

# reveal<sup>®</sup>

CLEAR ALIGNERS

 HENRY SCHEIN<sup>®</sup>  
DENTAL WAREHOUSE

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**How To Guide**  
**Tips & Tricks for**  
**PVS Impressions**

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**Step 1** PVS impressions are an alternative to digital intraoral scans.

**Step 2** The impressions must capture all of the patient's dentition: both arches and bite.

**Step 3** If any part of the dentition is missing, your impressions will not be usable and it will need to be remade.

**Step 4** To take your patient's impressions, the recommended method is the one-step impression technique, using hydrophilic impression material in combination with a medium body and low viscosity wash.

**Step 5** Tray selection.

- a. It's important to choose the right tray to ensure an accurate impression

**Step 6** Tray type.

- a. Please ensure you use disposable trays, as the lab does not return them
- b. Full arch, perforated plastic trays are ideal for clear aligner impressions
- c. They have a mechanical retentive feature that reduces the risk of distortion during removal

**Step 7** Tray size.

- a. There should be a 2 to 3-millimeter space between the sides of the tray and the patient's teeth and the tray should extend for 2 millimeters beyond the terminal molar
- b. The tray should also be deep enough to allow for 2 to 3 millimeters of material between the tray and plastic and the incisal or occlusal edges of the patient's teeth
- c. Secondly, the tray should reach at least 2mm onto the gingiva

**Step 8** Applying adhesive.

- a. Once you've selected a tray, dry the surface with gauze before applying the adhesive
- b. PVS tray adhesive should be applied on the tissue surface of the tray covering an additional 5 millimeters over the external border to help prevent delamination
- c. Make sure the tray adhesive is dry before making the final impression

**Step 9** Dispensing PVS material.

- a. A combination of medium body and low viscosity wash should be used to make the impression
- b. Before applying each to the tray, dispense a small amount from the cartridge or syringe and check for a proper mix
- c. Fill two-thirds of the tray with the medium body
- d. Spread it with the tip of the dispenser to make sure it is applied at a level thickness
- e. Then, fill the final third of the tray with the low viscosity wash
- f. Again, spread it to ensure the material is level

### Step 10 Inserting the tray.

- a. Before inserting the tray into your patient's mouth, dry the teeth with gauze and moisture-free dry air
- b. You can block out any undercuts with wax or cotton
- c. Take the lower impression first, inserting the tray slowly, at an angle to prevent bubbles and slide marks. Take care not to rock the tray when seating it
- d. You should see impression material escaping the perforations. If you can't see this, the material set is inadequate
- e. Spread the escaping material around the tray to increase the pressure for an optimal impression
- f. When inserted correctly, the handle of the tray should line up with the patient's midline
- g. While the material sets, ensure the patient does not move and that the tray remains still
- h. PVS is fast setting, with a work time of 60 to 90 seconds

### Step 11 Tray removal.

- a. Once set, the seal around the patient's teeth may be tight
- b. To make removing the tray easier, you can blast the tissue impression interface with air. This will break the seal.
- c. The PVS impression should then be removed with a snap to prevent elastic deformation
- d. Remember to check the patient's mouth for any impression material that might have been left behind

### Step 12 Inspection.

- a. After removing the tray, carefully rinse the impression to clean away residual saliva
- b. Inspect the impression to make sure all the teeth margins have been accurately captured
- c. No tray exposure or bite ins should be visible

### Step 13 Bite registration.

- a. Next, you must take the patient's bite registration in centric occlusion
- b. To do this, apply tray adhesive to the mesh side of a full arch bite tray
- c. Then, load bite registration material to the center of the mesh on both sides
- d. Insert the tray and have your patient bite down

### Step 14 Disinfecting.

- a. If the impression is accurate, it can be disinfected as standard practice
- b. Immersion disinfectants work better than spray alternatives



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