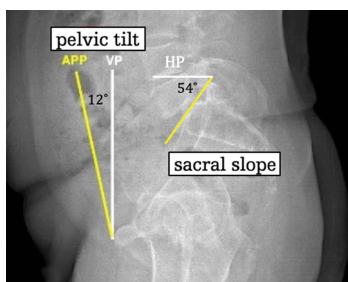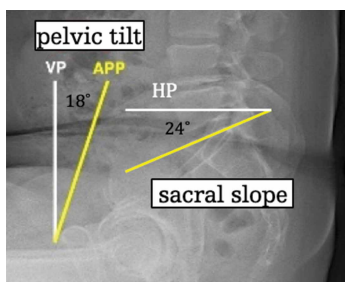**stryker**

Mako Total Hip
SmartRobotics™

▸ Know more
with Mako Total Hip 4.0 CT-based planning features

Pelvic tilt

This feature allows the user to plan the placement of the cup based on the patient's pelvic tilt or sacral slope angles for supine, stand and sit poses.
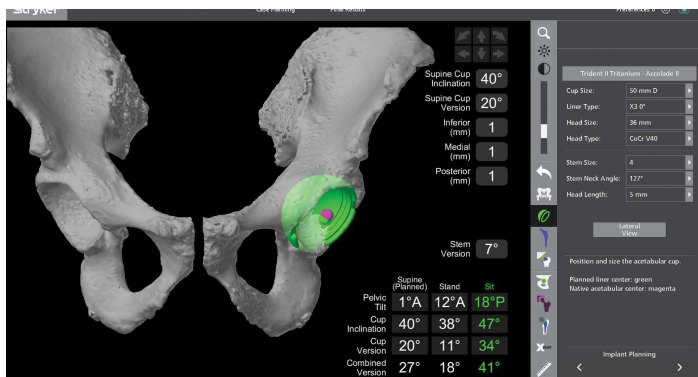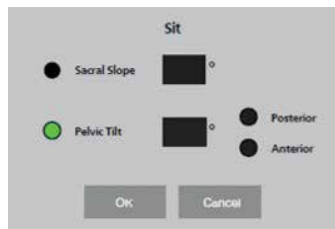

Lateral standing X-ray	Lateral seated X-ray

Surgeons will measure pelvic tilt and/or sacral slope values from standing and sitting lateral X-rays.

- When the user inputs a pelvic tilt or sacral slope value for the sit and stand poses, the cup inclination, cup version and combined version values will be calculated automatically for those poses.


The application allows the user to modify the cup inclination and cup version values for supine, stand and sit poses.

Virtual range of motion (VROM)

This feature allows the user to visualize the femur-to-pelvis and component relationship in different patient positions (standing/sitting) to assess impingement.
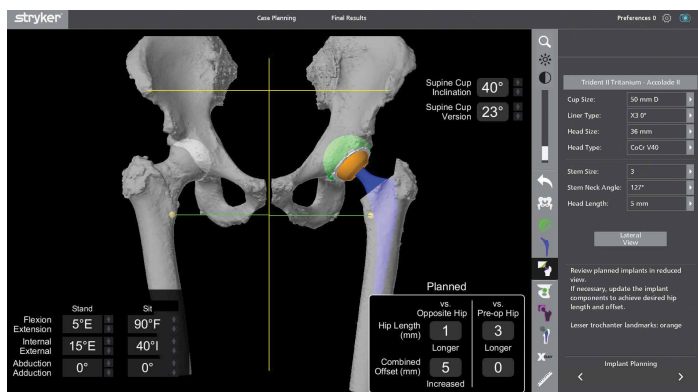
When the user changes the range-of-motion values for the operative femur and there is overlap, or intersection, between the bone models and/or implant systems, the visual representation will be highlighted in red.
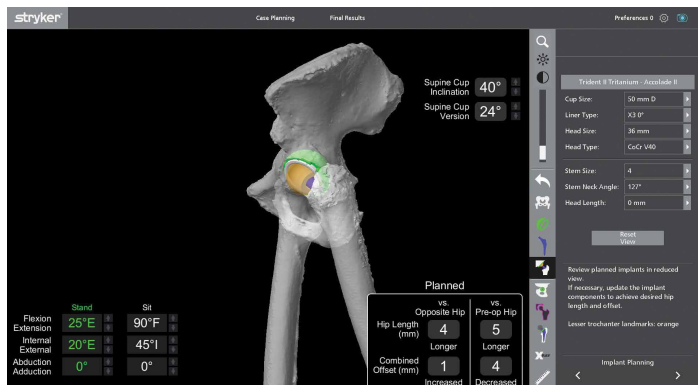
The user can modify implant position and/or implant systems to address the potential impingement.

