Quick Reference Subcrestal Surgical Protocol

Certain® Internal & External Hex Connection Parallel Walled Implants

BIOMET 3i™
PROVIDING SOLUTIONS – ONE PATIENT AT A TIME®
Quick Reference Subcrestal Surgical Protocol
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**IMPORTANT CONSIDERATIONS:**
- The recommended drill speed for drills 3.85mm diameter or smaller is 1200 – 1500rpm.
- The recommended drill speed for drills 4.25mm diameter or larger is 900rpm.
- The recommended implant placement speed is 15 – 20rpm.
- Use the drill motor / handpiece to start implant placement to ensure the implant tracks / goes into the osteotomy in the same direction as drilled.
- Verify that the drill is engaged/retained within the locking mechanism of the drill motor / handpiece, in order to prevent accidental swallowing or aspiration of the drill.
- Do not initiate implant placement with the hand ratchet as hand torquing could result in off-angle placement of the implant.
- Transition to the hand ratchet only when the implant cannot be fully seated with the handpiece.
- Apply finger pressure along the vertical axis of the ratchet driver tip and implant to ensure the driver tip does not back out of the implant’s internal connection.
- When insertion torque exceeds 50Ncm, hand ratcheting is necessary in order to fully seat the implant.
- Final Twist Drill selection is based on clinician evaluation of bone quality.
- Certain Internal Connection Driver Tips should be inspected for wear before use.
- It is recommended that reusable drills be replaced after 15 uses.

**Tapping is required for implant placement in dense bone (Type I) for parallel walled 5mm, 6mm, 5/4mm and 6/5mm diameter implants or when the insertion torque is more than 90Ncm.**

**IMPORTANT NOTE:** Exceeding insertion torque of more than 90Ncm may deform or strip the driver tip or the implant’s internal hex and may possibly delay the surgical procedure.

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**Parallel Walled 3.25mm(D) Implants**

- 2mm Twist Drill
- ACT Pointed Starter Drill ACTPSD or Round Drill RD100
- Pilot Drill PD100
- Final Drill For Soft Bone
- 2.75mm Twist Drill Medium Bone
- 3mm Twist Drill Dense Bone
- 3.25mm Dense Bone Tap MTAP1 Optional
- Cover Screw IMMCS1
- Cover Screw MMCS1
- 3i T3 / OSSEOTITE
- OSSEOTITE / NanoTite™
- 3.25mm(D) x 11.5mm(L)

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**Parallel Walled 3.75mm(D) Implants**

- 2mm Twist Drill
- ACT Pointed Starter Drill ACTPSD or Round Drill RD100
- Pilot Drill PD100
- Final Drill For Soft Bone
- 2.75mm Twist Drill Medium Bone
- 3mm Twist Drill Dense Bone
- 2.75mm Dense Bone Tap TAP13 Optional
- Countersink Drill CD100
- Cover Screw MMCS1
- 3.75mm(D) x 11.5mm(L)

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See the BIOMET 3i Surgical Manual (INSTSM) for complete and detailed instructions.
Quick Reference Subcrestal Surgical Protocol (Cont’d)
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**Parallel Walled Platform Switched 4mm(D) x 3.4mm(P) & 4mm(D) Implants**
- **2mm** Twist Drill
  - Pilot Drill PD100
- **3.25mm** Twist Drill
  - countersink Drill CD100
- **4.1mm** Drill
  - Countersink Drill CD100
- **2.75mm** Drill
  - countersink Drill CD100

**Internal Connection**
- **2mm** Twist Drill
- **3mm** Twist Drill
- **3.25mm** Drill

**External Connection**
- **4.1mm** Drill
- **5mm** Drill

**Cover Screw**
- IMCSF34
- ICSF41
- CS375

**3i T3 / OSSEOTITE™**
- **4mm(D) x 3.4mm(P) x 11.5mm(L)**
- **4mm(D) x 11.5mm(L)**

**OSSEOTITE / NanoTite™**
- **5mm(D) x 4.1mm(P) x 11.5mm(L)**
- **5mm(D) x 11.5mm(L)**

**Parallel Walled Platform Switched 5mm(D) x 4.1mm(P) & 5mm(D) Implants**
- **2mm** Drill
  - Pilot Drill PD100
- **3.25mm** Drill
  - countersink Drill CD100
- **4.1mm** Drill
  - countersink Drill CD100
- **3.85mm** Drill
  - countersink Drill CD100

**Internal Connection**
- **2mm** Drill
- **3mm** Drill
- **3.25mm** Drill

**External Connection**
- **4.1mm** Drill
- **5mm** Drill

**Cover Screw**
- ICSF41
- ICSF50
- CS500

**3i T3 / OSSEOTITE™**
- **5mm(D) x 4.1mm(P) x 11.5mm(L)**
- **5mm(D) x 11.5mm(L)**

**OSSEOTITE / NanoTite™**
- **5mm(D) x 4.1mm(P) x 11.5mm(L)**
- **5mm(D) x 11.5mm(L)**

**Parallel Walled Platform Switched 6mm(D) x 5mm(P) & 6mm(D) Implants**
- **2mm** Drill
  - Pilot Drill PD100
- **3.25mm** Drill
  - countersink Drill CD100
- **4.25mm** Drill
  - countersink Drill CD100
- **5.25mm** Drill
  - countersink Drill CD100

**Internal Connection**
- **2mm** Drill
- **3mm** Drill
- **3.25mm** Drill

**External Connection**
- **4.25mm** Drill
- **5.25mm** Drill

**Cover Screw**
- ICSF41
- ICSF50
- CS500

**3i T3 / OSSEOTITE™**
- **6mm(D) x 5mm(P) x 11.5mm(L)**
- **6mm(D) x 11.5mm(L)**

**OSSEOTITE / NanoTite™**
- **6mm(D) x 5mm(P) x 11.5mm(L)**
- **6mm(D) x 11.5mm(L)**

See the BIOMET 3i Surgical Manual (INSTSM) for complete and detailed instructions.
BIOMET 3i offers a family of synergistic system solutions to help you and your patients achieve beautiful, confident and healthy smiles.

For more information regarding Smile Therapy™ System Solutions, please contact your local BIOMET 3i Sales Representative.

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