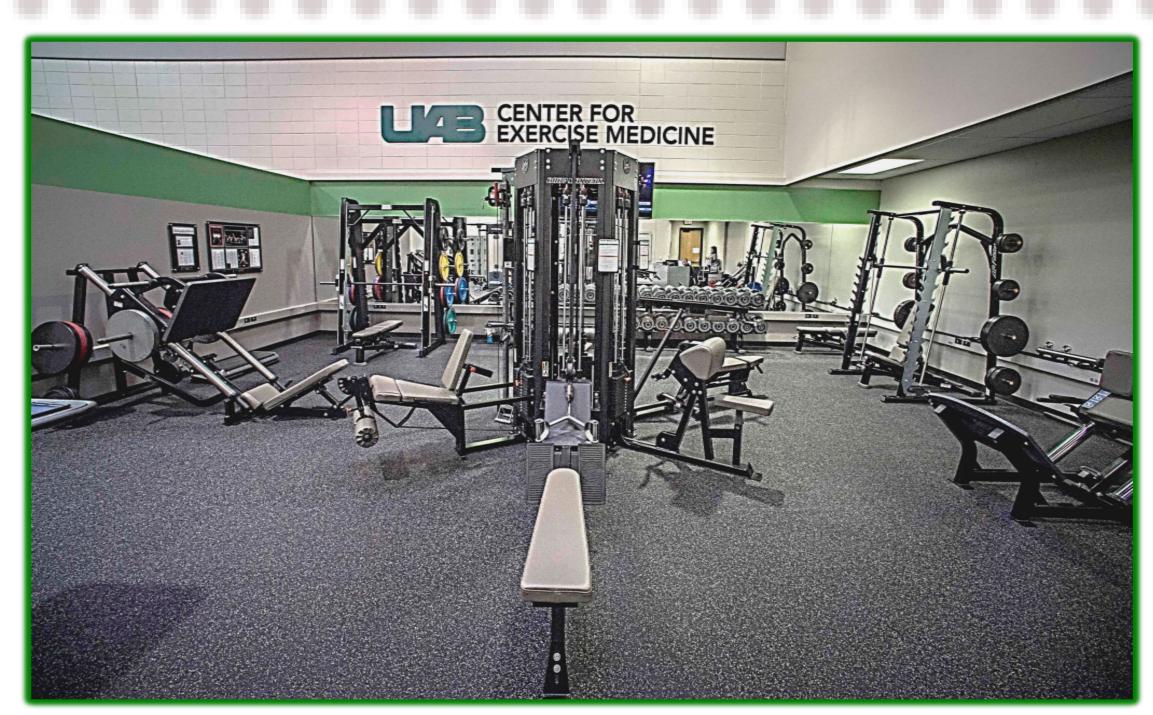
Exercise Clinical Trials Facility (ECTF)

Orthopedic Specialties Building (OSB)

