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Preoperative Navigation Guides

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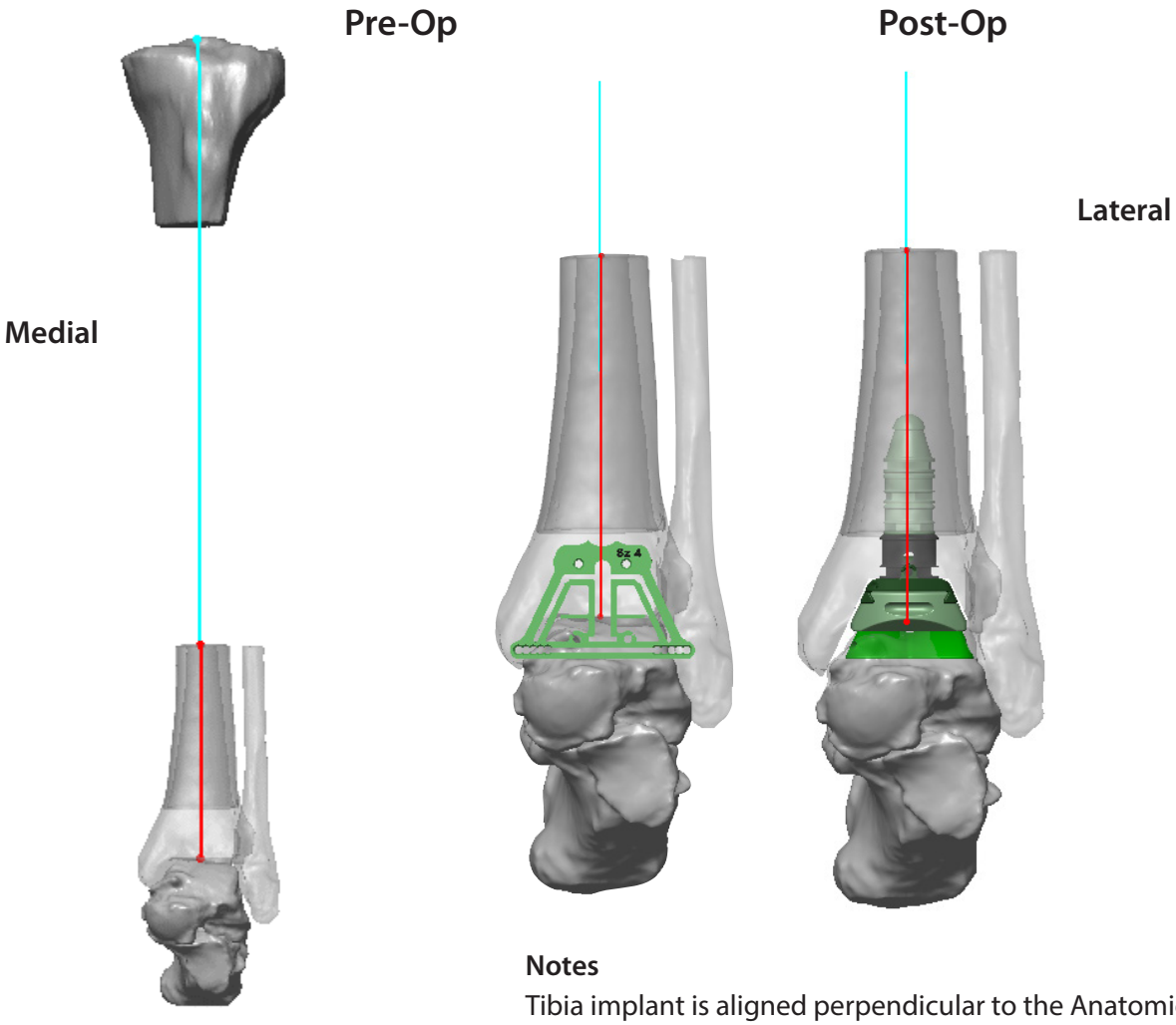
Case#### - Dr. Demo Surgeon
Patient ID - Left - Surgery: MM/DD/2012

