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Rejuvenation of maxilla with zygomatic implants as a part of pre-prosthetic surgery

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Zygomatic implants are surgical as well as prosthetic solution for both two -stage and immediate loading protocols. Zygomatic implants are placed by using an immediate loading procedure these days. These are commonly used for severely resorbed edentulous maxilla, but they can also be used in partially edentulous conditions. Indications for zygomatic implant insertion comprise: alternative for sinus augmentation, failed sinus augmentation, rehabilitation after tumor resection or trauma, conventional implants failure, failure of preceding bone grafts. The placement of zygomatic implants involves sufficient training and surgical proficiency. In the conventional protocol, zygomatic implants are inserted through the alveolar crest and maxillary sinus, which involves the zygomatic bone for anchorage. Long-term prospective studies with the standard 2-stage and immediate loading methods record elevated success rates with only negligible complications. The increasing survival rate of these implants is 96% after 12 years. When anterior implants placement is not possible for totally resorbed maxilla, the concept can be extended by introducing 2 supplementary zygomatic implants in a more anterior position. Nowadays, zygomatic implants are often immediately loaded with a fixed bridge. They are used to deliver support for implant bridgework where there has been a considerable amount of bone lost from the upper jaw, and regular dental implants cannot be used on their own to support a bridge. The implants are longer than ordinary dental implants, and involve strong bulk of bone that forms the cheekbone. Therefore, the implants can be used as substitutes to complex bone grafting procedures, making it feasible to carry out surgery in just one simple stage.

Biography

Farhana Nazir has completed her Bachelor of Dental Surgery along with 1 year of clinical internship from Dow University of Health Sciences, Pakistan. Her passion for learning about new advances and procedures in dentistry led her to travel around the world and visit UK's most reputed institutions, as well as US for electives. These experiences proved to be very helpful and developed confidence in her. She has great communication skills and patient handling. She has been active in her field by participating in various dental conferences with her presentations and hopes to continue learning about new developments in dentistry.

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