthesia*, 72: 479-487. <https://doi-org.proxy.ulib.uits.iu.edu/10.1111/anae.13781>

<sup>5</sup> Lerman J, Jöhr M. Inhalational anesthesia vs total intravenous anesthesia (TIVA) for pediatric anesthesia. *Paediatr Anaesth.* 2009 May;19(5):521-34. doi: 10.1111/j.1460-9592.2009.02962.x. PMID: 19453585.

<sup>6</sup> König MW, Varughese AM, Brennen KA, Barclay S, Shackelford TM, Samuels PJ, Gorman K, Ellis J, Wang Y, Nick TG. Quality of recovery from two types of general anesthesia for ambulatory dental surgery in children: a double-blind, randomized trial. *Paediatr Anaesth.* 2009 Aug;19(8):748-55. doi: 10.1111/j.1460-9592.2009.03054.x. Epub 2009 Jun 15. PMID: 19538532.

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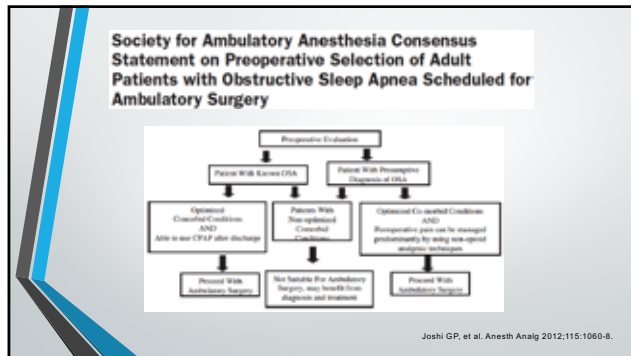
## **Real World Cases: PBLD Format**

**Rosalind Ritchie, MD  
Panelist**

**03/20/2021  
12:30 – 2:00pm (Eastern)**







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**References**

Gupta R, Pytel S. Controversies in office-based anesthesia: obstructive sleep apnea considerations. *Minerva Anestesiol*. 2018 Sep;84(9):1102-1107.

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Seligson, Erica\*, Butler, Sascha S\*, Uzman, Richard D.\*\*\* Office-based anesthesia: an update on safety and outcomes (2017-2019). *Current Opinion in Anaesthesiology*. December 2019; Volume 32, Issue 6: p 756-761.

Spira AL, Saven MA, Yopes JF, Jones JE, Sanders BJ. Office-Based Anesthesia: Safety and Outcomes in Pediatric Dental Patients. *Anesth Prog*. 2017 Fall;64(3):144-152. doi: 10.2344/ange-64-04-05. PMID: 28858554. PMCID: PMC5579815.

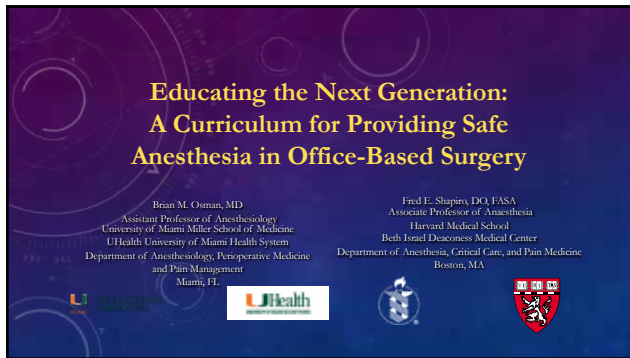
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# HANDOUT

