



Treatment of Large Defects for Posterior Single Implant Placement

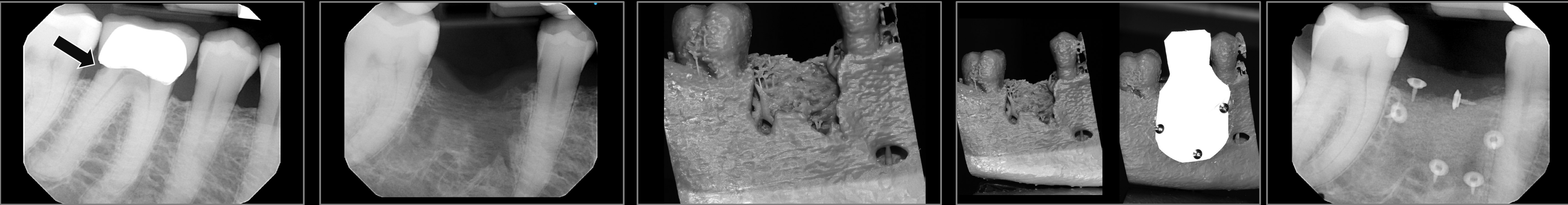
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ABSTRACT

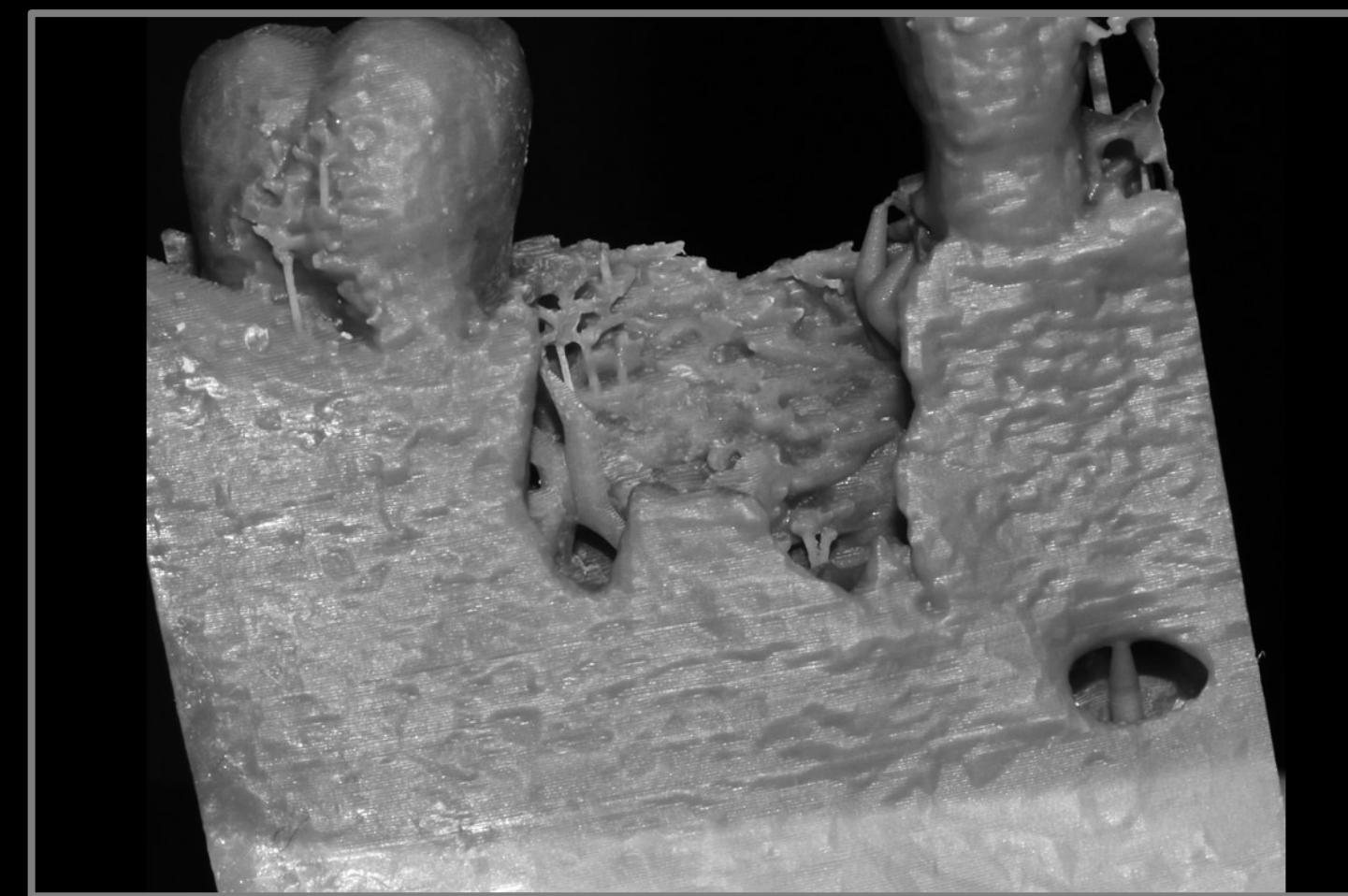
Implant placement in ridges with large bone deficiencies is challenging, requiring careful treatment planning, including the implant type, size, position, and restoration. The development of computed tomography (CT) and 3 Dimensional (3D) scan printing enabled the visualization of bone morphology for implant treatment planning. Using 3D models, an implant can be simulated using a

radiographic stent showing the correct prosthetic positioning. In addition, the 3D model can be used as a surgical guide for simulating the surgery while visualizing the anatomical landmarks. The purpose of this case report is to demonstrate how a 3D model simulation can help to achieve successful surgical and restorative results for challenging implant placement.

CASE 1. #30. Large defect due to traumatic surgical extraction



CASE 2. #5. Large defect due to multiple endodontic failures



CASE 1. Large defect due to traumatic surgical extraction



CASE 2. Large defect due to multiple endodontic failures

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