

ABSTRACT

Lecture 1: Acceleration of Orthodontic Treatment: Science and Evidence

Numerous methods and technologies have been proposed and investigated. Often investigative studies do not corroborate claims of the commercial enterprises. At the University of Connecticut we have been investigating the role of biomechanics, orthodontic wires, TADs, mechanical vibratory devices and the role of corticision and piezocision in accelerating orthodontic tooth movement. Results of ongoing clinical prospective studies (piezocision, salivary markers and pulsating forces, and status of oral flora with invisalign aligners) will also be presented. Our results show that piezocision does not significantly accelerates alignment of crowding. Clinical studies related to various methodologies will also be discussed with examples of various patients and/or experimental studies.

Lecture 2: Managing Complex Patients with TADs and Surgery First

Skeletal anchorage and Surgery First have simplified correction of complex problems which were often difficult to manage. They allow us to correct difficult problems with predictable results. This presentation will emphasize that sound biomechanics becomes even more important with TADs and Surgery First. Different malocclusion corrections will be shown with TADs and intelligent and smart mechanics.

CV

Brief Curriculum Vitae

Dr. Ravindra Nanda is at present a UConn Alumni Endowed Chair, and Professor and Head of the Department of Craniofacial Sciences and Chair of the Division of Orthodontics, University of Connecticut, Farmington, Connecticut, U.S.A.

He received his dental training from Lucknow University, India. He received his orthodontic training first at Lucknow, India and then from Nijmegen, The Netherlands and the University of Connecticut. He also received a Ph.D. for the University of Nijmegen. He was an Assistant Professor of Orthodontics at Loyola University, Illinois from 1970 to 1972 and since 1972 he has been associated with the University of Connecticut.

Dr. Nanda has been author and co-author of seven orthodontic books and more than two hundred scientific and clinical articles in major journals. He is Editor-in-Chief of

Progress in Orthodontics. He is on the editorial board of ten different national and international orthodontic journals. He is also an associate editor of Journal of Clinical Orthodontics.

He is an active member of various organizations, including the American Association of Orthodontists, the European Orthodontic Society and the Edward H. Angle Society. Dr. Nanda is a Diplomate of the American Board of Orthodontics. He has given numerous named lectures at national and international societies including the Mershon Memorial Lecture at the American Association of Orthodontics Annual Session and Sheldon Friel Memorial Lecture at 2011 EOS Congress. He has been recognized with various awards from numerous international orthodontic organizations.

Dr. Nanda is a co-editor of a book Retention and Stability. His most recent books are Biomechanics in Clinical Orthodontics, Biomechanic and Esthetic Strategies in Clinical Orthodontics, Temporary Anchorage Devices in Orthodontics, Current Therapy in Orthodontics and Esthetics and Biomechanics in Orthodontics. His new book is titled "Atlas of Complex Orthodontics".