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Minimally Invasive Implant Placement in a Narrow Mandibular Anterior Ridge A Case Report

Finnaoui Oumaima, Hanine Yasmine, Chraibi Rime, Mahir Fatima Zahra, Song Sun Myoung

Introduction :

Rehabilitation of the mandibular anterior region can be challenging when ridge width is limited. The use of narrow-diameter implants in such cases allows a minimally invasive approach, avoiding grafting procedures while maintaining satisfactory functional and aesthetic outcomes.

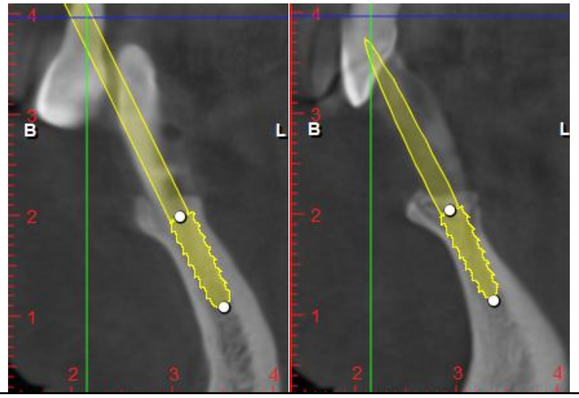
This report describes the placement of two narrow implants with a conical connection in a thin mandibular anterior ridge without bone grafting.

Methods :

A 64-year-old patient presented with terminal root lesions in the mandibular anterior region. After clinical and radiographic evaluation, extraction of the affected teeth was performed.

Two narrow-diameter tissue level implants (2.5 × 9mm, conical connection) were immediately placed with good primary stability (insertion torque ≈ 35 Ncm) in the prosthetically driven position. Healing abutments were connected.

Baseline clinical situation



Virtual implant planning

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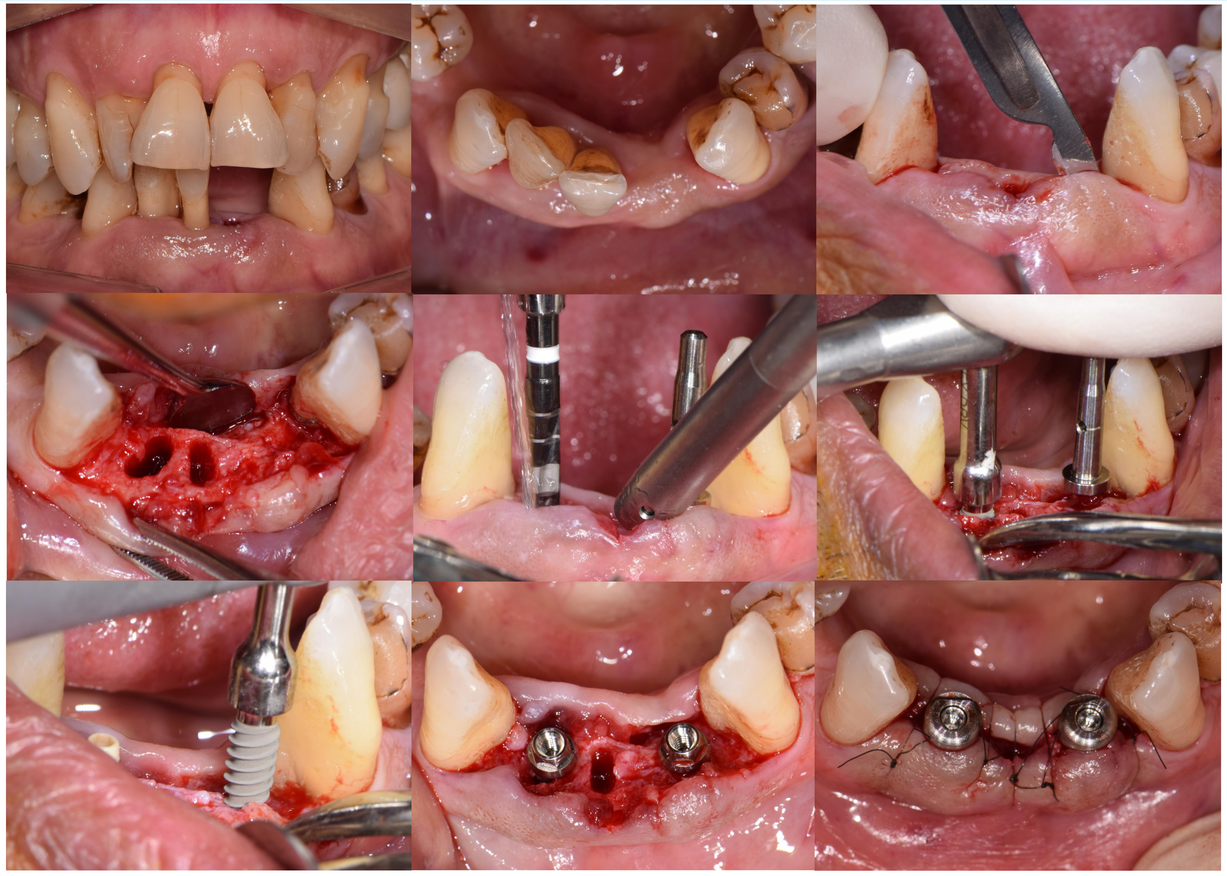

