

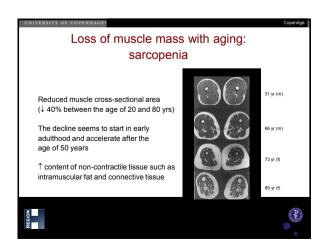
Elderly patients arrive sick and often leave disabled from hospital About one-third of patients over 70 years old and more than half of patients over 85 leave the hospital more disabled than when they arrived.

- As a result, many seniors are unable to care for themselves after discharge and need assistance with daily activities such as bathing, dressing or even walking.
- Increasing severity of these functional impairments is associated with increased risk of readmission, morbidity and mortality.

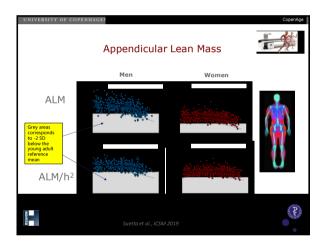


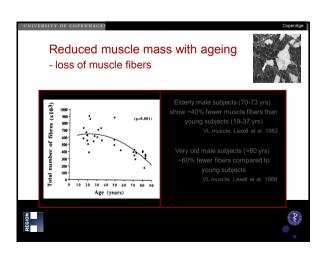


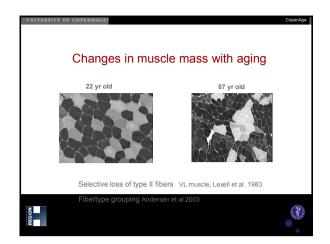
Why is skeletal muscle important? 1. Skeletal muscle accounts for ≈40% of our total body mass 2. It is important for metabolic function and acts as a reservoir in catabolic conditions 3. Low muscle mass markedly increases the risk of frailty, morbidity and mortality

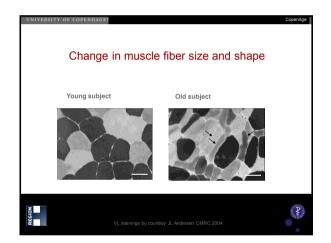




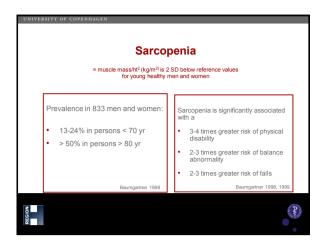


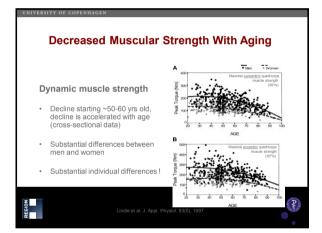












Relationship between strength and function in 65+ yr old people

• Knee extensor strength and normal gait speed (Anianson 1980, Wolfson 1995, Brown 1995, Ferrucci 1997)

• Knee extensor strength and step height in women (Aniansson 1980)

• Knee extensor strength and chair rise (Skelton 1994, Ferrucci 1997)

• Knee extensor strength and balance in women (Ferrucci 1997, Beyer 2007)

