

# 25<sup>th</sup> Global Dentists and Pediatric Dentistry Annual Meeting

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### **Office based anesthesia: Safety and outcomes in pediatric dental patients**

The number of children with caries requiring general anesthesia to achieve comprehensive dental care and the demand for dentist anesthesiologists to provide ambulatory anesthesia for these patients is increasing. In 2010, the Society for Ambulatory Anesthesia Clinical Outcomes Registry was developed. This Web-based database allows providers of ambulatory anesthesia to track patient demographics and various outcomes of procedures. This presentation reviews a secondary analysis of data collected in the registry over a 4-year period, 2010–2014. Of the 7041 cases reviewed, no cases resulted in serious complications, including death, anaphylaxis, aspiration, cardiovascular adverse events, or neurologic adverse events. Of the 7041 cases reviewed, 196 (3.0%) resulted in a predischarge or postdischarge adverse event. The predischarge adverse event occurring with the highest frequency was laryngospasm, occurring in 35 cases (0.50%). The postdischarge adverse event occurring with the highest frequency was nausea, reported by 99 patients (5.0%) for the 1991 patients reached for follow-up by the dentist anesthesiologist following their procedure. This analysis provides strong clinical outcomes data to support the safety of office-based anesthesia as performed by dentist anesthesiologists in the treatment of pediatric dental patients. Example of a typical patient procedure will be presented for discussion.

### **Recent Publications**

1. Davis L B, Saxen M A, Jones J E, Mc Glothlin James D, Yepes J F and Sanders B J (2018) Effects of different levels of ambient oxygen in an oxygen-enriched surgical environment and production of surgical fires. *Anesthesia Progress* 65(1):3-8.
2. Saxen M A, Urman R D, Gabriel R A, Yepes J F and Jones J E (2017) Comparison of anesthesia for dental/oral surgery by office-based dentist anesthesiologists versus operating room-based physician anesthesiologists. *Anesthesia Progress* 64(4):212-220.
3. Spera A, Saxen M, Yepes J, Jones J and Sanders B (2017) Office-based anesthesia: safety and outcomes in pediatric dental patients. *Anesthesia Progress* 64(3):144-152.
4. Olabi N, Jones J E, Saxen M and Sanders B J (2012) The use of office based sedation by board certified pediatric dentists practicing in the United States. *Anesthesia Progress* 59(1):12-17.

### **Biography**

James E Jones is the Starkey Research Professor, Department of Pediatric Dentistry, Indiana University School of Dentistry and Clinical Professor of Pediatrics, Indiana University School of Medicine. He is a Life Fellow at the American Academy of Pediatric Dentistry, Fellow of the American College of Dentists, Fellow of the International College of Dentists and a Member of the Pierre Fauchard Academy. He has published over 100 articles and book chapters in the dental, medical and education literature. He has presented over 150 continuing education courses in the United States, the Caribbean, Europe, Asia, South America and the Middle East on a variety of topics related to higher education.

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