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Anterior ridge splitting

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Background: Several factors should be considered during treatment planning for achievement of optimal esthetics and function when tooth replacement by means of dental implants is indicated.

A major limitation for successful implant placement remains the problem of inadequate alveolar ridge width, a minimum ridge width of 6mm is necessary for successful outcomes. The ridge-splitting technique aims at the creation of a new implant bed by longitudinal osteotomy of the alveolar bone.

Objectives: The present study was conducted to evaluate and compare clinically, radiographically and histologically between autogenous bone versus a mixture of autogenous bone and β -TCP in cases of splitting technique for maxillary anterior alveolar ridge widening simultaneously with dental implants.

Materials and Methods: A total number of forty subjects were involved in the present human study then classified randomly into Group A (anterior ridge splitting simultaneous with implant placement with a mixture of autogenous corticocancellous bone) and Group B (anterior ridge splitting simultaneous with implant placement with autogenous corticocancellous bone only).

Results: A statistical significant difference of increased ridge width and increased bone density score from pre-operatively to 6 months for both groups. There was no statistical significant difference between both groups in regarding ridge width & bone density.

Conclusion: Ridge splitting techniques are useful for managing the narrow edentulous ridge for implant placement or interpositional bone grafting.

Biography

Walid Aly Hamed Abdelrahman Elamrousy is Lecturer in the Department of Oral Medicine and Periodontology, Assuit University, Assuit, Egypt. he worked as Demonstrator in the department of Periodontology, Oral Medicine, Diagnosis and Radiology, Faculty of Dentistry, Alexandria University also as Assistant teacher in the department of Periodontology, Oral Medicine, Diagnosis and Radiology, Faculty of Dentistry, Pharos University, Alexandria, Egypt.

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