





a mandibular denture for approximately 20 years,

resulting in a severely resorbed ridge. Additionally,

and not in need of replacement, the patient was not satisfied with the fit and function of the prostheses.

At the planning appointment, an intra-oral exam and

the patient's candidacy and determine the necessary

cone beam CT scan were performed in order to confirm

length and diameter of the implants to be used. If access

to a CBCT is limited, an Orthopantomagram is typically

denture cases. The standard treatment of four 3M ESPE

MDI Mini Dental Implants in the mandible was accepted

At the placement appointment, the locations for the four

instructed to stick his tongue up and out, and the lingual

was palpated in the areas of the mental foramina, and

lines were marked in these positions as well. Four dots

were then marked in total, two on each side of the

anterior. A high-speed handpiece with a chamfer

diamond was used to dimple the ridge with a gentle

used to create a pilot hole approximately half to two-

tapping motion, and the 1.1mm MDI pilot drill was then

thirds the length of the implant to be used (Fig. 1). The

hole with the implant vial cap. A finger driver was then

used to continue advancing the implant several turns. A

winged thumb wrench and ratchet wrench were utilized

for the final positioning to achieve 35Ncm of torque. After

the first implant was placed, it was used as a paralleling

angulation. This procedure was then repeated until all

As previously mentioned, in this case the patient's

existing denture would be retrofitted with housings for

applied to the intaglio surface of the denture, and it was

use over the implants. Bite registration material was

four implants were fully seated in their final position (Fig.

point to establish the adjacent anterior implant

2).

hours.

Conclusion

dentistry.

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implant was removed from the vial and placed in the pilot

frenum was used as a reference point. The buccal border

implants were marked on the ridge with a surgical marking pen. To mark the midline, the patient was

sufficient to confidently plan most MDI mandibular

by the patient.

although the denture currently in use was relatively new

Fig 2: The four implants

immediately folowing placement.

midline to indicate the implant sites and two dots 6mm anterior to the foramina. The area was then anesthetized with a single carpule of articaine and epinephrine.

The implants were placed one at a time, beginning in the

then placed in the mouth as the patient gently bit down with the upper denture in place. The lower denture was relieved in the areas of the implant heads. Blockout shims were cut and placed on the implants and metal housings were placed on each implant over the shims. Secure hard pick-up material was applied to the underside of the denture and onto the metal housings in the patient's mouth (Fig. 3). The denture was seated in the mouth and the patient was instructed to apply normal bite pressure for seven minutes. Following this, the denture was removed with the housings cured into place. The blockout shims were disposed of and the anterior border of the denture was trimmed to ensure patient comfort. Finally, an acrylic sealing agent was applied to the denture. The denture was seated back in the mouth

and the patient was instructed to keep it in place for 48

This case is an ideal example of how MDIs can be

placed quickly and immediately loaded, providing a

nearly instantaneous increase in a patient's quality of life.

With a thorough planning appointment, and by following

the proper protocol, dentists can provide patients with an immediate denture stabilization solution that eliminates the strict bone requirements and lengthy recovery time sometimes associated with surgical dental implant procedures. Author's Bio Benjamin D. Oppenheimer, DDS, is a graduate of the State University of New York at Buffalo School of Dental Medicine where he was acknowledged for Academic Excellence and won the International Congress of Oral Implantologists Award. He is currently a fellow of the ICOI and general member of the AAID. Dr. Ben is a lead industry speaker for progressive companies such as 3M ESPE, Dynamic Dental Instruction and Global Dental Sciences. He has previously lectured for IMTEC Corporation and Evolution Dental – an industry leading small diameter implant restorative lab. His knowledge of implant hardware, equipment, bone grafting materials and techniques, CBCT, digital implant planning and minimally invasive implant dentistry have opened new

opportunities for hundreds of dentists across the nation and continue to interest corporations worldwide. Dr. Oppenheimer has authored many scientific articles that have contributed to the knowledge base and confidence of dentists worldwide. He has also helped thousands of dental implant patients in his private practice near Buffalo, New York, where he focuses on implant

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June 2019

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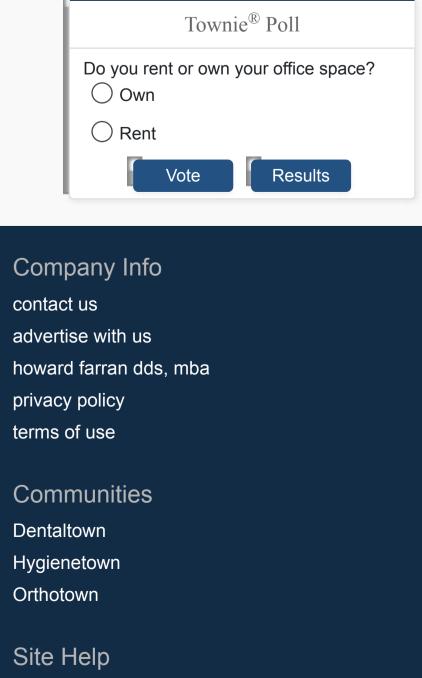
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