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Orthodontists: Are we the grafters? Orthodontic implant site regeneration vs. surgical bone grafting procedures

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Placing dental implants within the dental arch is always bounded by critical requirements. Every implant site should have basic thickness and quality of bone and soft tissues that varies among different sites. Alveolar atrophy following traumatic, atraumatic and chronic dental extraction is a major issue that complicates a lot of implant placement procedures. Hence the great need for implant site development was addressed. Over years, clinicians and researchers have invented plenty of surgical procedures in order to regenerate the atrophic edentulous sites starting from the atraumatic extraction maneuvers up to the surgical augmentation of the atrophic sites using block autografts, xenografts, allografts or synthetic grafts. Based on thorough orthodontic understanding, orthodontic tooth movement is associated with new bone developing at the orthodontic movement direction as well as remodelling of the site in which tooth move from. Lately, this simple concept raised a new alternative for atrophic edentulous site regeneration needed for implant placement. Orthodontic implant site development (OISD) is now a part of the multidisciplinary dental care which is offered by the joint help of implantologists, prosthodontists and orthodontists. This brief presentation is going to offer a compressive understanding of the OISD indications, procedures, success and failure rates as well as -most importantly- the level of evidence behind this manoeuvre in comparison to the classic surgical implant sites augmentation procedures.

Biography

Ahmed Tarek El-Shanawany is a final year orthodontic MSc student at University of Dundee, Scotland, UK. He has passed all the MSc modules with (A/Excellence) grades. He is supposed to finish the MSc degree by the end of January 2016 and he was awarded the MSc award in May of the same year. He is preparing to set the Royal College of Surgeons Orthodontic Membership Examination (MOrth) at 2016. He has a great interest in the branches of evidence-based orthodontics, multidisciplinary treatments as well as efficient orthodontic treatments.

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