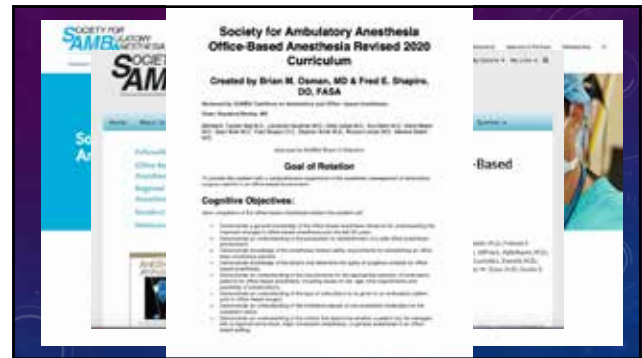
## Teaching the Next Generation

**Brian M. Osman, MD**  
**Panelist**

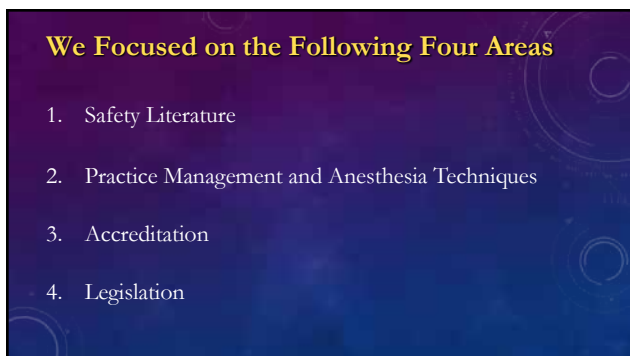
**03/20/2021**  
**2:00 – 2:30pm (Eastern)**



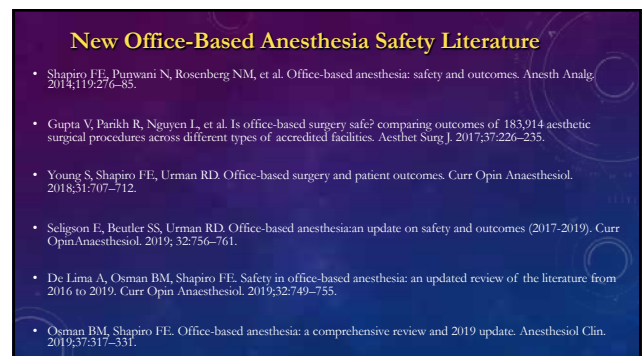
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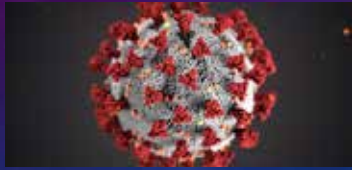


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6

## HOW DO WE EDUCATE THE NEXT GENERATION?



- COVID-19, Technology shifts (Simulation)
- OBS and COVID (Dr. Stephen Young) & Simulation (Dr. Johnny Bellamente)

7

## References

1. Sagarin E, Boute SS, Urman RD. Office-based anesthesiologist update on safety and outcomes (2017-2019). *Curr Opin Anaesthesiol*. 2019;32:756-761.
2. About us: our mission, our vision, our goal. The Society for Ambulatory Anesthesia (SAMBA). 2020. Available at: <https://www.samba.org/about-us/>. Accessed Mar 1, 2021.
3. Ahmad S, Shapiro FE. Society for Ambulatory Anesthesia Office-Based Curriculum. The Society for Ambulatory Anesthesia (SAMBA). 2010. Available at: <https://www.samba.org/curriculum/>. Accessed Mar 1, 2021.
4. Osman BM, Shapiro FE. Society for Ambulatory Anesthesia Office-Based Anesthesia Revised 2020 Curriculum. The Society for Ambulatory Anesthesia (SAMBA). 2020. Available at: <https://www.samba.org/curriculum/>. Accessed Mar 1, 2021.
5. Shapiro FE, Parnara N, Rosenberg NM, et al. Office-based anesthesia safety and outcomes. *Anesth Analg*. 2014;119:276-85.
6. Young S, Shapiro FE, Urman RD. Office-based surgery and patient outcomes. *Curr Opin Anaesthesiol*. 2018;31:707-712.
7. Gupta V, Parikh R, Nguyen I, et al. Is office-based surgery safe? comparing outcomes of 183,914 aesthetic surgical procedures across different types of accredited facilities. *Aesthet Surg J*. 2017;37:226-235.
8. De Leon A, Osman BM, Shapiro FE. Safety in office-based anesthesia: an updated review of the literature from 2016 to 2019. *Curr Opin Anaesthesiol*. 2019;32:749-755.
9. Osman BM, Shapiro FE. Office-based anesthesia: a comprehensive review and 2019 update. *Anesthesiol Clin*. 2019;37:317-331.
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12. Rosenberg NM, Urman RD, Gallagher S, et al. Effect of an office-based surgical safety system on patient outcomes. *Eplasty*. 2012;12:e59.
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16. Office-Based Surgery Laws. The Policy Surveillance Program: A LawAtlas Project. 2016. Available at: <http://lawatlas.org/datasets/office-based-surgery-laws>. Accessed Mar 1, 2021.
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# HANDOUT

