

15. Peri-implant bone augmentation in the esthetic zone with j shaped block bone allograft : case report with a 2 year follow up

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The reconstruction of deficient alveolar ridges using grafting techniques allows for ideal implant placement restoring not just function but also esthetics. Implant placement without bone graft would result in black triangles, that will result in a poor esthetic outcome. Although autogenic block bone grafts are the ideal choice, it would need a secondary surgical site and has higher risks of site morbidity. An easy alternative would be allograft block bone grafts. This case report presents the rehabilitation of peri implant bone defect with guided bone augmentation using block bone allograft in esthetic zone with a 2 year radiological follow up. A young male patient presented with a missing site 11, with significant bone loss of about 10 mm. An irradiated cancellous block bone allograft (Rocky Mountain) was selected and a j-shape was obtained from the block bone, in-order to cover the vertical as well as horizontal defect which allowed adequate augmentation of the height and width of the defective site. At 4 months follow up, CBCT revealed well augmented site and adequate bone quantity for implant placement. Ankylosis c/x implant (A11) was placed 1mm subcrestally at the site and rehabilitated 3 months later. Patient was then recalled 3 months post implant placement for second stage surgery and prosthetic rehabilitation. Conclusion: the j shaped block bone graft successfully regenerated the height and the width of the bone. A two year follow up showed good peri implant bone coverage. As a result, the final prosthesis attained pleasing pink and white esthetics.

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