INBONE® II Size 4 Tibia & Size 4 Talus

Anterior Views



Tibia Mechanical Axis
Tibia Anatomic Axis

Axis Angles
Anatomic vs. Mechanical

Coronal = .13°

Notes

Tibia implant is aligned perpendicular to the Anatomic Axis
Medial/Lateral placement is set:

- Bisect gutters
- to ensure the stem implants fall within the tibial canal

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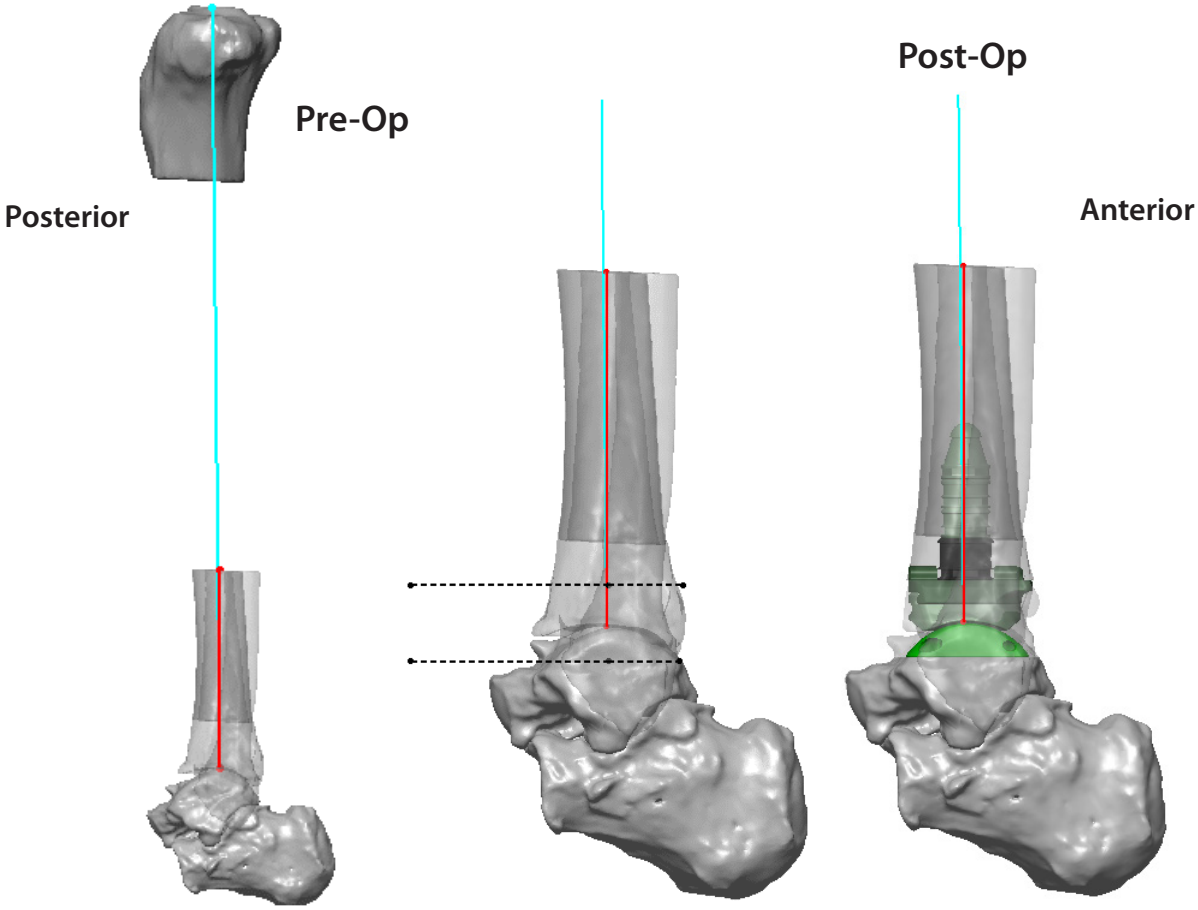
INBONE® II Size 4 Tibia and Size 4 Talus
Sagittal Views from Lateral Side



