**Quick Reference Subcrestal Surgical Protocol**

**Certain® Internal & External Hex Connection Tapered Implants**

**IMPORTANT CONSIDERATIONS:**
- The recommended drill speed for drills is 1200 – 1500rpm.
- The Quad Shaping Drills must be used without pumping actions.
- 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.
- 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) 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.

**Tapered 3.25mm(D) Implants**

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<thead>
<tr>
<th>ACT® Twist Drill Depth Marks</th>
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<td>20mm</td>
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**D** = Diameter  
**P** = Platform  
**L** = Length

**Tapered Platform Switched 4mm(D) x 3.4mm(P) & 4mm(D) Implants**

See the BIOMET 3i Surgical Manual (INSTSM) for complete and detailed instructions.
**IMPORTANT CONSIDERATIONS:**
- The recommended drill speed for drills is 1200 – 1500rpm.
- The Quad Shaping Drills must be used without pumping actions.
- 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 swelling 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.
- 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) 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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**ACT<sup>®</sup> Twist Drill Depth Marks**

- Drill Tip Max 0.6mm
- 20mm
- 18mm
- 15mm
- 13mm
- 11.5mm
- 10mm
- 8.5mm
- 7mm

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**Tapered Platform Switched 5mm(D) X 4.1mm(P) & 5mm(D) Implants**

- 2mm Twist Drill
- 3.25mm Quad Shaping Drill QS3211
- 4mm Quad Shaping Drill QS411†
- 5mm Depth/Direction Indicator NTDI511
- Required Step For Soft Bone 5mm Dense Bone Tap NTAP511
- 6mm(D) x 4.1mm(P) x 11.5mm(L)
- 6mm(D) x 11.5mm(L)
- Cover Screw ICSF41
- Cover Screw ICSF50
- Cover Screw CS500

**ACT Pointed Starter Drill ACTPSD or Round Drill RD100**

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**Tapered Platform Switched 6mm(D) X 5mm(P) & 6mm(D) Implants**

- 2mm Twist Drill
- 3.25mm Quad Shaping Drill QS3211
- 4mm Quad Shaping Drill QS411†
- 5mm Depth/Direction Indicator NTDI611
- Required Step For Soft Bone 6mm Dense Bone Tap NTAP611
- 6mm(D) x 5mm(P) x 11.5mm(L)
- 6mm(D) x 11.5mm(L)
- Cover Screw ICSF50
- Cover Screw ICSF60
- Cover Screw CS600

**ACT Pointed Starter Drill ACTPSD or Round Drill RD100**

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See the BIOMET 3i Surgical Manual (INSTSM) for complete and detailed instructions.
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