205-934-6221 exercise@uab.edu

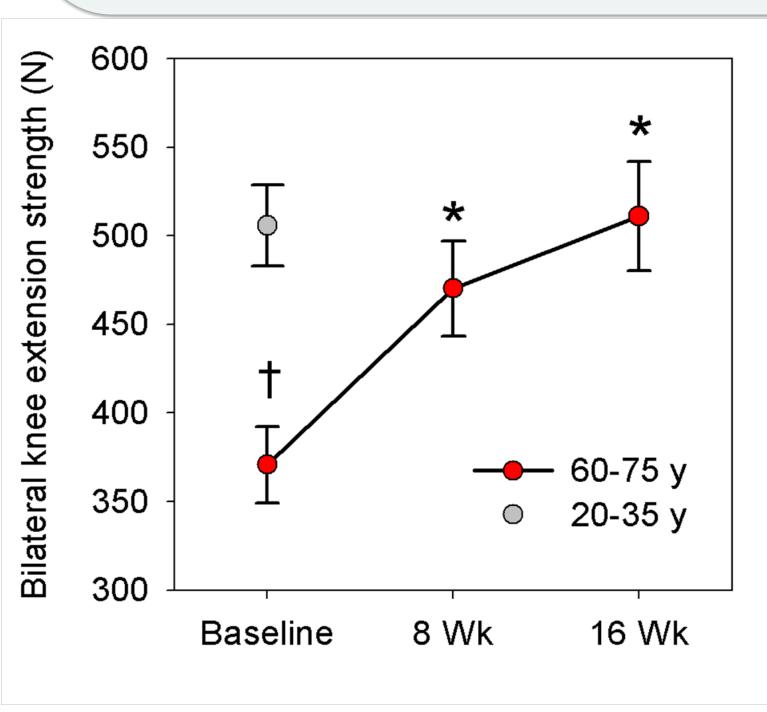
LENTER FOR EXERCISE MEDICINE

EXERCISE CLINICAL TRIALS FACILITY - Marcas Bamman, PhD, Director

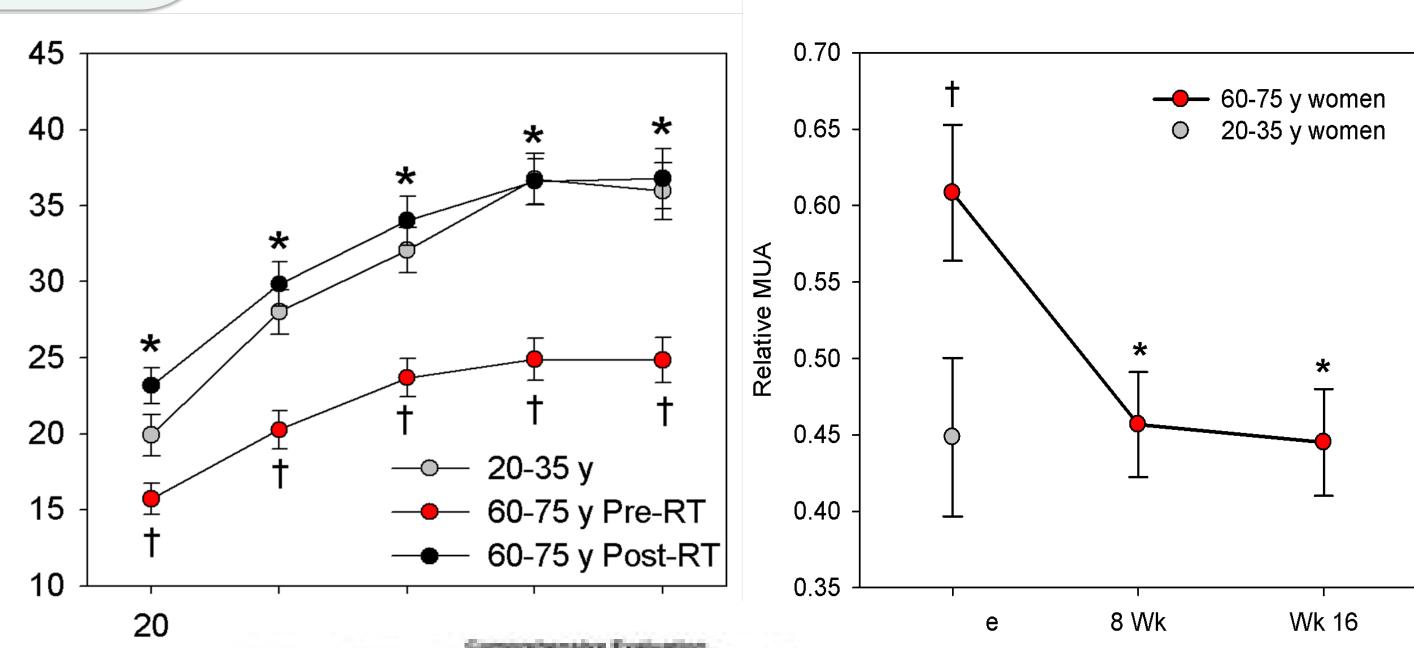


Exercise Training Zone