Tibia Mechanical Axis
Tibia Anatomic Axis
Resection Planes

Axis Angles
Anatomic vs. Mechanical

Sagittal = .49°

Implant Information

Tibia Notes

- Tibial tray is 4
- Top stem is 16mm
- Mid stem is 16mm
- Mid stem is 16mm
- Base stem is 18mm

Talus Notes

- Talar dome is size 4
- Talar stem is 10mm

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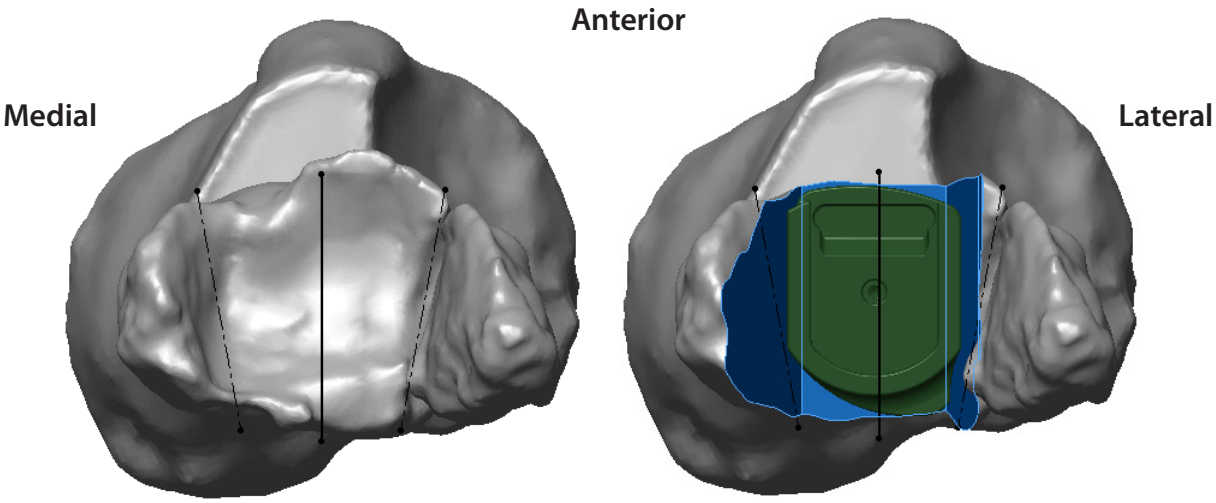
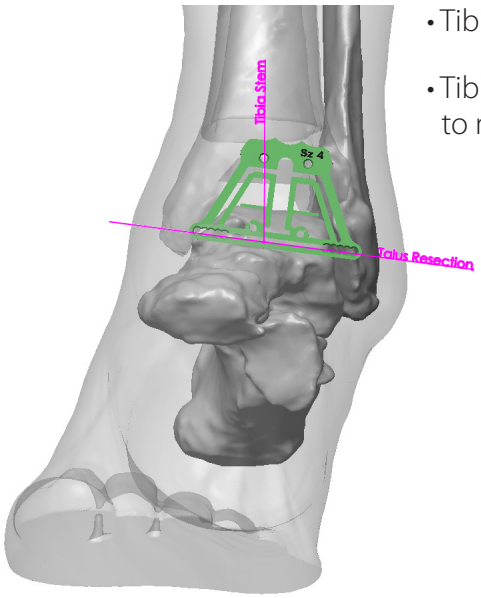
INBONE® II Size 4 Tibia and Size 4 Talus
Tibia Rotation Distal Views



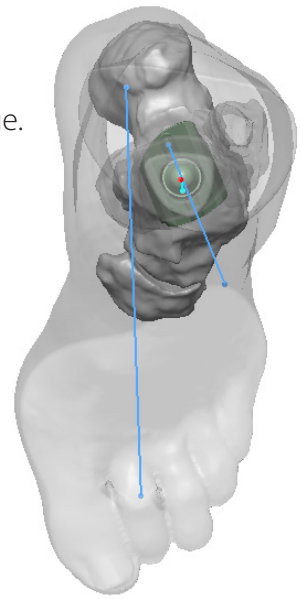
AP Direction: Gutter Bisection

Notes

- Tibia gutter angle: 21°
- Tibia implant is placed to match the anterior edge.



