Rehabilitation of the severely resorbed maxilla using an implant-anchored prosthesis presents a complex challenge to the oral and maxillofacial surgeon. Particularly in the maxilla, loss of alveolar bone height and buccolabial bone width, often combined with a reduction in bone density, severely compromises its retention capacity. This book reports the authors’ 15-year experiences with autogenous onlay bone grafting and simultaneous endosseous implant placement in the reconstruction of the edentulous atrophic maxilla. With an overall survival rate of 95% after 5 years and 93% after 10 years, this approach offers a highly predictable treatment option for patients who previously could not benefit from implant treatment.

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