Disclaimer: MAVEN® Patient-Specific Guides and Surgical Planning Case Reports were designed to effectively expedite alignment and positioning of the APEX 3D™ Total Ankle Replacement System. The contoured guides are based on individual patient anatomic structures, are aligned to the mechanical axis and utilize a CT based coordinate system to aid in implant placement. Adhering to this CT scan protocol is critical.

Preparation

▶ Patient should be in shorts for scan.

▶ No socks or any jewelry—ex: no ankle chains, toe rings, magnets, socks with copper fiber, etc.

▶ All scans for the MAVEN® PSI System are weight-bearing. Patients must be able to stand still for approximately 5 minutes for the entire patient exam.

▶ Bilateral, LFOV (Large Field of View) scan of both knees, shins, and ankles is required.

Procedure Selection & Patient Positioning:

▶ On the Patient Tab, select the **"CT P28 MAVEN TAR Protocol"**

▶ On the Protocol Tab, select the **"CT P28 MAVEN TAR LFOV"**

▶ Bilateral, LFOV positioning of the feet and knees (Figure 1 and Figure 3)

▶ Align Ankle Maleoli ideally along the green line that horizontally cut the blue circle (Figure 2)
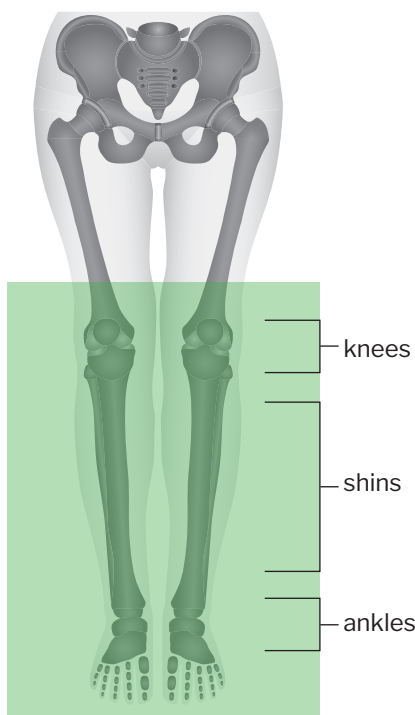
Patient Positioning Images

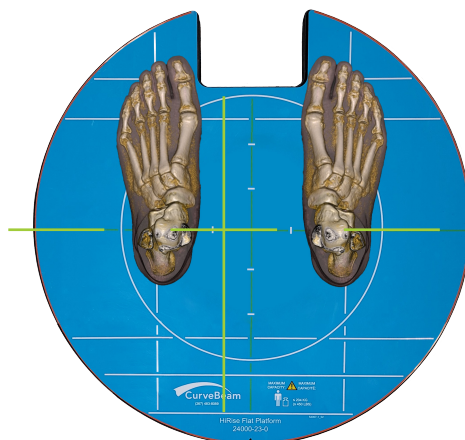Figure 1: Green box represents scanned area of patient

Figure 2: Alignment of feet within the CurveBeam HiRise with ankle maleoli aligned perpendicular to the green line
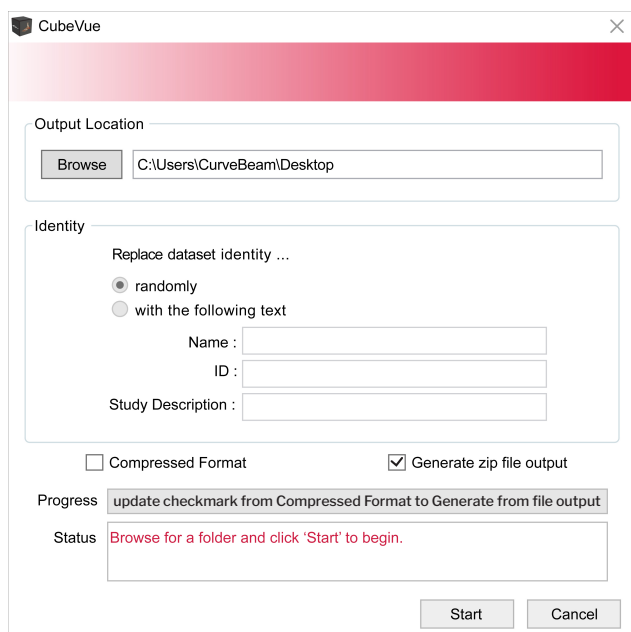

Figure 3: Lateral view of patient with stabilizer

Scan Requirements & DICOM Output:

▶ 5cm proximal from the joint line of the knee through the bottom of foot – must include metatarsals

▶ Scans with patient movement will need to be repeated

▶ **DICOM Output:**

- Send **axial RECON of SV** (Super Volume) from patient tab

- Images should be **0.6mm slice thickness**

- There should be no reformatting, no use of VOI (Volume of Interest) Tool. Original **RECON should be exported**

DICOM Export/Sending:

▶ Locate the RECON study with "SV" at the start of the series description within the patient list tab in CubeVue

▶ Right click on the file and select DICOM export, and the Study Exporter window will open:

- Do NOT edit identity. This will eliminate patient information needed by Paragon 28®

- Deselect the box for "Compressed Format"

- Check the box for **"Generate zip file output"**

- PREFERABLY, Upload through the secure, rapid electronic transfer system: www.apexankle.com

- Burned DICOM CD can be mailed to:

> Attn: MAVEN PSI
> Paragon 28®
> 14445 Grasslands Dr.
> Englewood, CO 80112

Contact for Assistance:
Paragon 28® MAVEN® PSI Support Team
Phone: 720-253-0327
E-mail: MAVENorders@paragon28.com

P10-CTS-0003 Rev A [11/07/23]

CurveBeam AI Technical Support
Phone: 267-483-8081, Option 1 - (USA)
E-mail: techsupport@curvebeam.com