Talus resection planned to result in a 7.1° varus correction



Internal/External orientation is 20° external to the approximate foot orientation

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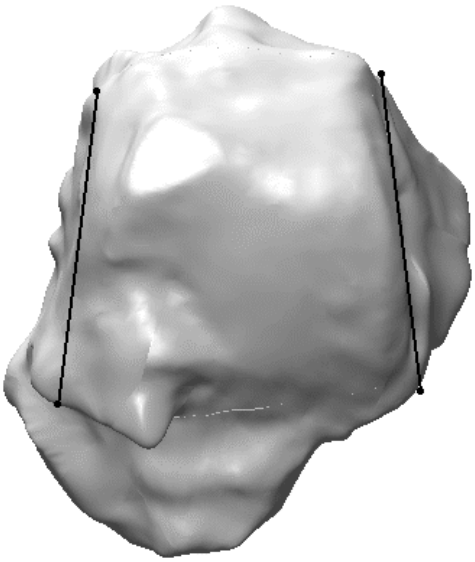
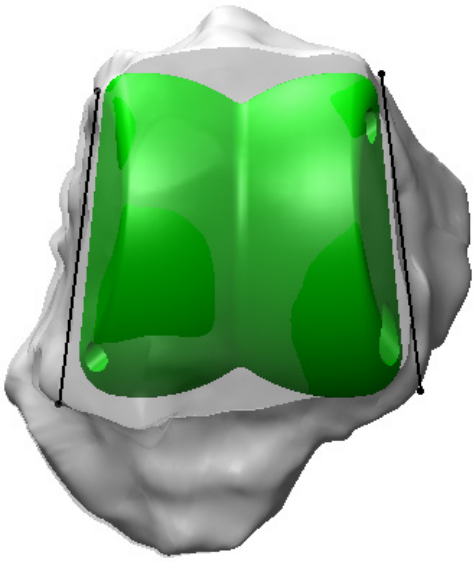
INBONE® II Size 4 Tibia and Size 4 Talus
Talus Rotation Top Views

AP Direction: Gutter Bisection

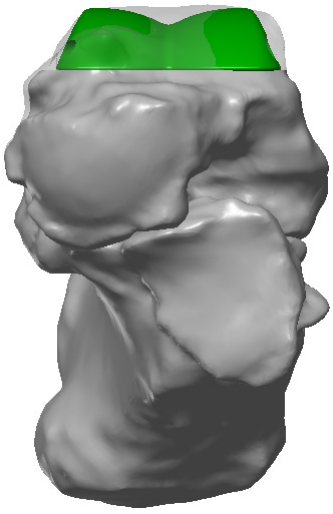
Medial



Lateral

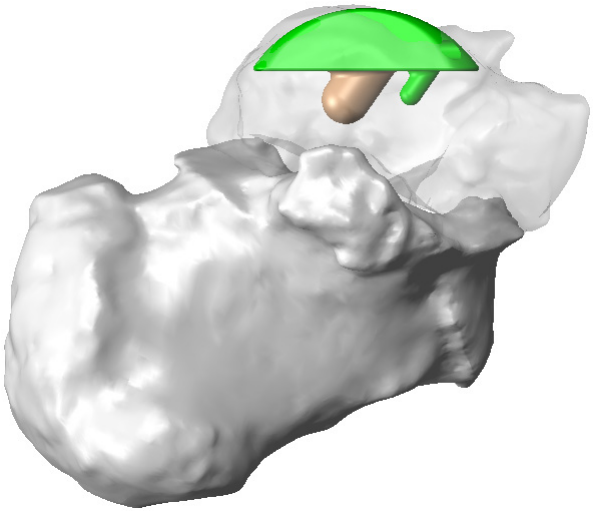


Medial **Lateral**



Anterior View

Posterior **Anterior**



Lateral View

- Size 4 talus implant is selected to maximize bone coverage while minimizing implant overhang
- Talus anterior direction: Gutter bisection
- Gutter angle: 19.3°
- The resection depth is set so Implant matched to natural talar dome and is 4mm proximal to the talar neck.

