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Dental implants interactions with modern orthodontics

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Introduction: Dental implants have become predictable and reliable adjuncts for oral rehabilitation. They could be part of the orthodontic therapeutic plan or inserted before starting orthodontic treatment.

Objectives & Methods: This presentation aims to discuss the interface between orthodontics and dental implants: When, why and how modern orthodontics can make use of, deal with, or avoid using dental implants. A variety of interesting clinical cases will be presented in the following categories:

1. Orthodontic interactions preparatory to implant placement versus orthodontic space closure in subject with missing teeth.
2. Orthodontic interactions after implant placement and how we can use the implant as an anchorage tool, but overcome the obstacle of presence of dental implant opposing the orthodontic movement by showing possible orthodontic tricks and tips.

Results: Variable desirable results can be obtained from orthodontic interactions with dental implants: Uprighting mechanics, Extrusion/Intrusion, Delayed space opening, Retraction, Realignment, Closing spaces to eliminate the need for implants, Midline correction, Repositioning & stabilizing teeth, Improving occlusal relation-ships, Providing anchorage for orthopedic & orthodontic movement, Tissue augmentation (both hard & soft) site development.

Conclusions: The management of the Orthodontic mechanics can be simplified, accelerated, facilitated by the placement of an implant & utilization as integral part of mechanotherapy. If we don't have a precise target with the implant we don't include it in our mechanical system. Interactions between dental implant and modern orthodontics is a complex procedure requiring a multidisciplinary approach.

Biography

Hisham Atwan is a specialist in dento-facial orthopedics and orthodontics, graduated from Lille II University in France. A member of the French, WFO, the Arab and the Palestinian orthodontic societies. A member of the Key Opinion Leaders club in Ormco Company. Active member of European Society of Lingual Orthodontics. The previous head of the scientific committee in the Palestinian orthodontic society. He completed highly professional orthodontic courses in self-ligating systems and lingual orthodontics in Europe, and participated in many Arab and international conferences. Head of the Atwan Orthodontic Center in Bethlehem for the last 19 years, with a special interest in using the self-ligation system for the last 16 years.

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