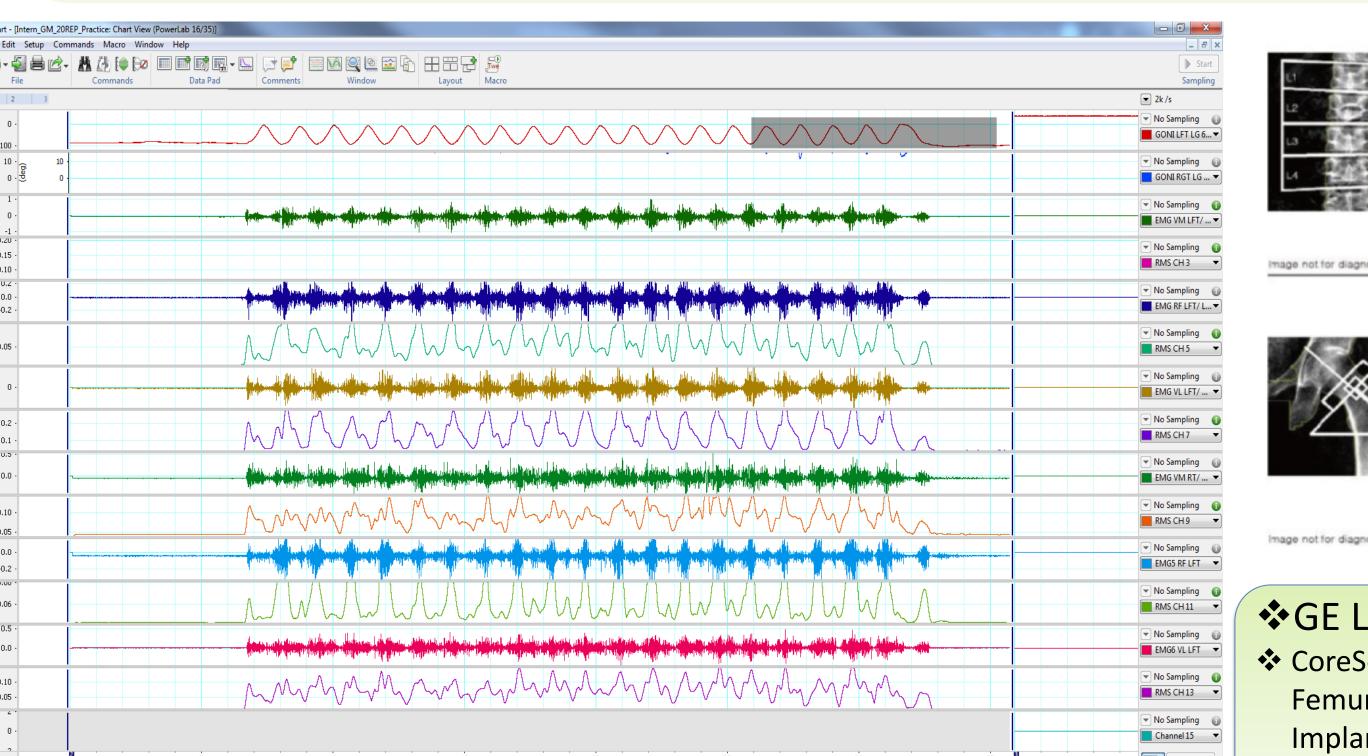
- ❖24 resistance exercise stations
- Olympic barbells, dumbbells, and over 2000 pounds of free weight
- 13 stationary cycle ergometers
- 9 treadmills
- ❖ 3 water rowers
- 1 NuStep