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Results :

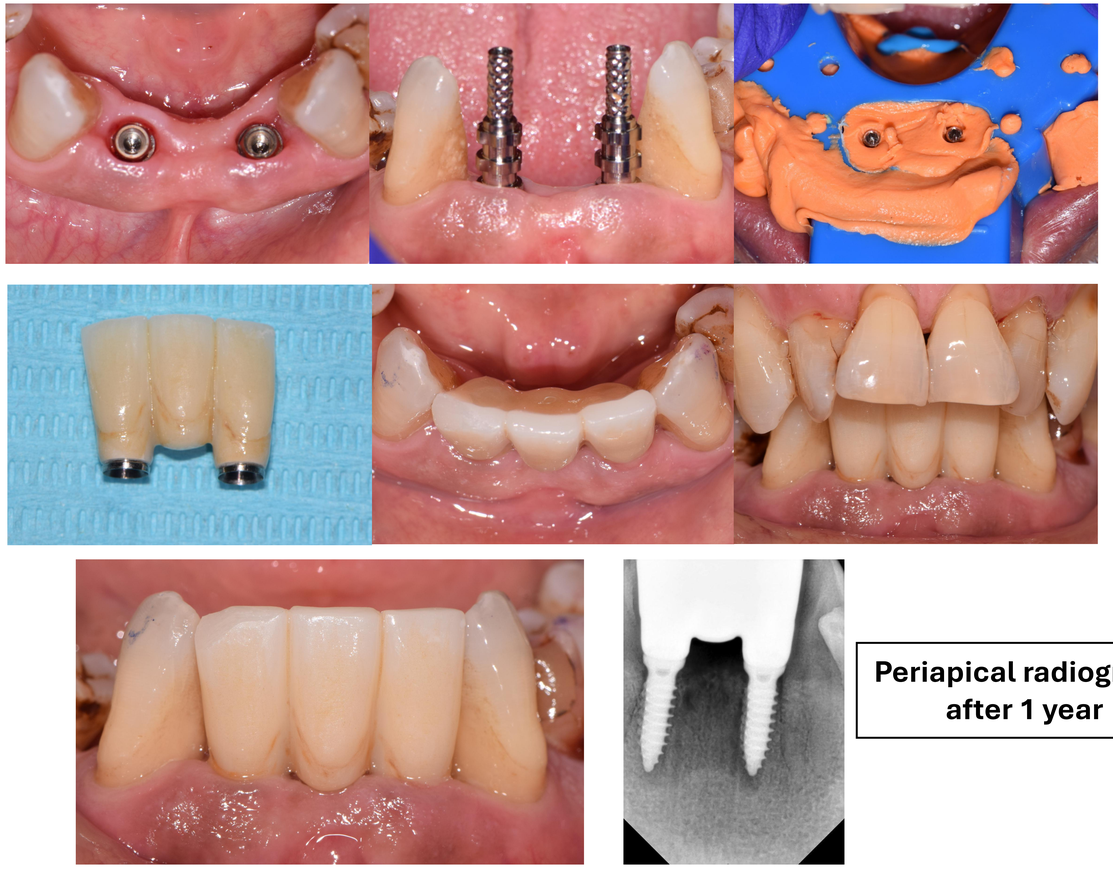
After one year, radiographic evaluation showed stable crestal bone levels.

The final fixed restoration achieved satisfactory esthetics and function.

Conclusion :

Minimally invasive implant placement using narrow-diameter implants is a predictable treatment option for managing narrow mandibular ridges.

This approach avoids additional surgical procedures, reduces patient discomfort and shortens overall treatment time.



Periapical radiograph after 1 year