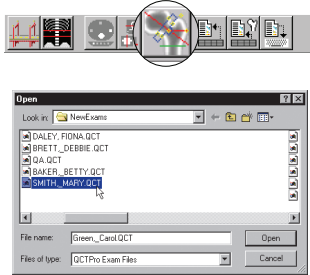


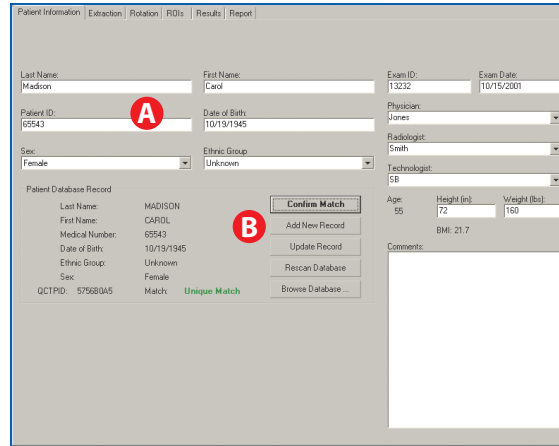
1 Open

- Open the Hip module, then open the examination.



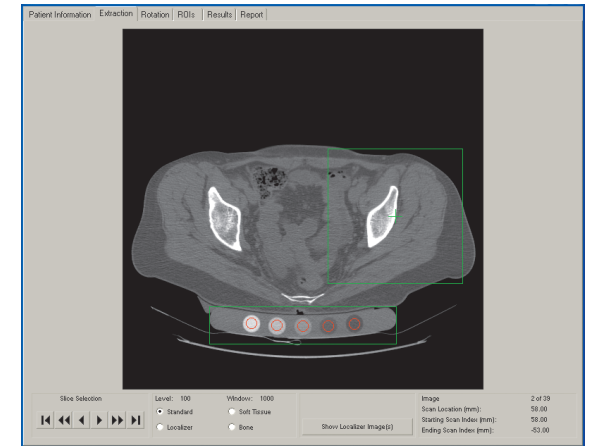
2 Patient Info

- A** Review, add, or modify the patient information as required.
- Last Name, First Name, Date of Birth, Sex and Patient ID are required. Other fields are optional.
- B** For new patients click on "Add New Record."
- For patients already in the database from a previous analysis, click on "Confirm Match" if the displayed Patient Database Record is correct. Otherwise rescan or browse the database as necessary, click on "Update Record" if necessary, then click on "Confirm Match."
- Click on the "Extraction" tab to go to the next step.



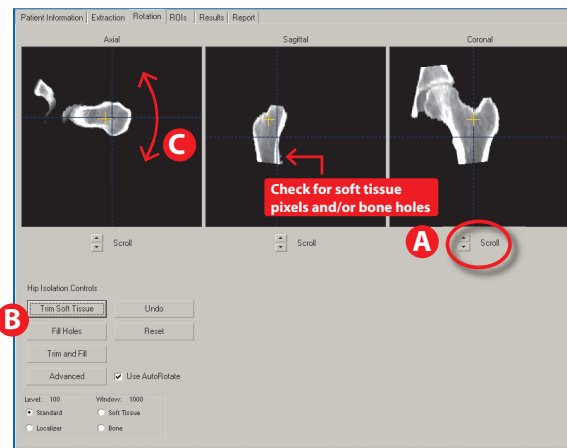
3 Extraction

- Extraction is automatic. Inspect the box locations. If a box is unsatisfactory, make the necessary adjustments.
- To reposition a box** Move the cursor inside the box, depress the left mouse button and drag.
- To resize the phantom box** Move the cursor inside the box, press the right mouse button and drag.
- Click on the "Rotation" tab to go to the next step.



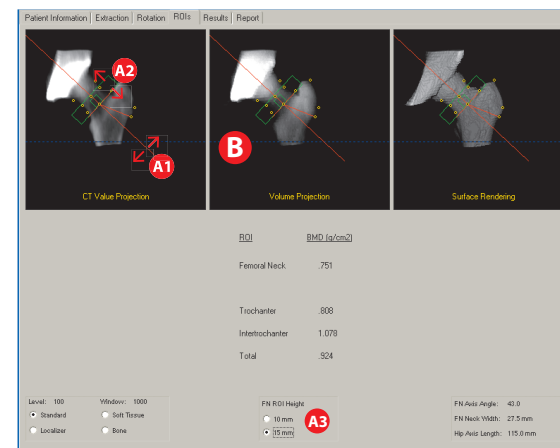
4 Rotation

- Hip isolation and rotation are automated.
- A** Inspect the images for soft tissue pixels and/or holes by scrolling forward and backward.
- B** If any are found, eliminate them with the Hip Segmentation Controls.
- C** Inspect the rotation of the femur and adjust if necessary.
- To rotate, click on an image with the left mouse button and drag clockwise or counterclockwise.
- Click on the "ROIs" tab to move to the next step.



