

LTRC CONCEPT SHEET # 08-99-0014

THE CORRELATION OF CT MEASURES OF LUNG STRUCTURE AND FUNCTION IN SUBJECTS WITH COPD

ABSTRACT

I PROPOSE TO EXAMINE QUANTITATIVE MEASURES OF AIRWAYS DISEASE ON SUBJECTS WITH COPD AND CORRELATE THESE MEASURES WITH INDICES OF LUNG FUNCTION, SUBJECTIVE ASSESSMENTS OF PATIENT SYMPTOMS, AND METRICS OF EXERCISE PERFORMANCE. I AM SPECIFICALLY INTERESTED IN THE USE OF CT MEASURES OF AIRWAY WALL DENSITY TERMED WALL ATTENUATION FROM THE INSPIRATORY/EXPIRATORY CT IMAGES AND ITS CORRELATION WITH LUNG FUNCTION, SUBJECT SYMPTOMS, ARTERIAL BLOOD GASES AND EXERCISE TEST PERFORMANCE.