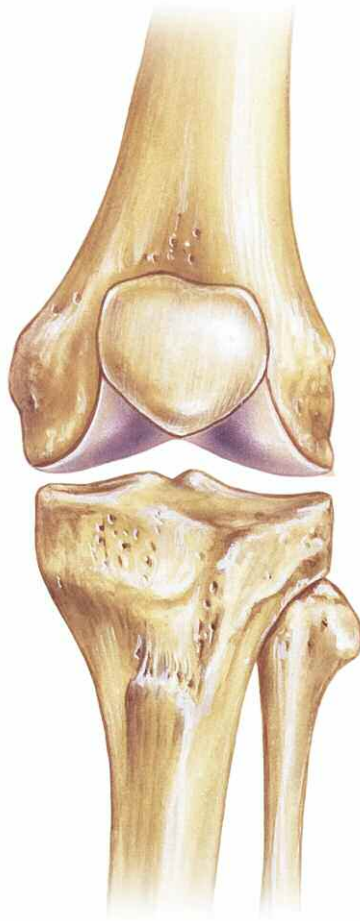


Complete
Planning
Solution
for Knee
Procedures



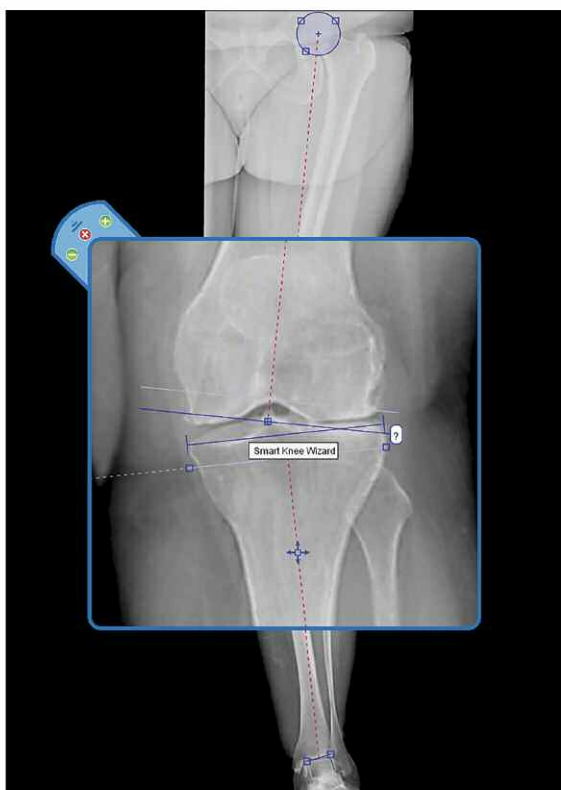
High Tibial Osteotomy

Total Knee Arthroplasty

Complex Primary Knee

Total Knee Revision

Partial Knee



High Tibial Osteotomy
Total Knee Arthroplasty
Complex Primary Knee
Total Knee Revision
Partial Knee

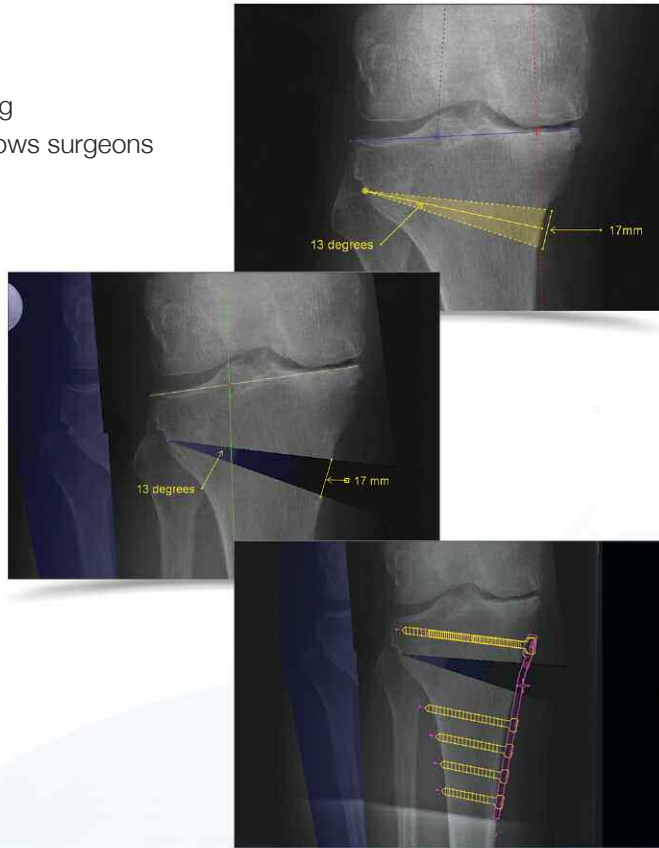
Quick and Easy Planning for Knee Procedures:

- Plan with long leg or short knee images:
up to 4 related images at a time
- Move seamlessly from whole leg to
zoomed view for more precise template
positioning
- Assess the need for an offset stem using a
unique graphic for revision knees
- Modular systems for revision knees are
templated as a complete, connected unit
- Planning for HTO with assessment of
whole leg alignment

