IMAGING GUIDE X-RAY

bodycad

Introduction and Purpose

Through its mission, The Pursuit of Orthopaedic Perfection™, Bodycad aims to bring to market personalized restorations designed from a virtual 3D model of the patient's anatomy.

Radiographs of the patient are used to have a perfect understanding of patient's situation and improve the quality of the planning.

The procedure described in this document may differ from the procedure used for diagnostic purposes. The physician is responsible for determining whether further tests are required for diagnostic purposes.

It is important to closely follow this guide, as this will produce a more accurate planning, and enhance the precision of the personalized restoration. Deviations from this guide may result in an unusable X-Ray, and potentially delay the surgery.

Please contact image@bodycad.com if you require more information.

IMG-PB009-07-V04_EN_X-ray, Laboratoires Bodycad Inc./ Bodycad Laboratories Inc.
2035 rue du Haut-Bord, Québec (QC) G1N 4R7 Canada 1.418.527.1388

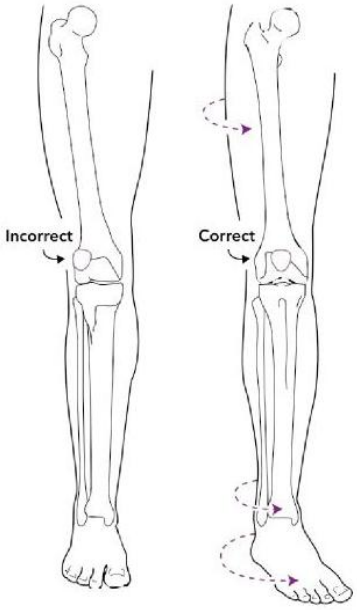
AP Long Standing X-Ray

Parameters

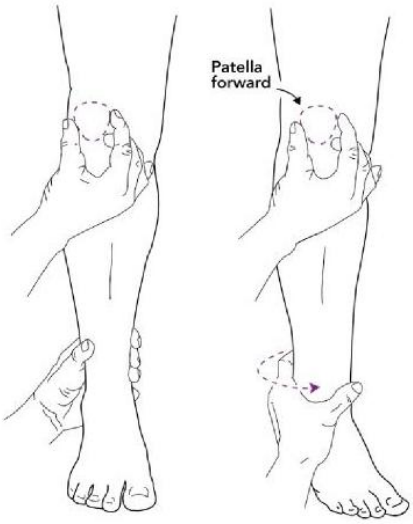
Patient position /parameters	• No shoes • Patient is standing, weight-bearing position, patient's weight should be evenly distributed between the legs, legs should be as parallel as possible, without rotation, arms are folded upward to the head. • Knees in full extension, without rotation, malrotation must be avoided by aligning the patellae to the front, centered between the femoral condyles • Non-fixed metallic objects worn by the patient must be removed • marker indicating the left or right side of the patient
Image quality	• Patient must not move at any time during the scan • No Blur will be accepted; bone contours need to be well defined • Use enough density to show the superimposed bones, and to obtain well-defined cortical outlines
Format and coverage	• Dicom format, already stitched images of full leg without any blur • X-ray include at least the anterior inferior iliac spine to the talus (full-length). • Providing both leg is ideal but not mandatory, the leg laterality subject to surgery can be provided alone • Patient's name, DOB and ID must be kept transmitted

FOV after Stiching:

Compliant AP Long standing X-ray



Incorrect↑



Correct↑

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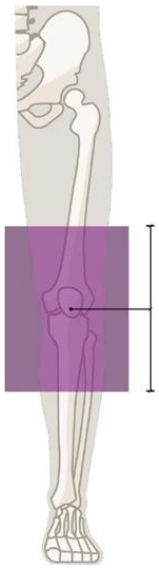
Lateral 30°flexion – Knee X-Ray

Optional, mandatory only for Fine TTO product

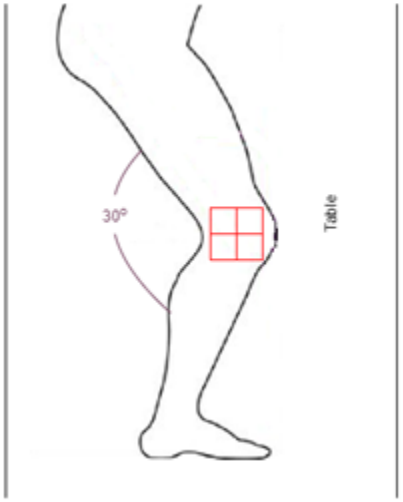
Parameters

Patient position /parameters	• Patient in a lay on the side of the knee to image • Patient lib must be flat on the table • Knees should be flexed at 30 degrees • X-ray points the knee joint perpendicular to the table • X-ray must be centered on the knee joint • Non-fixed metallic objects worn by the patient must be removed • marker indicating the left or right side of the patient
Image quality	• Patient must not move at any time during the scan • No Blur will be accepted; bone contours need to be well defined • Use enough density to show the superimposed bones, and to obtain well-defined cortical outlines
Format and coverage	• Dicom format • Minimum of 10cm of femur and 10cm of tibia • Patient's name, DOB and ID must be kept transmitted

Min.10cm of femur and 10cm of tibia:



Compliant Lateral X-Ray 30° flexion



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Transmission of Images

– Provide the complete data set of raw/original DICOM images to the surgeon.

– **Lossy compression is NOT allowed** (ISO_10918_1, ISO_14495_1, ISO_15444_1 or ISO_13818_1).

– Do not send any 3D recons, reformats, viewer software, etc.

– **Important**: Retain a permanent archive (via PACS) copy of the RAW imaging data (as scanned by the original parameters and in the uncompressed format).

Data anonymization and privacy

– Be sure that the required rights for transmitting data to Bodycad are respected.

– The patient's name and ID must be kept in the transmitted data.

– Upon receipt of the transmitted data, Bodycad will ascertain the correspondence between the images and the surgeon's prescription, and anonymize the data before the whole process of personalized restoration begins.

– Confidentiality of patient data is part of Bodycad's quality procedure and patient privacy guidelines.

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