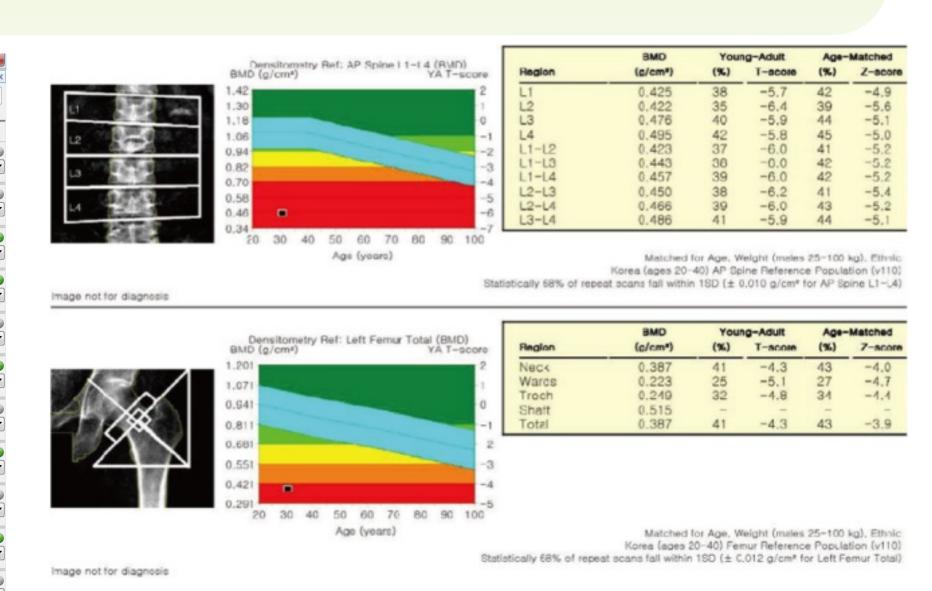


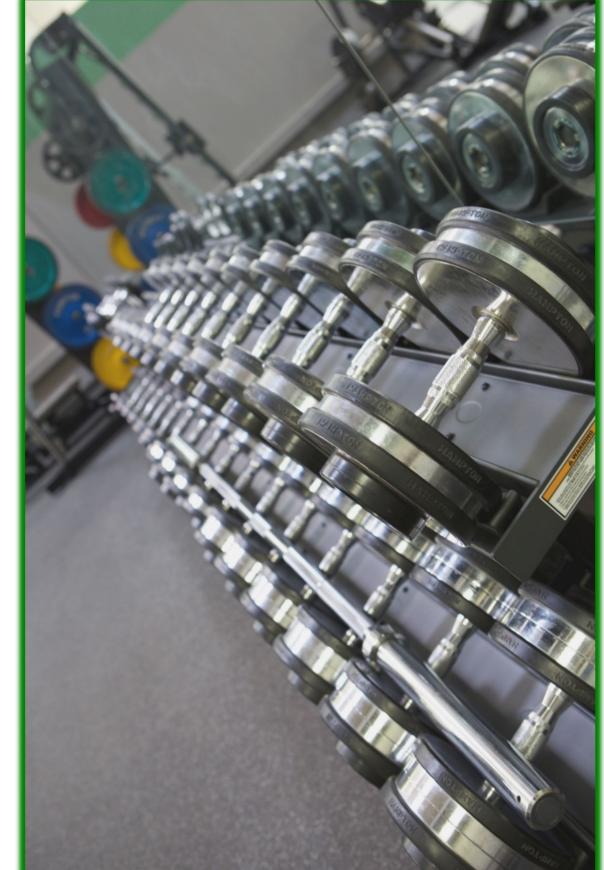
• 60-75 y Pre-RT ── 60-75 y Post-RT 20

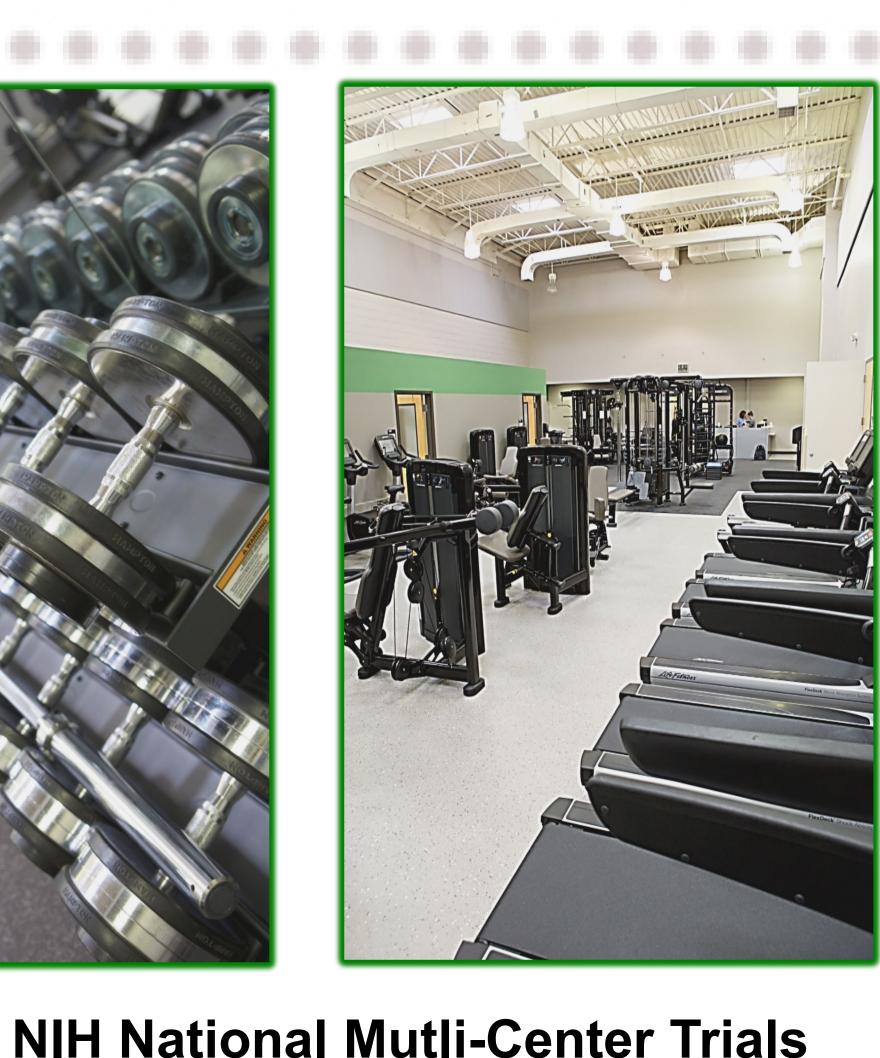


Our 4200 sq. ft. core facility is well-equipped to provide a clean, safe and user friendly exercise training and testing environment for supervised exercise clinical trials. Three laboratories and a clinic are available for a wide array of clinical assessments physiological and performance tests.









- GE Lunar iDXA (Dual Energy X-ray Absorptiometry)
- CoreScan, Total Body Density, Orthopedic Knee and Hip, Sarcopenia, Atypical Femur Fracture, Trabecular Bone Score, AP Spine, Dual Femur, Orthopedic Hip Implant, Pediatric measurement, Lateral Spine, BMD with trending, LVA Morphometry and Spine Geometry

Cardiorespiratory Function Lab

- 12-lead ECG diagnostic graded exercise stress testing
- Aerobic power, i.e. maximal oxygen uptake (VO2max)
- Anaerobic power (e.g., Wingate cycle test)
- Steady state cardiorespiratory and metabolic demand (e.g., stair climbing, walking)
- Resting Metabolic Rate

■ MoTrPAC – The Molecular Transducers of Physical Activity Consortium

☐ PHITE - Precision High Intensity Training

through Epigenetics

- ☐ STEP Supervised VS Telerehab Exercise Program For People with Multiple Sclerosis
- □ ACES Antihypertensives Combined with Exercise for Seniors with Hypertension
- ☐ TWEAK Overcoming TWEAK Signaling to Restore Muscle and Mobility After Joint Replacement
- ☐ MASTERS Metformin to Augment Strength Training
- □ PDEx Impact of Intensity on Efficacy of Exercise Rehabilitation in Parkinsons Disease

Neuromuscular Function Lab

- Joint kinematics (electrogoniometry) and kinetics
- Maximum voluntary strength testing
- Electrically evoked maximum force measurement
- Neuromuscular power assessment
- Muscle fatigue testing
- Muscle activation via wireless surface EMG
- Computerized gait analysis

Meet the Team

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