



Tech Talk

# Crown Under Partial Techniques



A patient who needs a crown placed under a partial denture is one of the more intricate impressions required in order to get a proper fitting prosthetic.

To achieve the best possible outcome, there are three techniques available, listed below in order of preference for optimal results.

- Pretreatment Scan Technique
- Partial Inclusion Technique
- Chair Side Index Technique

***For traditional analog cases, we recommend doing a “dry try” of the crown and partial, verifying the fit of the crown with the partial before permanently cementing the crown.***

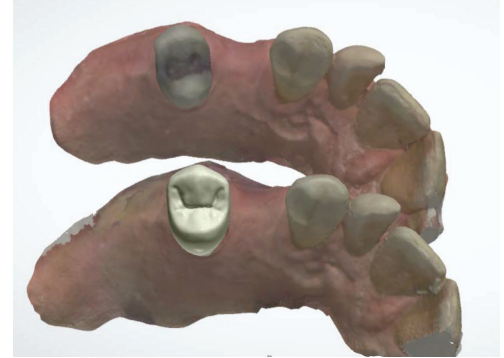
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## Pretreatment Scan Technique

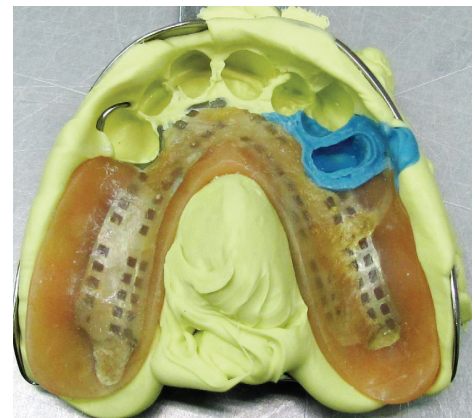
To ensure accurate digital restoration design, begin by scanning the tooth before preparation. The tooth should be designed within the specified parameters, ensuring its size remains unaffected by the scan. It's crucial that the tooth being scanned is intact—any breakage or damage will render the technique ineffective.



Additionally, no partial denture should be in place during the scan, as this can interfere with the accuracy of the digital impression. Retention characteristics remain unchanged throughout the process. This workflow is ideal for cases where you need a precise digital model of the tooth before any alteration, helping to ensure a better-fitting final restoration.

## Partial Inclusion Technique

For traditional analog cases, it's best to take the impression with the partial in the patient's mouth, leave the partial in the impression material with the prep exposed, then send the impression to the lab for fabrication. When using this method, make sure the partial is fully seated before taking the impression. Also, ensure that the partial is not dislodged during impressing.



It's important to note that in this technique, the partial cannot be returned separately from the final restoration. Using this method will provide the technician with the necessary information to fabricate a prosthetic that seats correctly.

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## Chair Side Index Technique

Another method when the partial cannot be sent is to make a partial index chair side. Put the partial in place first then, using a light body PVC, squirt some impression material around the prep and capture any rest seats or clasps. Carefully take the index off of the partial and send it to the lab with the final impression. The lab will make a GC resin partial replica.



Another helpful tip when sending an index is to include a photo of the partial including any clasps or rest seats. This will help the technician to double check the index and make sure it is correct. Only highly trained technicians with an excellent eye for detail can fabricate accurate prosthetics using this impression.

## Consistent Results

Using these techniques will help you receive more predictable results for your crown under partial cases, thus reducing valuable chair time and creating satisfied patients. If you have further questions or concerns regarding any of these techniques, please consult with your dental lab technician.

*NOTE: It is recommended to perform a dry fit try-in for either technique to ensure that everything fits accurately. This step allows for adjustments, if needed, before the final restoration is permanently cemented. Please note that DDS Lab only warranties the crown for remake if there are any fit issues, and not the original partial itself.*

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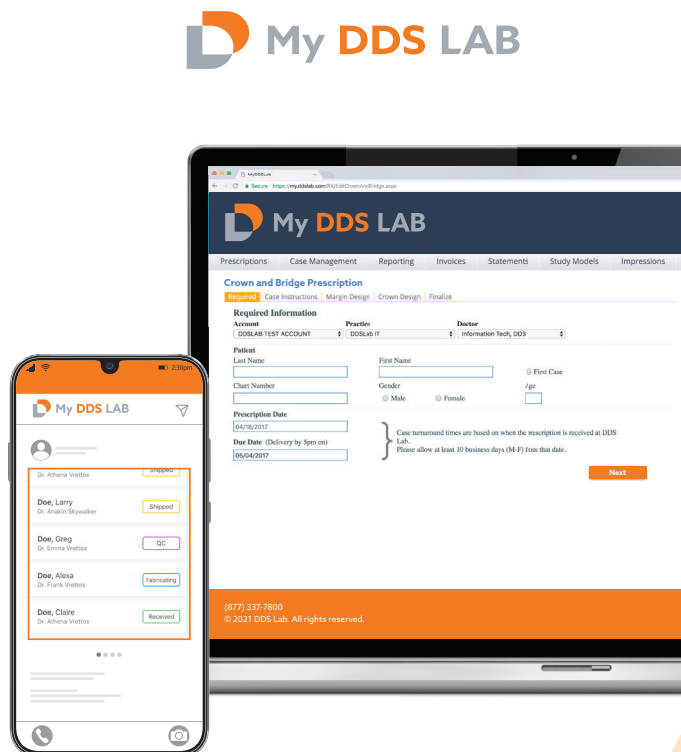
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### About DDS Lab:

DDS Lab is a NBC member and full-service Certified Dental Lab (CDL) located in Tampa, FL. DDS Lab specializes in serving group practices and provides the perfect balance between quality products and competitive pricing. For more information, contact DDS Lab at [ddslab.com](https://ddslab.com) or at 877-337-7800.

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