## Teaching the Next Generation

**Steven Young, MD**  
**Panelist**

**03/20/2021**  
**2:00 – 2:30pm (Eastern)**



## Office-Based Anesthesia: Gaps in knowledge

Steven Young, MD  
CA3/PGY4 Anesthesia Resident  
Beth Israel Deaconess Medical Center  
Mar 20, 2021

1

## Objectives

- Recognize the increased variety of office-based procedures
- Understand clinical practice differences in the office-based setting
- Define office-based anesthesia policies & administrative issues

2

## Clinical Gaps

- Outpatient vs inpatient
- Appropriate Patient selection
- Types of Procedures
- Drugs (how to obtain, storage of controlled substances)
- Physician board certification
- COVID considerations

3

## Facility Gaps

- Facility accreditation
- Non-OR based anesthetizing location
- Staff scheduling
- Gas scavenging
- Equipment logistics, storage, cleaning
- ACLS resuscitative equipment

4

## Administrative Gaps

- Documentation
- Patient PACU recovery
- Payment structure
- Transfer of patients in emergency
- Quality monitoring

5

## References

- SAMBA Office-Based Anesthesia Curriculum  
[https://samba.memberclicks.net/assets/2019%20Curriculum%20Update\\_Corrected3.pdf](https://samba.memberclicks.net/assets/2019%20Curriculum%20Update_Corrected3.pdf)
- ASA Guidelines for Office-based Anesthesia. Date accessed 2/14/2021  
<https://www.asahq.org/standards-and-guidelines/guidelines-for-office-based-anesthesia>
- Ambulatory Anesthesia. Chung M, Vazques R. Miller's Anesthesia Ninth Edition.
- Non-Operating Room Anesthesia. Chung M, Vazques R. Miller's Anesthesia Ninth Edition.

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# HANDOUT

## **Real World Cases: PBLD Format**

**Zak Messieha, DDS FICD FACD Dipl. ADBA  
Panelist**

**03/20/2021**

**12:30 – 2:00pm (Eastern)**

## INHALATION TECHNIQUES IN OBA

SAMBA OBA SYMPOSIUM MARCH 20TH, 2021  
ZAK MESSIEHA, DDS FICD FACD DIPL ADRA  
DENTIST-ANESTHESIOLOGIST, PRIVATE PRACTICE  
RETIRED, CLINICAL PROFESSOR

## OBJECTIVES

- TO DISCUSS THE ADVANTAGES OF INHALATION ANESTHESIA IN OBA
- TO LIST THE CHALLENGES THAT UTILIZING SUCH TECHNIQUES CAN PRESENT
- TO PROPOSE SOLUTIONS TO SUCH CHALLENGES AND HOW TO IMPROVE THE OUTCOMES OF PATIENT CARE UTILIZING SUCH TECHNIQUES

## ADVANTAGES

- FACILITATES INDUCTION OF GENERAL ANESTHESIA IN SMALLER CHILDREN AND INDIVIDUALS WITH NEEDLE PHOBIA
- FAVORABLE CLINICAL EFFECT INCLUDING PROFOUND CORTICAL AND BRAIN STEM EFFECTS AIDING IN DEEPER AND LESS STIMULATING ANESTHETIC AND CAN FREQUENTLY LEAD TO OPIOID-FREE PROTOCOLS AND BETTER MAINTENANCE OF LONGER ANESTHETICS
- BRONCHODILATION EFFECT IN INDIVIDUALS WITH RAD
- SHORT DURATION OF RECOVERY ESPECIALLY FOR SEVOFLURANE AND DESFLURANE

## CHALLENGES

- RISK FOR MALIGNANT HYPERTHERMIA (DANTROLENE IS A MUST)
- NEED FOR EFFECTIVE SCAVENGING SYSTEM
- HIGH INCIDENT OF DELIRIUM AND AGITATION ESPECIALLY IN YOUNGER CHILDREN
- PORTABLE ANESTHESIA MACHINE OR DELIVERY SYSTEM IS NEEDED
- COST OF SEVOFLURANE IS RELATIVELY HIGH

