
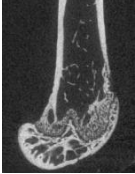
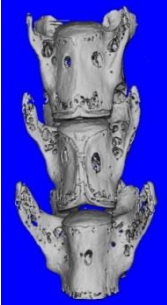
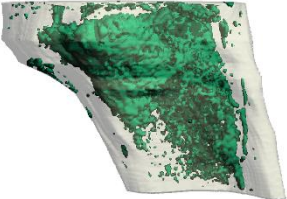


**Center for Skeletal Research
MGH Endocrine Unit**

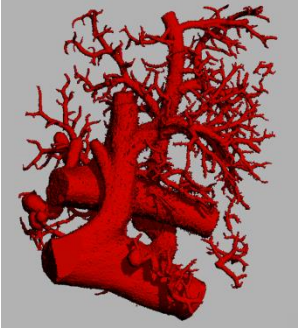
Imaging and Biomechanical Core
 Director: Mary Bouxsein, Ph.D
 Manager: Daniel Brooks, MSc
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Imaging and Biomechanical Core Services, Fees, and Policies

Services:

Service	Description
<p align="center"> Mouse long bone and vertebrae microCT </p>   	<p> Billing: A flat fee is charged per bone (please see fee schedule). The flat fee includes the following: </p> <ul style="list-style-type: none"> - Metaphyseal region scan (10-12 μm resolution) for trabecular evaluation - Mid-diaphysis scan (10-12 μm resolution) for cortical evaluation - Vertebral body scan (10-12μm resolution) for trabecular analysis (some types of cortical analysis are also possible). - Image reconstruction - Standard sample analysis <p> <u>The following will be given to you upon completion of the project:</u> </p> <ul style="list-style-type: none"> - Data will be provided in an Excel spreadsheet - Short report with synopsis of the results of our analysis - Standard images of scanned regions (slice images) - We will provide assistance with writing methods for publications - Upon request we can provide DVDs with DICOMs for your scans (extra fee applies) - Non-standard images will be produced at the hourly consultation rate
<p align="center"> Osmium Tetroxide Staining for measuring Marrow Adiposity in Mouse Long Bones </p> 	<p> Billing: A flat fee is charged per bone (the fee is 4 units of Custom Analysis). The flat fee includes the following: </p> <ul style="list-style-type: none"> - Decalcification and osmium tetroxide staining of bones - μCT scanning and Image reconstruction - Analysis of the quantity of osmium tetroxide staining (marrow adiposity) - Standard cortical and trabecular analysis performed on bones prior to decalcification <p> <u>The following will be given to you upon completion of the project:</u> </p> <ul style="list-style-type: none"> - Data will be provided in an Excel spreadsheet - Short report with synopsis of the results of our analysis - Standard representative slice images of scanned regions - We will provide assistance with writing methods for publications - Upon request we can provide DVDs with DICOMs for your scans (extra fee applies) - Non-standard images will be produced at the hourly consultation rate

Services (cont.):

Service	Description
<p>Consultation and Custom microCT analysis</p> 	<p>Billing: The fee will be based the scan resolution and the number of slices. The hourly consultation rate will be charged for custom analysis (please see fee schedule). Prior to starting your project we will give you an estimate of what the cost will be to scan and analyze each sample.</p> <p><u>Available options include:</u></p> <ul style="list-style-type: none"> - We can give you the data (DICOMs, TIFFs, etc.) and you can analyze it yourself - Generation of images or videos for publications and presentations - Finite element analysis (FEA) for modeling structural properties - Custom quantification of client defined parameters - Consultation on results and study design - Many other options are available!
<p>PIXImus (DEXA) scanning</p>	<p>Billing: Users are charged the hourly PIXImus scanning rate (please see fee schedule) for using the PIXImus machine. Users are required to demonstrate knowledge on the use of the PIXImus machine prior to use. Training is available and is billed at the hourly consultation rate.</p>
<p>Mechanical testing (Performed at BIDMC)</p>	<p>Billing: Mechanical testing machine time and technician time for performing specimen preparation, mechanical testing, and analysis are billed at the hourly consultation and custom analysis rate. Please email us for an cost estimate for your project.</p> <p>Equipment:</p> <ul style="list-style-type: none"> - Bose ElectroForce (Axial-torsional) - Instron 8511 (Axial) - Screw-driven MTS Synergie 100 (Axial) - Biodent (Reference point indentation) <p>Types of testing:</p> <ul style="list-style-type: none"> - Three or four-point bending (Spans from 10mm to 150mm) - Torsional tests (torques from 0.2Nm to 225 Nm) - Tension and compression tests (1N to 22kN) - Reference point indentation - Custom tests

Fee Schedule*:

Service	Internal (MGH)		External	
	P30 Investigator**	Non-P30 Investigator	P30 Investigator**	Non-P30 Investigator
Standard Mouse Bone microCT Analysis [†]	\$43/bone	\$77/bone	\$62/bone	\$111/bone
PIXImus scanning	\$24/hr	\$43/hr	\$35/hr	\$62/hr
Consultation and custom analysis	\$42/hr	\$74/hr	\$60/hr	\$107/hr

*Fees are subject to change. Please visit our website for the most current rates.

** Investigators that are part of the Center for Skeletal Research Core grant (NIH P30 AR066261)

[†]This service includes the standard analysis of mouse long bones (femur or tibia) and vertebrae.

Policies:

Analysis timeframe:

In general we begin projects in the order in which they are received. If you have time sensitive samples or specific deadlines we will do our best to work with you. Once you submit a requisition form, we will give you an estimate of when we will be able to complete your project.

Specimen preparation:

Unless prior arrangements have been made, specimens should be delivered to the core ready for scanning (please refer to the *Preparation of Samples for μ CT Scanning* protocol on the Imaging and Biomechanical Core website). The hourly consultation rate will be charged if it is necessary for our technician to dissect your samples prior to scanning.

Data backup:

After the completion of your project, the data from your scans is backed up to two separate data storage tapes. Additionally, if you would like to secure the data yourself, we can copy your scans to an external hard drive that you provide. The technician time required to copy the data to your external hard drive is billed at the hourly consultation rate.