



BRIAN SIMPSON, D.M.D. DIPLOMATE OF THE AMERICAN BOARD OF ORAL & MAXILLOFACIAL SURGERY
 113 NORTH MIDDLETOWN ROAD NANUET, NY 10954 (845) 623-3497 FAX (845) 623-4039 www.drbrsiansimpson.com

Risks of Prilocaine and Articaine

Studies have suggested that the incidence of paresthesia may depend on the type of local anesthetic used. Several studies have been conducted on the risks involved when using 4% prilocaine and articaine for nerve blocks, especially inferior alveolar anesthesia. Neurosensory disturbances (NSDs) commonly occur as a result of three events. These events include (1) mechanical injury caused specifically by the needle, (2) mechanical injury that resulted in intraneural bleeding, hematoma, granulation tissue with

constrictive scarring, hypoxia, or both, and (3) neurotoxicity of the local anesthetic administered. Researchers conclude that it is the neurotoxicity of prilocaine and articaine, not the mechanical injury from the needle penetration that is responsible for a large number of neurosensory disturbances. One statistic shows that articaine was responsible for five times the occurrence of NSDs when compared to other local anesthetics.

Another study looked specifically at the type of local anesthetic administered and its relationship

to paresthesia. Cases that were voluntarily reported to the U.S. Food and Drug Administration (FDA) through the FDA's Adverse Event Reporting System were analyzed in this study. Cases that involved surgical procedures such as implant placement or extractions were not included in the study be-

cause these procedures have the capability to cause nerve damage unrelated to the type of anesthesia used. In these reports, 51% of the eligible NSD cases involved 4% articaine and 42% involved 4% prilocaine compared to the 5% of the cases that involved lidocaine. Clinical trials

continued on reverse

Dental Fun Fact

Royal smile— *There is someone whose job includes squeezing Prince Charles' toothpaste onto the royal toothbrush. That someone is Michael Fawcett, the prince's personal valet. Since Fawcett is, according to various news reports, the only person Charles trusts with this awesome responsibility, one must presume that the heir to the throne's dental hygiene declines precipitously whenever the valet goes on vacation.*

-MSNBC.com

News You Can Use

We would like to introduce you to our newest staff member Dr. Brian Bovino. Brian F. Bovino, DMD, received his dental degree from Fairleigh Dickinson University School of Dentistry in 1985. He completed a general practice residency in dentistry at Mt. Sinai Medical Center in New York City in 1986. He served as junior fellow in oral & maxillofacial surgery at Woodhull Hospital in Brooklyn New York, finishing in 1987. He com-

pleted a residency in oral & maxillofacial surgery at St. Luke's/Roosevelt Hospital Center in 1990. Dr. Bovino currently holds the position of Director of the Oral & Maxillofacial Surgery Residency Training Program at St. Luke's/Roosevelt Hospital center.

BRIAN BOVINO, DMD



have not shown that prilocaine or articaine is superior to 2% lidocaine in achieving inferior alveolar anesthesia. Given this information, it is recom-

mended that practitioners take these risks into account when choosing a local anesthetic for block anesthesia.

Occurrence of Paresthesia After Dental Local Anesthetic Administration in the United States
JADA.ada.org

Study ID's Root Cause of Local Anesthetic-Related to NSDs JADA May 2011 Monitor June 2011 Vol. 22, No.3.

Dr. Brian Simpson
announces the eighth meeting of the

NANUET IMPLANT STUDY GROUP

speaker: Brian Bovino, DMD

Tapered Implants and Bone Grafting

Thursday, September 15, 2011

Restaurant X 117 North Rte. 303 Congers, NY
Dinner: 6:30 Presentation: 7:00 — 9:00 pm

2 CE credits awarded by the Ninth District Dental Association
Cost: \$30.00

**Please bring your cases and documentation
(photos, x-rays, models) for discussion.**

**To register, contact Theresa: 845-623-3497
or email her at theresag@drbriansimpson.com**

The quality of a person's life is in direct proportion to their commitment to excellence regardless of their chosen endeavor. — Vince Lombardi