High Tibial Osteotomy Planning

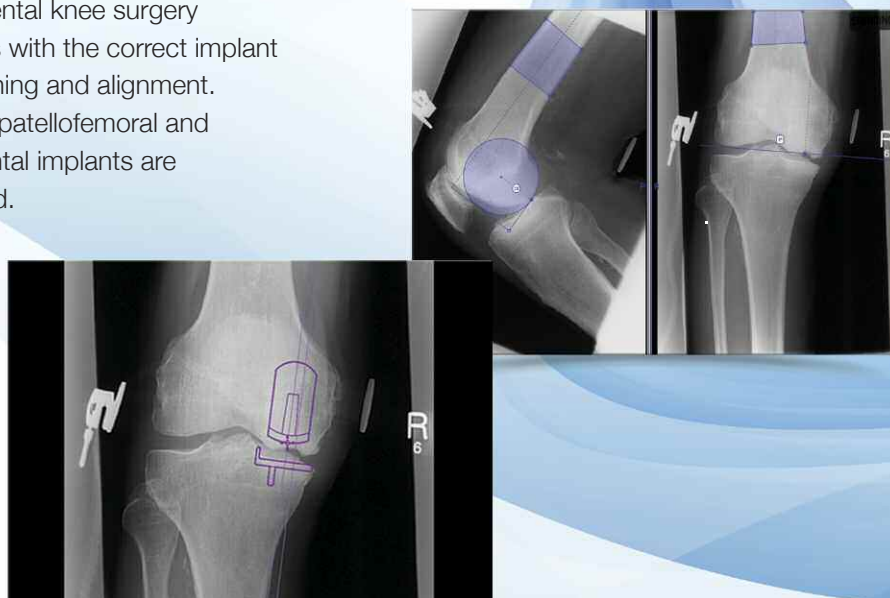
The High Tibial Osteotomy planning wizard in Materialise OrthoView allows surgeons to assess the whole leg alignment and identify:

- The initial deformity
- Cut angle and width automatically
- Simulated post-osteotomy limb alignment
- Size of plate required



Partial Knee Replacement

A special automated assistant for unicompartmental knee surgery planning helps with the correct implant sizing, positioning and alignment. Templates for patellofemoral and bicompartamental implants are also supported.



Planning for Complex Primary Knee Replacements

Surgeons worldwide use Materialise OrthoView to anticipate potential complications that can arise during surgery. Solutions can be formulated and communicated to the orthopaedic team in advance, for example:

- Is it tibial or femoral bone loss causing the misalignment?
- How will the arthroplasty affect leg alignment?
- Are wedges and stems required to promote a stable arthroplasty?

SmartKnee™

SmartKnee is a set of tools and wizards dedicated to knee arthroplasty planning with the minimum of mouse clicks, including automated anatomy detection, template placement and reduction. It is especially useful in assessing alignment for complex primary knees and total knee revisions.

Smart Templates

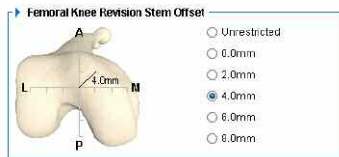
Materialise OrthoView digital prosthesis templates are grouped according to size and other characteristics into logical families for ease of selection. Comparing alternative template choices is easy as each new template appears on the screen in the same position. Materialise OrthoView's Smart Templates permit only viable, real-world component matches and adjustments in one image are replicated in all projections.

The Materialise OrthoView online template library provides an extensive range of template groups for total knee replacement, partial and revision knee procedures, from all the major and many smaller manufacturers. Materialise OrthoView Smart Templates for TKR procedures allow easy positioning of stems, offset and rotation.



Templating Total Knee Revisions

Materialise OrthoView's unique revision knee templates are shown on screen as complete connected systems. The primary component plus any stems or offsets used with it all move together. As the primary component alignment is adjusted, the effect on stem positioning and need for an offset can be seen and assessed.



When an offset stem is added, a unique polar display allows the user to visualize its required orientation.



SmartZoom™

SmartZoom incorporates two elements designed to make assessment of the anatomy, positioning templates and identifying specific measurements even easier and quicker.

Blue Lens provides an instant, precision close-up of the area of interest, which can be adjusted for magnification and moved around the screen as required.



MiniView can be activated at any stage of the planning process. It is useful as a reference when zooming into a specific section of the main image.

Visit our website for more information:

www.OrthoView.com

Materialise OrthoView

At a Glance: The Benefits of Materialise OrthoView for Planning Knee Procedures

“Being able to predict the component sizes and likely augments allows the scrub staff to organise the complex instrumentation, jigs and trials used for revision knee surgery. They can often put half of the trays to one side which streamlines the whole procedure and is particularly helpful for staff under training.”

Grant Shaw, Orthopaedic Surgeon

One-click image scaling

Instantly corrects for image magnification when sizing templates and calculating measurements.

Intuitive, automated assistants and specialist tools

Quick and easy planning on screen, with minimal mouse clicks; improve planning for TKAs, TKRs, partial knee procedures and HTOs with the dedicated tools and wizards provided in Materialise OrthoView.

SmartHelp

A click-on-click-off integral panel providing a tracking contextual guide, index and links to reminders and tips for each step of the planning process.

Comprehensive digital template library

Includes high quality, intuitive, multipart knee templates that lock together to move as one. Materialise OrthoView's Smart Templates are designed to permit only viable, real-world component matches.

Save plan to PACS, print or save locally

The result of the Materialise OrthoView planning session is a comprehensive plan and report that can be saved to PACS and retrieved for reworking or for reference during surgery. Local saving or printing of the plan are also supported.



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