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Summary

Tibial Alignment Method

- Tibia implant is aligned to the Anatomic Axis.
- Anterior direction is set by the Gutter bisection
- Medial/Lateral implant placement:
  - Bisect gutters
  - The cuts on the medial malleolus and fibula are minimized.
  - ML Tibial coverage
- Anterior/Posterior implant placement:
  - Anterior edge

Talar Alignment Method

- Talus implant flexion is set to match the natural talus.
- Talus implant is selected to maximize bone coverage while minimizing implant overhang.
- Anterior direction is set by Gutter bisection
- The resection depth is set so implant matched to natural talar dome.

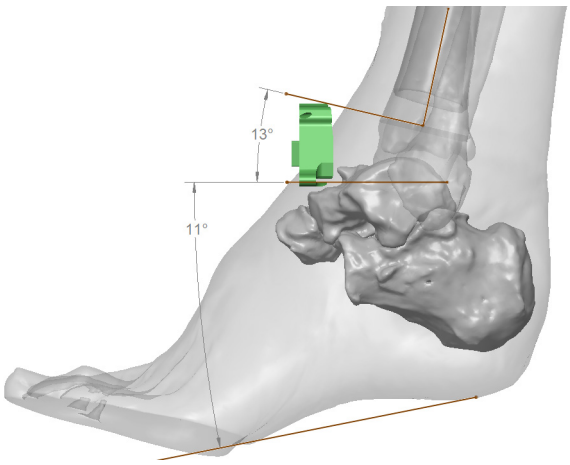
PROPHECY® Engineering Comments

The pre-op CT scan indicates pre-op plantar flexion of 13°

Recommended Implants

- Tibial tray: Sz 4 (200222904)
- Tibial insert: Sz 4 (220224409E)
- Stem Components:
  - Top: 16mm (200011902)
  - Middle: 16mm (200010902)
  - Middle: 16mm (200010902)
  - Base: 18mm (200009902)
- Talar dome: Sz 4 (220220904)
  - Stem: 10mm
- PROPHECY® Part Number: PNA####

The pre-op CT scan indicates pre-op plantar flexion of 13°



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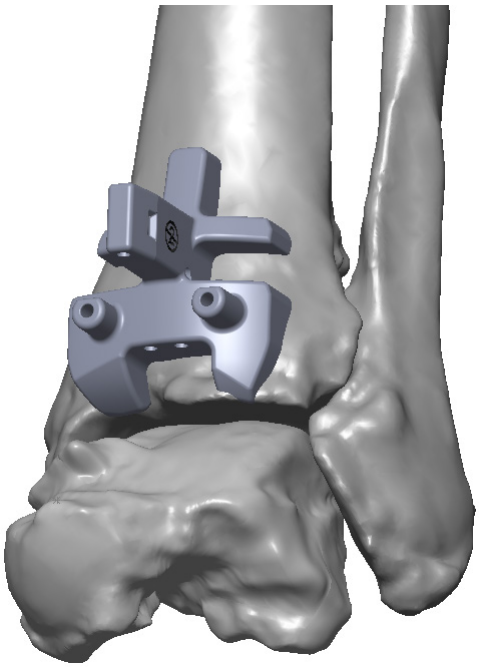
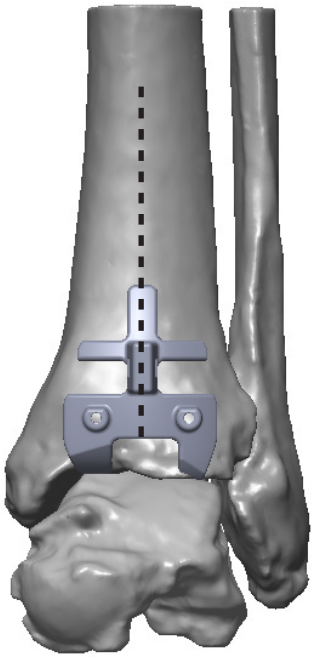
Tibial Alignment Guide

