The Anesthesia Research Foundation (ARF) is a 501(c)(3) foundation that was founded in 1956 by The American Dental Society of Anesthesiology (ADSA) to promote and encourage research and education in the fields of sedation, anesthesia and pain control in dentistry. Through the years, the ARF has been instrumental in identifying initiatives of interest to dentistry in the areas of sedation and anesthesia, and in providing pilot funding and grants for projects that have resulted in significant advances in basic science and translational research. With its emphasis on enhancing training programs, creating opportunities for advanced training and developing the next generation of academic dental sedation and anesthesia educators, the ARF awarded grants to training programs distributed across the country to establish and maintain dental anesthesia residencies.

Specific recent projects have included the 2003 Workshop on Enteral Sedation held in conjunction with the United States Pharmacopeial Convention and the Dental Anesthesia Research Group of the International Association for Dental Research, and the Town Hall meeting with the ADA President and invited representatives from various dental organizations with an interest in dental sedation and anesthesia for a discussion of the new ADA Guidelines on the Use and Teaching of Sedation and General Anesthesia to dentists.

The ARF continues to welcome grant requests for projects that relate to the mission of the ADSA. Grants are limited to $25,000 and are subject to a peer review and evaluation. Anesthesia Progress, the official journal of the ADSA, is expected to receive first right of publication for the funded project.

It is only through your generous contributions that the ARF is able to continue to support young investigators for pilot studies that may lead to further funding, and to undertake projects that make a difference for sedation and anesthesia in dentistry. Among recent contributions to the ARF is the establishment of the endowed Michael J. Brienza Memorial Lecture and the challenge-fund donation from the Washington Component of the ADSA. Examples of funded past and ongoing projects are listed below:

**Examples of funded grant proposals that address questions important to sedation and anesthesia in dentistry:**

**Dental fear and anxiety as a barrier to accessing oral healthcare among patients with special health care needs.**

**Assessing the Need for Anesthesia and Sedation in the General Population.**

**The Chemical and Physical Stability of a 1:1 Mixture of Propofol and Methohexital.**

**Effects of Nitrous Oxide on Intracellular Events of GTI-7 nRH-Secreting Neurons.**

**Development of a Local Anesthesia Curriculum on Digital Media for Predoctoral Dental Students (Ongoing).**
Dr. John Yagiela, UCLA - This comprehensive syllabus with integrated video and Internet connectivity will be distributed free of charge to all dental students as a new national reference source.

**Development of a Continuing Education Program Utilizing High Fidelity Human Simulation for Respiratory and Cardiovascular Emergencies that served as template for the ADSA simulation courses.**
Piloted and initial development in Dayton, OH 2006

**Symposium and workshop on conceptual elements of an emergency airway rescue course for moderate sedation providers.**
The Anesthesia Research Foundation of The American Dental Society of Anesthesiology
by: Morton Rosenberg, D.M.D.

University of South Carolina Medical College, 2007
This workshop created the elements of the response to the ADA Foundation RFP and was responsible for the awarding of the grant to the ARF.

Practitioner Network to Document the Safety of Outpatient Sedation Services (Ongoing)
Dr. Sharon Gordon, University of Maryland College of Dentistry
Grant Awarded 2007

Workshop on Enteral Sedation in Dentistry 2003
The Anesthesia Research Foundation was instrumental in conceiving, funding and organizing the Workshop on Enteral Sedation in Dentistry that was held in Washington, D.C. on December 2 - 3, 2003. Co-sponsored by the United States Pharmacopeial Convention, Inc. (USP) and the Dental Anesthesia Research Group of the International Association for Dental Research, this conference brought together medical and dental communities of interest along with basic science and clinical experts to review the scientific basic and clinical practice and evidenced-based foundations of enteral sedation in dentistry.

The report from this Workshop resulted in a major publication of its findings that continues to provide the basis for discussions in creating guidelines, providing directions for research and clinical practice for enteral sedation in dentistry.

Balancing Efficacy and Safety in the Use of Oral Sedation in Dental Outpatients
Raymond A. Dionne, DDS, PhD, John A. Yagiela, DDS, PhD, Charles J. Coté, MD, Mark Donaldson, PharmD, Michael Edwards, DMD, David J. Greenblatt, MD, Daniel Haas, DDS, PhD, Shobha Malviya, MD, Peter Milgrom, DDS, Paul A. Moore, DMD, PhD, MPH, Guy Shampaine, DDS, Michael Silverman, DMD, Roger L. Williams, MD and Stephen Wilson, DMD, MA, PhD