**1st Appointment**  
- Preliminary Abutment Level

- Remove the healing abutment from the implants. *(Fig 1)*
- Seat open tray impression copings on implants, tighten & x-ray.
- Take an implant level impression, including the palate and vestibules, using a Mira Tray. *(Fig 2)*
- Once set, loosen the guide pins and pull the impression *(Fig 3).*
- Take an impression of opposing dentition as well as the denture to be replaced.
- Send the impression with your lab Rx to Miracle, including all parts.

**Second Appointment**  
- Jaw Relation Records, Shade Selection and Implant Verification Appliance.

**Jaw Relation Records**

- Seat the bite blocks. *(Fig 4)*
- With the patient sitting up, use conventional denture techniques to achieve accurate jaw relation records.
  
  a. For maxillary cases, shape the rim for lip contour - place a small amount of Vaseline on the labial aspect of the wax rim and confirm.
  b. With the patient facing toward you, mark the midline, high lip line and corners of the mouth in the wax rim.
  c. Determine centric relations and (record passively) vertical dimension of occlusion (VDO).

  *Note: The patient’s existing denture should be evaluated and can be utilized a benchmark in determining the new VDO.*

  i. Place a dot with indelible marker on the tip of the patient’s nose and chin.

  ii. Have the patient lick their lips, swallow, then relax their jaw. Measure the distance between the two dots. Repeat this procedure 3-4 times until you obtain a consistent vertical dimension at rest measurement (VDR).

  iii. Have the patient bite together gently. The measurement should be approximately 3 mm less vertical measurement at rest. Adjust the rims, if necessary, so they meet evenly.

  iv. There should be a 2-4 mm speaking space between the rims when the patient pronounces ‘S’ sounds (e.g., Mississippi, sixty, sixty-one, etc.) The incisal edges of the maxillary central incisors should lightly touch the top of the lower lip during “f” sounds (e.g., forty, forty-one, etc.).
d. Once the VDO and a verifiable, repeatable CR are established, inject bite registration material onto the top of the wax rim and into the notches on the bite block. Have the patient bite together gently but completely.

**Shade Selection**

- Select denture tooth shade and mould. The study model of the patient’s existing denture can be used as a reference regarding the size and shape of the new teeth.

  *Note: We will match to Mondial, premium denture teeth unless otherwise directed on Rx.*

- To ensure a passive fit of the Conus abutments, the following procedures should be followed to ensure an accurate analog model.

  - Screw down implant verification appliance. *(Fig 5)*
    - i. Appliance should seat passively (no rocking).
    - ii. X-Ray fit.

  - If not seated passively, cut between implants where fit is incorrect.
    - i. Cut should not be too wide.
    - ii. Retighten screws.
    - iii. Rebond with EZ pickup material (self curing) *(Fig 6).*

- Take new pickup impression.
  - i. Use Mira Tray to retake impression.
  - ii. Inject medium body under jig to capture all anatomical landmarks. *(Fig 7)*
  - iii. Push screw through cellophane on Mira Tray *(See Fig 2).*
  - iv. Once the material has set, remove guide pins and carefully pull the impression and the final impression containing the jig.

  *Note: The verification jig is picked-up in the impression.*

- Reseat and tighten the healing caps onto the abutments.
- Return the case to Miracle enclosing all components, models.

**Third Appointment**

- **Trial Set-Up Try-In**

  You will receive from Miracle Lab: trial denture

  - Seat the trial denture.
  - Evaluate CR, VDO, occlusion, esthetic/shade, tooth arrangement and phonetics including “f” and “s” sounds as well as the midline. *(Fig 8)*
  - Change the set-up if necessary or note the requested changes on the lab Rx. If CR is incorrect, a new bite registration should be taken.

  - Please take photos.
  - There must be a minimum clearance of 12-15mm.
  - Return the case to Miracle lab.
Fourth Appointment
- Framework/Trial Set-Up Try-In

You will receive from Miracle: trial denture set-up on the Conus abutments including cast framework and placement jig. (Fig 9)

- Remove healing caps.
- Remove placement jig with Conus abutments and screw into mouth. Remove jig.
- Insert Conus denture in mouth, checking passivity and occlusion. (Fig 10)
- Remove the trial prosthesis and remove Conus abutments. Place back on jig and tighten back on original master model. Replace healing caps.
- On final Rx, please advise of any changes and final placements of Conus caps, if desired.
- Refer to Atlantis article, Dr. Montana.
- Return the case to Miracle Dental Lab.

Fifth Appointment
- Delivery of Final Prosthesis

You will receive from Miracle Lab: the final prosthesis.

- Remove healing caps.
- Remove placement jig with Conus abutments and screw into mouth. Torque screws. Remove jig.
- Place final Conus denture in mouth. Have patient bite down on tongue depressor. Check bite. (Fig 11)
- Show patient how to remove Conus denture and inform them of nightly removal and using nightguard. (Fig 12) If it is not removed daily, it will cold weld itself and make it very difficult to remove.
- Place Teflon tape on screw head and fill with composite. (Fig 13)

One Week Follow-Up Check

- Check occlusion.
- Review oral hygiene instructions
- Set recall schedule.

Case images courtesy of Dr. Mark Montana, DDS, Tempe, AZ, and Dentsply Sirona Implants.
Conus Abutment Overdenture

- Up to 4 implants
  Additional implant

*Prices include: Conus abutments, teeth verification jig, model work, bite blocks, try-ins, Conus caps and cast frame with finished Conus denture.

- Parts extra
  i. Mira trays
  ii. Open tray impression posts
  iii. Analogs

- Extra appliances needed
  i. Conus placement jig
  ii. Conus nightguard

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**SCHEDULE**

<table>
<thead>
<tr>
<th>Doctor</th>
<th>Miracle</th>
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<tbody>
<tr>
<td><strong>1st Appointment</strong></td>
<td>Take preliminary impression of edentulous arch and opposing dentition as well as the denture to be placed.:</td>
</tr>
<tr>
<td><strong>2nd Appointment</strong></td>
<td>Obtain jaw relation records, select denture tooth shade and mould. Try in impression verification appliance.</td>
</tr>
<tr>
<td><strong>3rd Appointment</strong></td>
<td>Trial denture set-up try-in and photos.</td>
</tr>
<tr>
<td><strong>4th Appointment</strong></td>
<td>Conus placement jig, Try-in Conus denture</td>
</tr>
<tr>
<td><strong>5th Appointment</strong></td>
<td>Conus placement jig, deliver Conus denture</td>
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*** Please allow 2 days for pick-up and delivery.***