Superior View

Inferior Oblique View

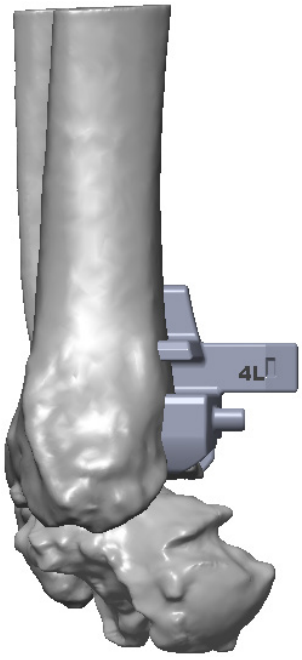


Anterior View



Lateral View

Medial View



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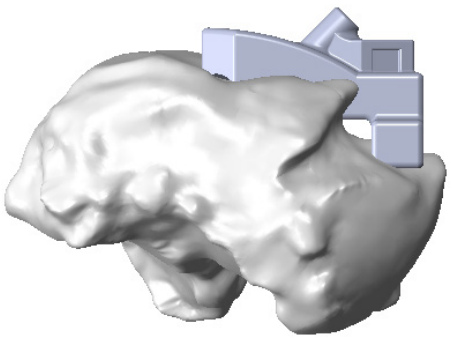
Talar Alignment Guide

Anterior View

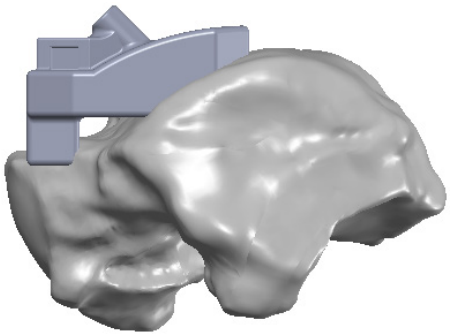
Superior Oblique View

Superior View

Medial View



Lateral View



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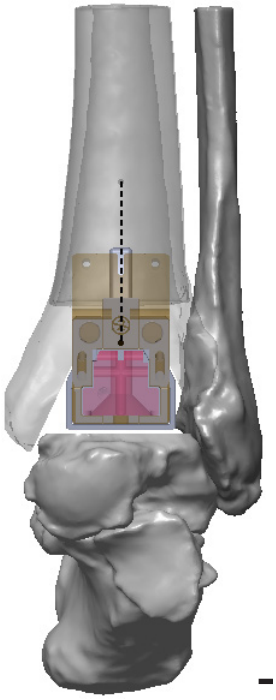
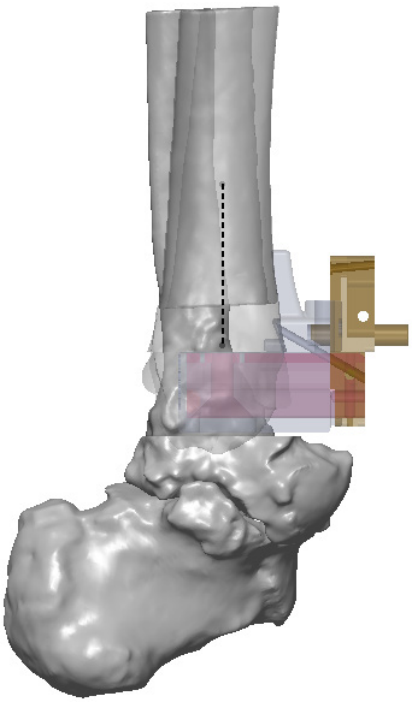
Talar Alignment Guide

Anterior View

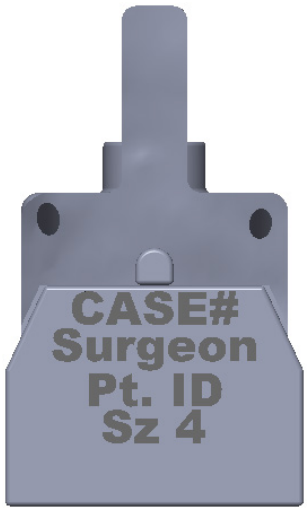


Medial View



Tibia Stem Axis

Medial Oblique View

Lateral Oblique View

Part Identification Posterior View