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DENTAL MEETING 2018

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 pre-discharge or post-discharge adverse event. The pre-discharge adverse event occurring with the highest frequency was laryngospasm, occurring in 35 cases (0.50%). The post-discharge 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. Martinez-Mier A E, Spencer K L, Sanders B J, Jones J E, et al. (2017) Fluoride in the diet of two-year-old children. *Community Dentistry and Oral Epidemiology*; 45(3): 251-257.
2. 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.

Biography

James E Jones is presently the Starkey Research Professor, Department of Pediatric Dentistry, Indiana University, School of Dentistry and Clinical Professor of Pediatrics, Indiana University School of Medicine. From 1993 to 2005, he was Dean of the School of Health Sciences, Indiana University Purdue University, in Fort Wayne, Indiana. He is a Fellow of 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, book chapters and research abstracts in the dental, medical and education literature.

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