Application updates that can cause impingement location to be visible include:

- Change in orientation, size or type of implant components
- Switching between functional poses
- Updating ROM values for operative femoral model

Digital ruler

The digital ruler can be used to plan and execute the neck resection.

Neck resection guidance

- The user will be instructed to select points on the patient's bone model for neck resection guidance. These planned measurements will carry over to the intraoperative neck resection guide page for an express workflow.
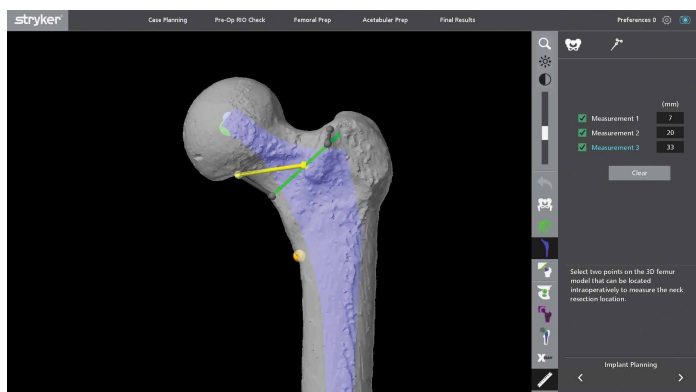

Neck resection view

This feature provides the surgeon with a view of the planned stem in a position corresponding to what is seen intraoperatively, allowing the potential for:

- Enhanced placement and orientation of the box chisel and initial broach.
- Better assessment of the placed component for an express workflow.
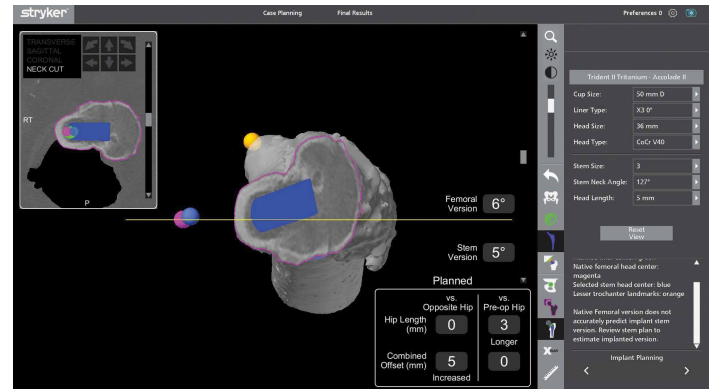
M/L axis realignment

This feature allows for the selection of an alternative reference closer to the joint line to define a new M/L axis (can be used when ASIS landmarks are not a good representation of the M/L axis).
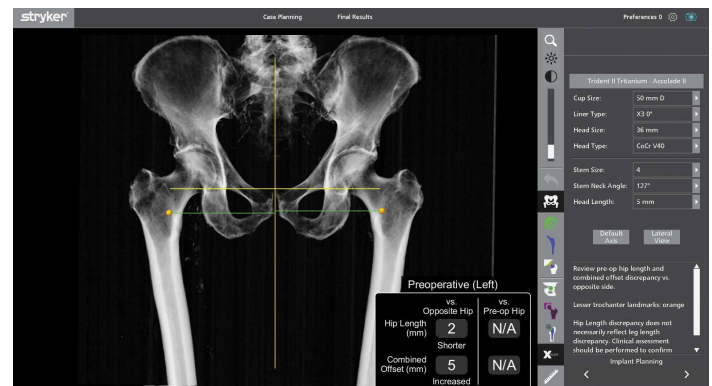
Patient preoperative hip length, combined offset and cup inclination values will update based on the new axis.

That's Mako Total Hip. That's SmartRobotics™