A successful treatment option when space is inadequate is the insertion of a mini dental implant (<3.0 mm), also known as a mini dental implant (MDI). These one-piece implants have been successfully used for the long-term stabilization of both complete and partial dentures. They range in diameter from 1.8 to 2.9 mm and in length from 10 to 18 mm, and can have either an O-ball or tapered prosthetic abutment. Due to the excellent mechanical properties these implants can be used for the long-term stabilization of both complete and partial dentures. They can be inserted in interdental space, without compromising the surrounding bone.

Mini Dental Implants for Single-Crown Restorations


References

As this case illustrates, in areas where there is inadequate space for a regular diameter endosseous implant, a mini dental implant can be considered. Furthermore, in cases where there is adequate occlusal space but inadequate labial space, an MDI can be placed labial to a natural tooth, with the occlusal forces being carried by the natural tooth. It is also important to remember to consider the patient's needs and the anticipated length of time before the crown is cemented.

Conclusion

Disclosure

Dr. Erwood presents lectures on 3M ESPE Mini Dental Implants as personal engagement, and receives free travel and accommodations.

About the Author

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An impression was made of the extracted tooth and sent to a nearby laboratory. MDI and crown were inserted to report that he had no discomfort and was pleased with his new tooth (Figure 6). The patient was given postoperative care instructions. The patient returned 1 week after the procedure in a single visit. The crown was slightly out of occlusion, which is preferred and excess cement was removed. After the cement had set, a custom reduction coping was placed on the O-ball head. The crown was light cured for 3 seconds to enhance the bond strength of the cement. A thin layer of Scotchbond™ Universal Adhesive was applied to the O-ball and tucked around the implant collar. 3M™ ESPE™ Lava™ Ultimate Restorative block and customized die was scanned with a CEREC CAD/CAM tool to ensure a path of insertion for the crown. The resulting reduction coping was then created by the technician for the head of the O-ball or tapered prosthetic abutment. Due to the excellent mechanical properties these implants can be used for the long-term stabilization of both complete and partial dentures. They range in diameter from 1.8 to 2.9 mm and in length from 10 to 18 mm, and can have either an O-ball or tapered prosthetic abutment. Due to the excellent mechanical properties these implants can be used for the long-term stabilization of both complete and partial dentures. They range in diameter from 1.8 to 2.9 mm and in length from 10 to 18 mm, and can have either an O-ball or tapered prosthetic abutment. Due to the excellent mechanical properties these implants can be used for the long-term stabilization of both complete and partial dentures. They range in diameter from 1.8 to 2.9 mm and in length from 10 to 18 mm, and can have either an O-ball or tapered prosthetic abutment.