Resource Summary Report

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MGH High Resolution Peripheral Quantitative Computed Tomography Core Facility

RRID:SCR_009924
Type: Tool

Proper Citation

MGH High Resolution Peripheral Quantitative Computed Tomography Core Facility (RRID:SCR_009924)

Resource Information

URL: http://harvard.eagle-i.net/i/0000013b-3d48-24a1-e81d-064c80000000

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Description: Core facility that provides the following services: 3D Imaging, Normative data comparison, Scan review. The High Resolution Peripheral Quantitative Computed Tomography (HR-pQCT) Core Facility offers measurements of the microscopic internal structure of cortical and trabecular bone in the distal radius and tibia. Additionally, the HR-pQCT Core Facility offers Finite Element Analysis to estimate key biomechanical properties of the bone including failure load and stiffness. By scanning the distal radius and tibia, the HR-pQCT Core can measure a variety of important parameters reflecting the integrity or cortical and trabecular bone. This information cannot be determined using standard clinical imaging techniques such as dual-energy x-ray absorptiometry (DXA). A scanning appointment is a 30 minute addition to a clinical research visit and involves less radiation exposure than traditional bone densitometry. With applications for both cross-sectional and longitudinal research, investigators have employed our facilities and expertise to study a variety of bone-related diseases with participants ranging in age from children to the elderly. The goal of the HR-pQCT Core is to provide facilities and personnel on a per study basis, allowing investigators access to important information about bone structure and function without requiring special expertise and equipment. Getting Started: To begin organizing a cohort for HR-pQCT studies or to inquire further, please contact the Core Director, Dr. Joel Finkelstein.

Resource Type: core facility, access service resource, service resource

Keywords: imaging technique, dual energy x-ray absorptiometry, data analysis, quality control

Funding:

Resource Name: MGH High Resolution Peripheral Quantitative Computed Tomography Core Facility

Resource ID: SCR_009924

Alternate IDs: nlx_156391

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Record Last Update: 20250409T060855+0000

Ratings and Alerts

No rating or validation information has been found for MGH High Resolution Peripheral Quantitative Computed Tomography Core Facility.

No alerts have been found for MGH High Resolution Peripheral Quantitative Computed Tomography Core Facility.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We have not found any literature mentions for this resource.