### Implant Phase Flowchart

#### Surgical Phase

**Immediate Load**

1. Place implant 1-2 mm below bone.
2. Attach crown posts at time of surgery using S17000 series abutments and (AS7001) Alan Key, and (AS7033) Alan Key Driver for Ratchet and Torque Wrench (S7016-30.)
3. Take impression of crowns.
4. Add prosthesis within 48 hours.

**Two Stage**

1. Place implant 1-2 mm below bone.
2. Attach cover screw to implant using (AS7001) Alan Key.
3. Uncover implant by removing cover screw in 3-6 months using (AS7001) Alan Key.
4. Place Tissue Former (S8000 series) using (AS7001) Alan Key (or continue with step 5)
5. Place abutment using S17000 series abutments using (AS7001) Alan Key and (AS7033) Alan Key Driver for Ratchet and Torque Wrench (S7016-30).

**One Stage**

1. Place implant 1-2 mm below bone.
2. Place Tissue Former (S8000 series) using AS7001 Alan Key.
3. Remove Tissue Former in 6-8 weeks using AS7001 Alan Key.
4. Place abutment using S17000 series abutments and (AS7001) Alan Key and (AS7033) Alan Key Driver for Ratchet and Torque Wrench (S7016-30).
Soft Tissue Supported Overdenture - Restoration Phase

**Impression taking**

1. Remove Tissue Former using AS7001 Alan Key.
2. Attach O-ring (S11000 series) or Toadstool (S19000 series) abutment using (AS7003) External Hex Wrench and (ST7032) External Hex Wrench for Ratchet and Torque Wrench (S7016-30).
3. Take impression.

**Model fabrication**

4. Insert analogues (AS10005 or S10008) into impression and pour up model.
5. Remove impression. Model is ready for denture fabrication. Take the denture to insertion and acceptance stage.

**Overdenture fabrication**

6. Incorporate O Rings and keepers (AS11009 & AS11010) for S11000 series O Ring Abutments or O Rings and keepers (AS19009 & AS119010) for S19000 series Toadstool Abutments in denture during processing.
7. Relieve acrylic from above abutment post.
8. Place Soft Tissue Supported Overdenture.
Implant Supported Overdenture - Restoration Phase

**Impression taking**

1. Uncover the cover screw or healing collar to expose implant interior in 3-6 months using AS7001 Alan Key.
3. Attach Bar Post Impression Coping (AS9004) & Screw (S9013, 3.25 mm or S9014, 4 mm) using AS7001 Alan Key.
4. Take impression using open top tray. The Coping will remain in the impression.
5. Unthread the Bar Post Coping Screw using AS7001 Alan Key.

**Lab model fabrication**

6. Insert Bar Post Impression Coping into Bar Post Analogue (AS10004) and hold in position using the Bar Post Coping Screw.
7. Pour up the impression using dental stone.
8. Unthread the Coping Screw using the AS7001 Alan Key prior to removal of the impression from the model. The Coping will remain in the impression. The model is ready for bar fabrication.

**Bar fabrication**

9. Attach Bar Post Burnout Coping onto Bar Post Analogue with a 2 mm Screw (AS21001) using the (AS7001) Alan Key.
10. Wax up Retaining Bar between Copings.
11. Attach Attachments as desired.
12. Invest and cast in metal or composite of choice, Talladium, semi-precious.
13. Place Bar Supported Overdenture
Crown and Bridgework - Clinical Phase

1. Uncover the cover screw or healing collar to expose implant interior in 3-6 months using the Alan Key (AS7011).
2. Insert Direct Impression Copings and Screws (S9031D, S9013, 3.25 mm), (S9032D & S9014, 4 mm) using (AS7001) Alan Key.
3. Take impression using material of choice.
4. Remove impression tray. The Direct Impression Coping with Direct Coping screw will be left in the implant.
5. Remove Direct Impression Copings from mouth.

Lab model fabrication

5. Attach Impression Coping & Screws into Dowel Pin Analogue (S100031, 3.25 mm) or S100042, 4 mm).
6. Insert Dowel Pin Analogue/Direct Impression Post combination into the impression.
7. Pour up impression around top of the DPA with pink soft silicone to replicate the gingiva.
8. Once set, pour up the rest of the impression with stone.
9. The model is ready for Crown & Bridge fabrication.

Crown/bridge Fabrication

10. Select the abutment to be used, Crown Post Abutment (A), Titanium Interface for Zirconium (B), Titanium UCLA (C), Delrin UCLA (D) (S17000 series).
Crown and Bridgework - Lab Phase

A. Crown Post abutment

1. Insert Crown Posts (S17060 series) into analogue.
2. Tap the top of the abutment lightly to ensure a snug fit.
3. Tighten Screws (S17013, 3.25 mm & S17014, 4 mm) until snug.
4. Trim Crown Post to shape, and cast.
5. Fabricate crown to fit abutment.
6. Place crown.

B. Custom Zirconium abutment

1. Insert scan abutment (S20051B, 3.25 mm or S20052B, 4 mm) into analogue.
2. Tap the top of the abutment lightly to ensure a snug fit.
3. Tighten Screws (S17013, 3.25 mm & S17014, 4 mm) until snug.
4. Trim Crown Post to shape, and cast.
5. Fabricate crown to fit abutment.
6. Place individually shaped crown post and crown.

C. Delrin UCLA abutment

1. Insert Delrin UCLA S20051B, 3.25 mm or S20052B, 4 mm) into analogue and tap lightly to seat.
2. Insert and tighten the retaining screw (S17013, 3.25 mm or S17014, 4 mm) until snug. Do not overtighten.
3. Wax up and trim to desired shape.
4. Invest and cast using a semi precious metal.
5. Fabricate crown to fit abutment.
D. Titanium UCLA abutment

1. Insert Titanium UCLA S17051A, 3.25 mm or S17052A, 4 mm) into analogue and tap lightly to seat.
2. Insert and tighten the retaining screw (S17013, 3.25 mm or S17014, 4 mm) until snug. Do not overtighten.
3. Wax up and trim to desired shape.
4. Invest and cast using a semi precious metal.
5. Fabricate crown to fit abutment.