

Bone Imaging Laboratory

Standard Operating Procedure



Ex Vivo Scan (μ CT 35/vivaCT 40)

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Before the scan day:

1. Register samples for scanning. - see the sample naming convention register samples using the μCT-Samples program - record sample names and numbers on your log sheet	☐
2. Setup a control file . Use the planning document to estimate your scan time and file size.	☐
3. Book the μCT 35 or the vivaCT 40 scanner.	☐

On the scan day:

4. If necessary, turn on the scanner (μCT 35/vivaCT 40) and open the scanning program to start the 20 min warm up.	☐
5. Prepare the sample(s) in the ex vivo holder and place the holder in the scanner. - try to orient your samples consistently in the holder - if multiple samples are placed in the tube, make notes of the order of the samples in the holder	☐
6. Perform a scout view. - if it is the first scan login to the workstation - put in your operator number or name start the scanning program - select the control file - select the sample number - perform a scout view	☐
7. Place a reference line and submit scan (interactive / batch). use the batch mode if you have multiple samples in the holder and for long scans (avoids the possibility of someone accidentally cancelling the scan)	☐
8. Record the measurement number on the log sheet .	☐
9. Repeat steps: - for batch scans (multiple samples in the holder or multiple scan sites of a single sample), select a new sample number and repeat steps 7-8 - for new samples, repeat steps 5-8	☐

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10. Post-scanning procedures.

- disinfect the ex vivo sample holder or wash with dish soap, as appropriate
- close the scanning program
- if performing batch scans, request an email notification when the scans are done
 - in the terminal \$ @com:email
- log out of the workstation

