



Pr Stella CHAUSHU MDS, PhD

Dr. Stella Chaushu is Vice Dean, Full Professor and Chairperson of Department of Orthodontics, Hebrew University-Hadassah School of Dental Medicine, Jerusalem, Israel, from where she earned her DMD and Specialist in Orthodontics degrees and her MSc and PhD in Immunology.

Prof. Chaushu is extensively involved in promoting orthodontic research through her numerous leadership positions, scholarly publications, conference presentations, and teaching, which have garnered her awards and recognition around the world, including the prestigious Dewel award, given for the highest-ranked clinical research published in the American Journal of Orthodontics and Dentofacial Orthopedics and of Orthodontics in 2015. She has authored together with her colleagues more than 100 scientific papers, 20 chapters in books and 2 patents. As a clinician she is considered an opinion leader in treatment of impacted teeth, adult orthodontics and Special Needs patients. Her basic science research focuses on the role of the immune system in orthodontic tooth movement. Dr. Chaushu is a member of the Editorial Board of American Journal of Orthodontics and Dentofacial Orthopedics and of Orthodontics, Associate Editor of Seminars in Orthodontics and past Associate Editor of Progress in Orthodontics.

Abstract: “When it comes to severe impactions, timing is everything”

Impacted teeth are a relatively common dental anomaly. However, their treatment is usually long and complicated due to many factors that are not present in routine orthodontics. Some of these factors are related to pathology of the tooth itself, but others are dependent on us, the orthodontists. Understanding how to interpret 3-dimensional imaging is crucial for accurate diagnosis of pathology, root shape, length and integrity and location of the impacted tooth and also resorption of the adjacent roots. Since surgical exposure is usually required to access the impacted tooth, close cooperation between the orthodontist and the oral surgeon is mandatory for planning the best surgical approach, with minimal damage to hard and soft tissues. A reliable anchorage unit which allows application of controlled directional forces with minimal side effects on the anchorage teeth must be build-up. Mechanotherapy is challenging due to the need for complex movements, especially torquing the roots of extremely displaced teeth. With so many things that can go wrong, prognosis of treatment becomes uncertain. This lecture will discuss some of the key factors in determining a successful outcome in different types of impactions, with special emphasis on the importance of early diagnosis and timing of initiation of orthodontic treatment.