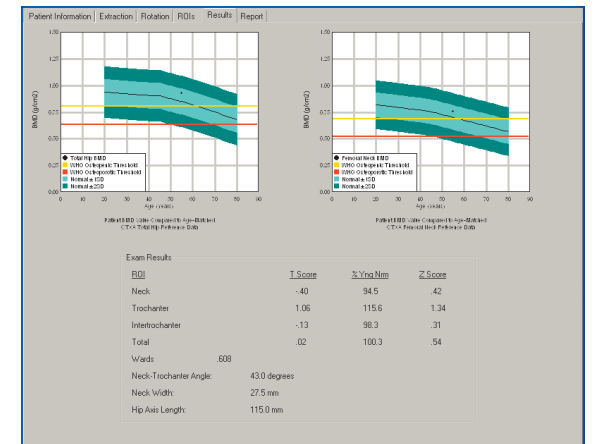
5 ROIs

- ROIs are automated. Inspect and adjust the ROIs if needed.
- A1** Rotate the femoral neck axis.
- A2** Reposition the femoral neck box.
- A3** Decrease the height of the femoral neck box. Readjust the box position.
- B** Adjust the intertrochanteric distal extent line if needed.
- Click on the "Results" tab to go to the next step.



6 Results

- The results screen is a view-only screen.
- Click on the "Report" tab to go to the last screen.

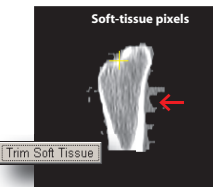


Isolation

If soft tissue pixels remain or bone holes are visible, use the isolation controls to eliminate them.

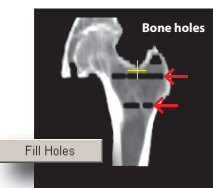
Eliminate soft-tissue pixels

- Click on "Trim Soft Tissue".
- Repeat as needed.



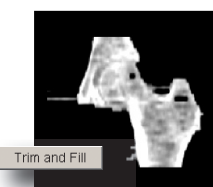
Eliminate bone holes

- Click on "Fill Holes" to fill bone holes.
- Holes in the femoral head are acceptable.
- Repeat as needed.



Eliminate soft-tissue pixels and bone holes simultaneously

- Click on "Trim and Fill."
- Bone holes will typically fill first, leaving soft tissue pixels to eliminate with the "Trim Soft Tissue" button.
- Repeat as needed.



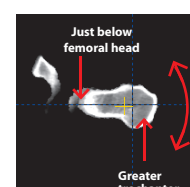
Rotation

Inspect the images to ensure an orientation is attained with characteristics as illustrated below. Make needed adjustments using the rotation controls.

Axial

The femoral neck should be horizontal.

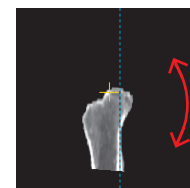
Scroll to a level at the distal end of the femoral head. The neck should be horizontal. If rotation is needed, click on the image with the left mouse button and drag clockwise or counterclockwise.



Sagittal

The femoral shaft should be vertical.

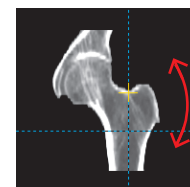
A reference line should align with the anterior cortical shaft.



Coronal

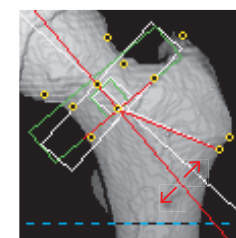
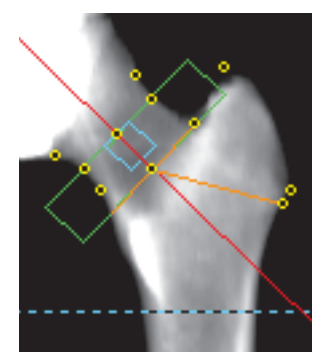
The image should look similar to a hip x-ray or DXA scan.

A vertical reference line through the neck-trochanter junction should pass through the center of the distal shaft.

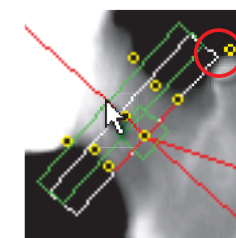


ROI Adjustment Tools

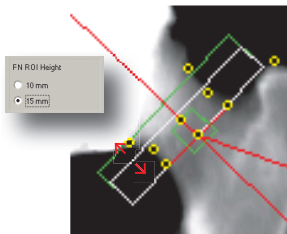
ROIs



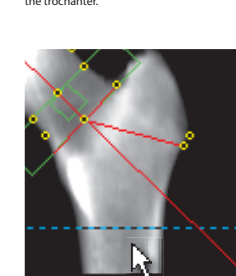
A1 Femoral neck axis
Should bisect the femoral head and neck. Rotate it by clicking on it with the left mouse button and dragging.



A2 User-defined femoral neck ROI box
The femoral neck ROI box can be dragged with the mouse along the femoral neck axis. It should be positioned low on the femoral neck near the wing of the trochanter with the upper-right corner of the femoral neck ROI box just touching the upper extent of the trochanter.



A3 Femoral neck ROI height
Use the FN ROI Height options to decrease, as needed, the height of the femoral neck ROI box. Exclude any overlying acetabulum and/or ischial spine from the box. Adjust the femoral neck ROI position after resizing.



B Intertrochanteric distal extent line
Should be at the base of the lesser trochanter. Drag it with the mouse.

7 Report

If desired, information can be included in the report by typing information in the Interpretation field, selecting a pre-defined report from the Template list, or selecting a name from the Interpretation By list.

If desired, information in the drop down Condition and Therapy lists can be included in the exam record.

- A** Click on "Save Exam Record."
- B** Click on "Print Report."

