

Thank you for taking the time to read this protocol. Good quality images are critical to the successful design of the Ossis™ implant. Your assiduousness of the recommendations made in this protocol will have a significant impact on the accuracy of the final imaging. Please contact Ossis™ on (+64) 3 365 7369 or your local Ossis™ representative with any queries or if you need support when implementing this protocol.

Attention: Images that do not conform to this protocol must be reviewed by Ossis

CT and MRI Requirements:

Scanner type:	Any conventional brand of CT or MRI machine can be used, as appropriate.
Patient position and posture	<ul style="list-style-type: none"> - Patient supine, both legs aligned to simulate positioning when standing. - No un-natural tilt or lift of the pelvis - Arms folded upward away from the pelvis.
Resolution, slice thickness, and slice spacing:	<p>Choose and maintain a fixed value within the range indicated on Page 2 for both in-plane pixel resolution and slice thickness.</p> <ul style="list-style-type: none"> - All slices must be contiguous or overlapping. If slice spacing is limited, slice thickness may be increased to ensure contiguous or overlapping slices. - If using a single slice scanner, please do not reconstruct images to slices that are thinner than the original acquisition. This does not improve the resolution.
Field of view (FOV):	Magnify or zoom the image so the anatomy of interest and any markers fills the entire screen without cutting off any of the anatomy for imaging.
Table Position:	- Gantry tilt 0°
Reconstruction algorithms:	<p>CT: A STANDARD or SOFT TISSUE algorithm, without edge or bone enhancement should be used.</p> <p>MRI: A T1, T1 FS, or PD sequence should be used.</p>
Radiological Marker (oncology only)	A radiological skin marker or similar should be placed over the patient's Anterior Superior Iliac Spine (preferably both spines) or Pubic Symphysis. Ensure the placement is the same for both the CT and MRI scan. This marker will be used later to align both scans.

IMPORTANT: Do not change FOV, table position, or X and Y centering between slices during scanning

X-Ray Requirements:

Scanner type:	Any conventional brand of X-Ray machine can be used.
Patient position and beam position	<ol style="list-style-type: none"> 1. Patient standing with AP hips with the beam horizontal and height level with the centre of the femoral head. 2. The patient then turns 90 degrees with the affected hip away from the "film", feet facing forward, and a direct lateral of the hips is taken with the Iliac crests on top. Take image at 180cm FFD. <p>- If the patient cannot stand upright comfortably, guide the patient to bend his/her knees until the back is flat and the patient can stand comfortably then repeat X-Ray 2 with beam centered on the femoral head.</p>
Calibration Marker	Tape one marker on the anterior skin surface of the affected hip and one marker on the posterior skin surface at the level of the greater trochanter.

	AceOs (Acetabulum)	Other Custom*	Custom Knee	Custom Feet/Ankle	Custom Oncology
CT Scan	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
MRI	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
AP Standing X-ray (Supine if standing not feasible)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Lateral Standing X-ray (Supine if standing not feasible)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

PHYSICAL ADDRESS:

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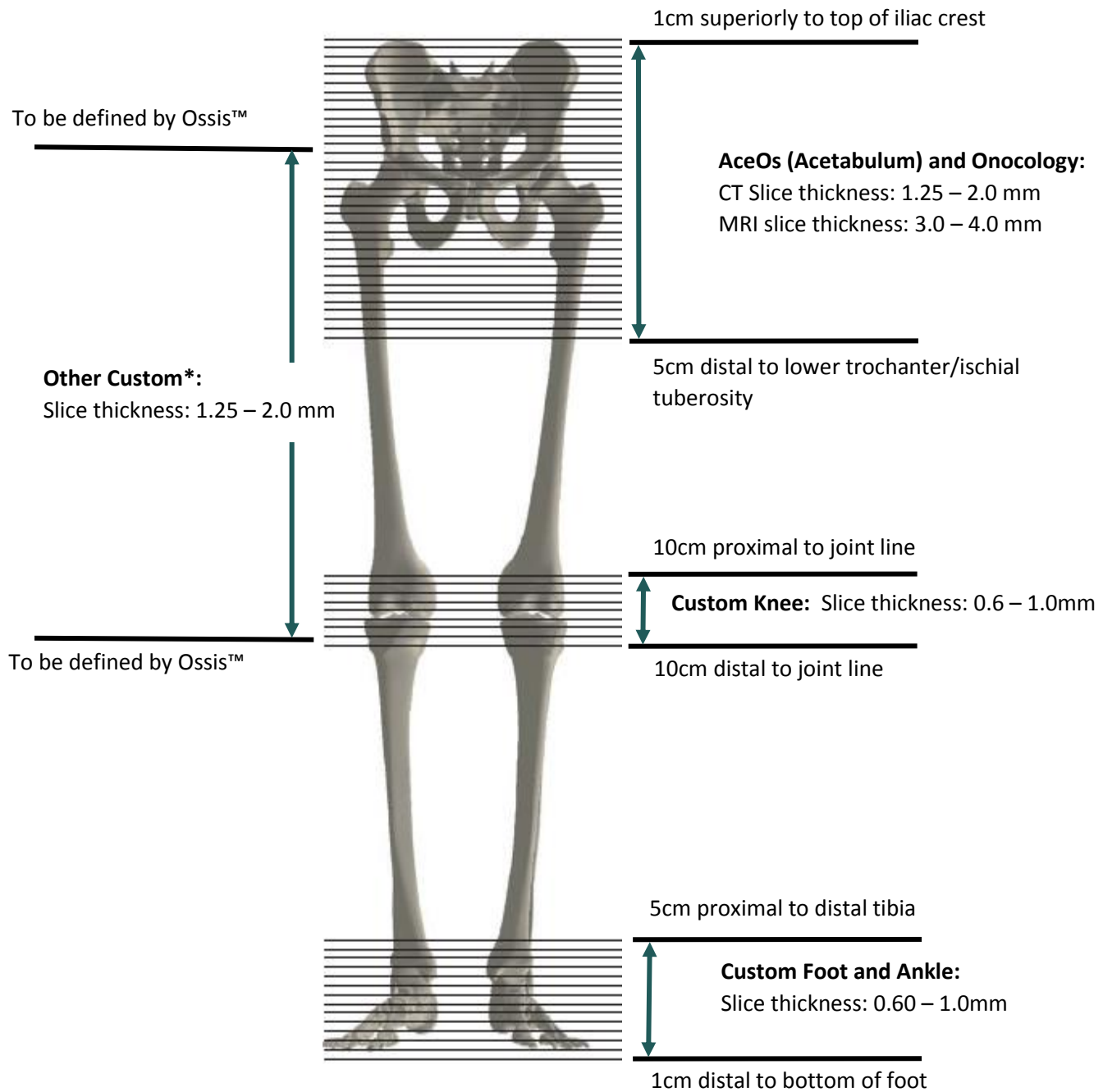
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CT Protocol and Slice Thickness:



*Please contact Ossis™ for advice when imaging for this implant category

File Transfer:

Transfer scan data to OSSIS™:	NZ:	Patient scan data can be transferred from your PACS system to CDHB PACS system. After transferring scan data, notify Ossis™.
	AU:	Patient DICOM can be securely transferred from your PACS system using the Ossis™ share code: http://Ossis™.dicomgrid.com/share/Ossis™ .
	CD/DVD:	DVD or CD-ROM couriered to Ossis™' physical address if PACS or share link options are not available

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