

## Video 2: “Extra-Oral Cementation” Armamentarium

- ☐ Exam kit
- ☐ Astra Prosthetic Kit
- ☐ Alcohol
- ☐ Cotton pellets (3x)
- ☐ Self-adhesive resin cement, mixing spatula and mixing pad
- ☐ Micro-brush (recommended to delivery cement inside the crown)
- ☐ Gauze
- ☐ Explorer (to remove cotton pellet that protects the abutment screw after cementation)
- ☐ Curing light
- ☐ Chlorhexidine
- ☐ Explorer
- ☐ Floss and articulating paper, shim stock
- ☐ Cotton / Teflon
- ☐ Resin composite
- ☐ Finishing / Polishing kit
- ☐ Soft-pick



## Video 2: Steps for “Extra-Oral Cementation”

- ☐ Verify that you have the case delivered from the lab (printed model with final crown).
- ☐ Verify that you have received the radiograph of the abutment.
- ☐ Using a hemostat, remove the temporary crown.
- ☐ Remove the cotton pellet present within the abutment channel. Now with access to the abutment screw channel, use the torque wrench or screwdriver to remove the abutment.
- ☐ Meticulously clean the temporary cement off the abutment using alcohol wipes.
- ☐ Remove the final crown from the model and try it on the abutment (Tip: mark the buccal aspect of the final crown and the abutment with a permanent marker to ensure correct orientation prior to cementing extra-orally)
- ☐ Place the abutment (hand tightened) with the crown back in the mouth. Using floss, verify the interproximal contacts (Tip: have the assistant stabilize the crown while you floss down and pull through).
- ☐ Remove the abutment and crown from the mouth and separate them on your workstation. Place a cotton pellet into the access channel of the abutment. The cotton pellet should be loosely packed and will protect the abutment screw.
- ☐ Mix the luting cement on the mixing pad as per manufacturer’s recommendations.
- ☐ Use a micro brush to apply a VERY thin film of luting cement on the inside surface of the final crown (Tip: a thin film will prevent any overflow of cement). If there is overflow of cement, use a gauze to wipe it off.
- ☐ Remove the protective cotton pellet from the access of the cemented crown using an explorer. Make sure you remove the cotton pellet prior to light curing.
- ☐ Light-cure all aspects of the crown, 20 seconds each side.
- ☐ Clean the cemented crown-abutment with Chlorhexidine solution prior to placing it in the mouth.
- ☐ Place the cemented crown-abutment in the mouth, hand tighten, and confirm contacts.
- ☐ Take a final radiograph prior to torquing the abutment screw.
- ☐ Torque the abutment screw twice to 25 Ncm.
- ☐ Place 2 cotton pellets/teflon inside the channel to protect the abutment screw.
- ☐ Place resin composite in the access channel (over the cotton/teflon) and light cure for 20 seconds.
- ☐ Using articulating paper, check that there is light occlusion in MIP and no lateral excursive contacts.
- ☐ Shim stock should very slightly glide through in light occlusion.
- ☐ Finish and polish the resin composite.
- ☐ Provide the patient with a soft-pick and discuss oral hygiene instruction using chlorhexidine. Recommend that the patient continue with their regular oral hygiene maintenance with annual radiographs to monitor the implant.

