

Clinical Case – Laser-Only MO Prep on #3

Key Attributes: This procedure was completed anesthesia-free and drill-free

Procedure by Dr. Josh Weintraub



Pre-Op Radiograph



Pre-Op



Partial Prep/ Caries indicator



Post-Op Radiograph



Prep Complete



Restored

Case Summary

The patient presented with multiple interproximal carious lesions. This case focused on the deepest lesion, which was tooth #3 MO. The tooth was prepared and restored without local anesthetic or the drill.

Technique Using Solea

Topical anesthetic (TAC) was used to ensure patient comfort when placing the interGuard between the teeth. The procedure was performed using the “Hard and Soft Tissue” setting and 100% mist. The 1.25 mm spot size was used initially at 20% cutting speed for 10 seconds, then increased using the variable speed footpedal to approximately 60% for approximately 2 minutes. After using caries indicator, the 1.00 mm spot size was used at 20% - 40% cutting speed to remove any remaining decay. The total procedure time, including placing the restoration, was 12 minutes.

Solea Advantage

By using the laser, injection was not necessary, saving time and improving patient experience. Further efficiencies were possible because of the ability to work in all four quadrants during the same appointment since the patient was not numb. The likelihood for a follow-up visit for bite adjustment was reduced because the patient could feel their bite during the original appointment.