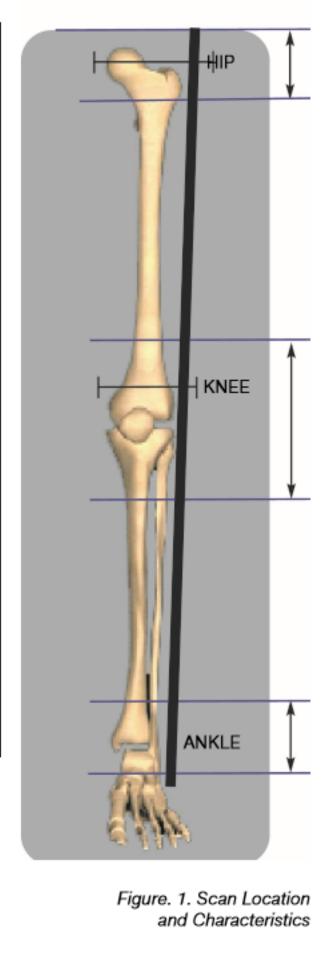


1. KNEE SCAN PARAMETERS

Mako Knee CT Scanning Protocol

Position/Landmark	Supine, Feet First
Topogram (Scout) Direction	Cranio-Caudal. AP and Lateral scout
kVp mA (*if available) Pitch	120-140kV (recommended 120 kVp) Auto Exposure Control* (200-400 mA) 1:1 (no gaps)
Helical Set Slice Thickness, Spacing, Algorithm	Region Thickness Spacing Algorithm Hip 2-5 mm 2-5 mm Bone Knee 0.5-1 mm 0.5-1 mm Bone Ankle 2-5 mm 2-5 mm Bone
Image Resolution Matrix	512 x 512 Matrix: Image must be a square
DFOV	Hip=500 mm, Knee=250 mm, Ankle=500 mm Do not exceed limits.
Scan Plan	Scan in the Axial plane, for all 3 regions (Hip, Knee, and Ankle)
Scan Start/End Locations	Begin scan at the Hip, through the Knee, ending at and including the Ankle joint.
Hip Region	Include the entire femoral head and motion rod. Center around the femoral head.
Knee Region	Scan a region a minimum of 10 cm above and 10 cm below the distal femoral condyles. Include margin above the patellofemoral joint margin below the distal boundary of the tibial tuberosity, and the motion rod. Center around the joint line.
Ankle Region	Include the medial and lateral malleoli and motion rod. Center around the ankle joint.
Images required for transfer	Transfer all Axial bone images of the Hip, Knee, and Ankle including the AP Topogram in DICOM format, to PACS or CD.



2

Mako Knee CT Scanning Protocol

position with a rolled towel or blanket wrapped around the bottom of the foot to secure the ankle as shown. 2. Elevate the knee of the patient slightly with a rolled towel or

as shown in Figure 3.

tight.

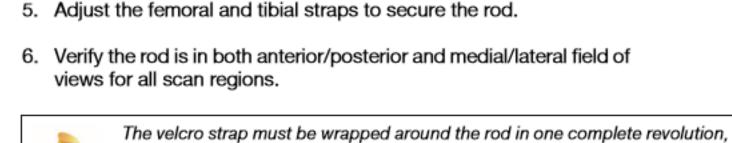
CONSIDERATIONS

POSITIONING THE PATIENT

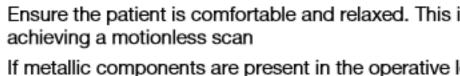


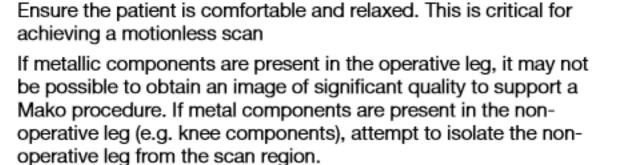
3. Wrap the velcro strap one complete revolution around the rod as shown in Figure 2. Do this for both Velcro straps, one at the hip position and one at the ankle position as shown.

During the scan, the pelvis, leg, and Motion Rod must remain motionless.



Position patient supine, feet first with foot secured in an upright





3

Scan patient anytime before procedure (up to 8 weeks in advance)

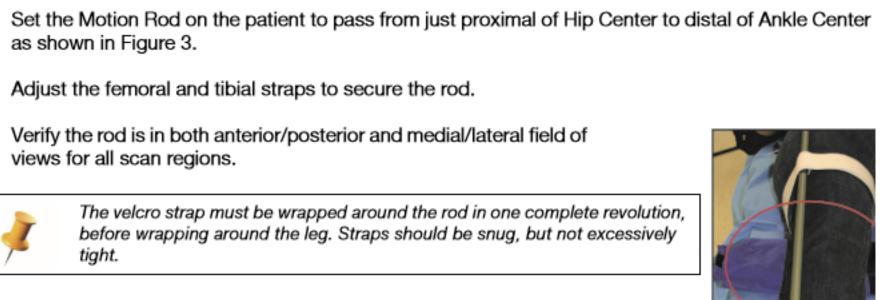


Figure 2.

Figure 3.

4. POST SCAN EXAMINATION The Physician and CT Technologist should verify the following:

Patient's orientation is correct

Mako Knee CT Scanning Protocol

Image Slice thickness and FOV is correct Motion Rod is visible and complete (full circle is present) in all slices Bone images in scan image are not degraded by metal-induced artifacts

Do not include DICOM viewer

DATA SET TRANSFER Archive all acquired images onto single CD in DICOM 3 compatible format

Regions of interest in Figure 1 are visible in dataset

Scan includes complete femoral head, knee joint and ankle joint

A surgeon must always rely on his or her own professional clinical judgment when deciding whether to use a particular product when treating a particular patient. Stryker does not dispense medical advice and recommends

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