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Short Dental Implants as Promising Solution in Implant Dentistry

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Osseointegrated implants have become a routine solution for treating edentulous patients. Dental implants have a favorable long-term prognosis when compared to conventional fixed prosthodontics.

The implant length is usually considered during the treatment planning and the length is decided based upon the existing bone. After teeth extraction the jaw bone volume is lost creating a real challenge to place implants with adequate length. Moreover and subsequent to poor bone volume; implant placement become risky as we have some important anatomical structures such as the nasal cavity, maxillary sinus mental nerve, mandibular nerve and lingual vascular bundle.

There are many surgical procedures to compensate for bone deficiency, such as sinus and/or ridge augmentation procedures. They are proven to be successful in providing sufficient bone quantity and quality for implant placement and prosthetic support; However, increased cost, surgical time, morbidity, and healing time are often associated with these procedures. Such limitations are more significant while treating elder group of patients where in addition to their normal delayed healing power; mostly they are suffering some co-morbidities and unfavorable systemic conditions which are negatively affecting the healing process after surgeries.

Hence implants with alternative length and diameter were introduced in response to clinical demands. In the last decade, use of short implants has become a growing interest among clinicians. Encouraging survival rates have been reported over time. Recent systematic reviews indicated that short implants have the same survival rates and degree of marginal bone loss as longer implants. Short implants bio compatibly transfers occlusal forces from abutment to surrounding bone. The entire design of short implant optimizes the effectiveness of each of the features within the available implants surface area and length. Short dental implants could be a reliable and predictable alternative solution for those cases with less than optimal ridge bone volume.

Key words: Implant size, reliability of short dental implants, ridge bone volume, predictable survival rate.

Biography:

Dr. Hussein Labib had obtained his B.D.S. from Cairo University in 1984. Dr.Hussein Labib holds three Master degrees; the first is in Oral Surgery from Cairo University (1992). By 2010 Dr. Hussein had finished his second MSc degree in implant dentistry from Warwick University in the United Kingdom. The last degree was MBA-HC in 2016 From Geneva Business school, Switzerland. Dr. Hussein Labib is a co-author of many published articles in the field of implants dentistry in the last few years.