## HOW TO IMPROVE OUTCOMES

- MAINTENANCE OF LONGER CASES WITH A VOLATILE ANESTHETIC THE SWITCHING TO PROPOFOL TIVA IN THE FINAL 30 TO 45 MINUTES OF THE PROCEDURE
- THE ABOVE TECHNIQUE ALLOWS FOR SIGNIFICANT REDUCTION IN DELIRIUM AND AGITATION IN CHILDREN
- IMPLEMENT MH PROTOCOL UTILIZING THE GUIDELINES AND TOOLS PROVIDED BY THE MALIGNANT HYPERTHERMIA SOCIETY OF NORTH AMERICA
- FAMILIARIZE YOURSELF WITH THE EXISTING SCAVENGING SYSTEMS AND, IF NECESSARY, UTILIZE PORTABLE SCAVENGERS

## REFERENCES

- PREVENTION OF SEVOFLURANE DELIRIUM WITH PROPOFOL. MESSIEHA ZS ANESTH PROG 60:67-71 2013
- AN OVERVIEW OF ANESTHETIC PROCEDURES, TOOLS AND TECHNIQUES IN AMBULATORY ANESTHESIA. MESSIEHA ZS AMBULATORY ANESTHESIA 2:21-28 2015

# HANDOUT

## Teaching the Next Generation

**John Bellamente, MD MS**  
**Panelist**

**Educating the Next Generation of Learners:  
Simulation Programs for Office Based  
Anesthesia**

John Bellamente, MD MS  
PGY-4  
March 20, 2021

Beth Israel Lahey Health


Beth Israel Deaconess  
Medical Center

HARVARD MEDICAL SCHOOL  
TEACHING HOSPITAL

1

**Learning Objectives**

- Highlight the unique patient safety challenges that exist in the office-based anesthesia setting
- Understand the education needs of the next generation of learners
- Recognize the importance of simulation-based education
- Identify evidence supporting the use of simulation
- Define an office-based simulation curriculum



Beth Israel Lahey Health

2

**Educating the Next Generation**

- Changes in Office-Based Practice
  - Expansion
  - Patient population
  - Systems adaptations as a result of COVID-19
- SAMBA OBA Curriculum<sup>1</sup>
  - Cognitive aids
  - Practice management protocols
  - Safety checklists
- Technology-based Learning and Simulation
  - Proportion of virtual learning has rapidly increased
  - Immersion in real-world clinical scenarios in a safe environment

1. Osman BM, Shapiro FE. Society for Ambulatory Anesthesia Office-Based Anesthesia Revised 2020 Curriculum.

Beth Israel Lahey Health

3

**Simulation Education**

- Simulation education and patient safety<sup>2</sup>
  - Emergency drills required for accreditation
  - Effective in gauging readiness
  - Improves self-confidence, knowledge, and individual and team performance
  - Procedural simulation, deliberate practice, and debriefing can improve operational performance in clinical settings
- A feasibility study employing an in-situ simulation program<sup>3</sup>
  - Allowed assessment of OBA safety and regulatory issues
  - Resulted in greater awareness of patient safety issues

2. Griswold S, Ponuru S, Nishisaki A, et al. The emerging role of simulation education to achieve patient safety: translating deliberate practice and debriefing to save lives. Pediatr Clin North Am. 2020;65(1):123-40.  
3. Shapiro FE, Panchal JS, Rosenblatt ML, et al. The Use of In-Situ Simulation to Improve Safety in the Plastic Surgery Office: A Feasibility Study. ePlasty 2014;9.

Beth Israel Lahey Health

4

**OBA Simulation Curriculum**

- In-situ simulation
- Characteristics
  - Customizable and scalable
  - Focused on safety
  - Debriefing and feedback
- Goals
  - Improving safety education of office-based personnel
  - Educating trainees on evidence-based techniques to improve patient safety
  - Sustain quality and safety of office-based practice

Beth Israel Lahey Health

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**References**

- Osman BM, Shapiro FE. Educating the Next Generation: A Curriculum for Providing Safe Anesthesia in Office-Based Surgery. ASPF Newsletter, June 2020, 53-56.
- Griswold S, Ponuru S, Nishisaki A, et al. The emerging role of simulation education to achieve patient safety: translating deliberate practice and debriefing to save lives. Pediatr Clin North Am. 2020;65(1):123-40.
- Shapiro FE, et al. The Use of In-Situ Simulation to Improve Safety in the Plastic Surgery Office: A Feasibility Study. ePlasty 2014;9.
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- Shapiro FE, Young S, Urman RD, Osman BM. Teaching the Next Generation about Safe Practices in Office-Based Anesthesia and Surgery. Session: 289, Panel.
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Beth Israel Lahey Health

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