

Lecture Title: Temporary Anchorage Devices through Biomechanics: Toward a Better Understanding of Optimizing Appliance Design.

Summary/Abstract:

This lecture will present analyze the biomechanics of challenging clinical situations where Temporary Anchorage Devices can be used in conjunction to the straight wire technique. The presentation will focus on different anchorage situations such as molar intrusion, open bite correction and space closure with anchorage concerns. Some of the challenges in appliance designs will be analyzed and discussed for optimization. Clinical examples will include intrusion of posterior teeth and unilateral molar protraction and open bite correction.

Learning Objectives:

- Recognize the need for using temporary Anchorage Devices as an adjunct to orthodontic therapy.
- Analyze the desired force system to optimize tooth movement.
- Optimize appliance design to produce the desired tooth movement.

Short Bio:

Dr. Bhavna Shroff, a native of Paris, France got her dental degree at University Paris V Rene-Descartes. She practiced general dentistry for three years and was a part time instructor at the University Paris V Rene-Descartes, Dental School. She completed her Orthodontic residency program at the University of Connecticut where she obtained her certificate in Orthodontics and Masters in Dental Sciences. Dr. Shroff is currently a Professor and the Graduate Program Director at the Virginia Commonwealth University. Dr. Shroff has lectured extensively in the US, in Europe, and in Asia. She is a member of the AAO committee on Scientific Affairs, the immediate president of the North Atlantic Component of the Angle Society and Secretary of the Angle Society. Dr. Shroff's research interests have been focused on the fundamental mechanisms of tooth eruption and she has successfully attracted intramural and extramural funding from NIDR, the AAOF, and the AD Williams foundation. Dr. Shroff also has expertise in biomechanics and appliance design. Dr. Bhavna Shroff is a Diplomate of the American Board of Orthodontics and a fellow of the American College of Dentists and was awarded a Masters in Public Administration from the L. Douglas Wilder School of Government and Public Affairs at VCU.

Contact Information:

Bhavna Shroff, DDS, MDentSc, MPA
Professor and Graduate Program Director
Department of Orthodontics
VCU School of Dentistry
520 North 12th Street, Room 111
P.O. Box 980566
Richmond, VA, 23298-0566
Phone: (804) 828-9326
Fax: (804) 828-5789
www.vcu.edu/dentistry/ortho