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### *Key questions defining research program:*

- What risk factors are associated with musculoskeletal disease in COPD?
- What is the impact of musculoskeletal disease on COPD outcomes?
- What role does inflammation play in COPD-related bone loss and muscle atrophy?
- What role does autoimmunity play in COPD-related musculoskeletal disease and dysfunction?

### *Key words describing research program:*

- COPD
- Osteoporosis
- Muscle atrophy
- Inflammation
- Autoimmunity

### *Titles for shovel-ready research projects:*

- Impact of incident vertebral fractures on pulmonary physiology in COPD
- Impact of adiposity on COPD outcomes
- Determinants of muscle function in COPD

### *Data sources for shovel-ready research projects:*

- University of Pittsburgh COPD SCCOR longitudinal cohort
- VA COPD longitudinal cohort