

**Steps to Developing a DXA-Based Risk Score for Cardiovascular Outcomes Among Older
Adults: The Health, Aging, and Body Composition Study**

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Variables	Label
ablev	Vertebral Level
abslc	Abdomen Slice Thick
abpath	Abdomen Pathology
thslc	Thigh Slice Thick
thpath	Thigh Pathology
Leg	Leg, R/L, of CT scan
cttdate	Exam Date:CT soft tissue
hip	Staff ID: DXA
hipmode	Hip Scan Mode
hipscanid	Hip scan ID
hipdate	Hip Date of Exam
wbscnpro	Scan Protocol
wbfinal	Whole Body Final scan status
wbmode	Whole Body Scan Mode
wbscanid	Whole Body Scan ID on printout
wbdate	Whole Body Date of Exam

Supplementary Table S1. Summary of the Removed 16 Irrelevant DXA Variables.

Description	Side of Measurement
Abdomen field of view (cm)	-
Abdomen CT peak kilovolts (kVp)	-
Abdomen exposure time (ma/sec)	-
Maximum sagittal diameter (mm)	Overall
Abdomen subcutaneous fat area 1 (cm ²)	Overall
Abdomen subcutaneous fat density (HU)	Overall
Abdomen Subcutaneous Fat Density SD (HU)	Overall
Abdomen total area (cm ²)	Overall
Abdomen visceral fat area1 (cm ²)	Overall
Abdomen visceral fat density (HU)	Overall
Abdomen visceral fat density SD (HU)	Overall
Head lean (gm)	Overall
Arm lean (gm)	Non-Dominant
Leg lean (gm)	Non-Dominant
Total lean (gm)	Overall
Trunk lean (gm)	Overall
Head area (cm ²)	Overall
Head bone mineral content (gm)	Overall
Head bone mineral density (gm/cm ²)	Overall

Head fat (gm)	Overall
Head fat free mass (gm)	Overall
Hip total area (cm ²)	Overall
Hip total bone mineral content (gm)	Overall
Hip total bone mineral density (gm/cm ²)	Overall
Arm area (cm ²)	Non-Dominant
Arm bone mineral content (gm)	Non-Dominant
Arm bone mineral density (gm/cm ²)	Non-dominant
Arm fat (gm)	Non-dominant
Arm fat free mass (gm)	Non-dominant
Y1: Total (R+L) lateral abdominal muscle area (cm ²)	Overall
Lat abdominal density (HU)	Non-dominant
Lat abdominal density SD (HU)	Non-dominant
Leg area (cm ²)	Non-dominant
Leg bone mineral content (gm)	Non-dominant
Leg bone mineral density (gm/cm ²)	Non-dominant
Leg fat (gm)	Non-dominant
Leg fat free mass (gm)	Non-dominant
Psoas area (cm ²)	Non-dominant
Psoas density (HU)	Non-dominant

Psoas density SD (HU)	Non-dominant
Rectus area (cm ²)	Non-dominant
Rectus density (HU)	Non-dominant
Rectus density SD (HU)	Non-dominant
Rib area (cm ²)	Non-dominant
Rib bone mineral content (gm)	Non-dominant
Rib bone mineral density (gm/cm ²)	Non-dominant
Lumbar spine area (cm ²)	Overall
Lumbar spine bone mineral content (gm)	Overall
Lumbar spine bone mineral density (gm/cm ²)	Overall
Thigh bone area (cm ²)	Non-dominant
Thigh hamstrings area (cm ²)	Non-dominant
Thigh hamstrings density (HU)	Non-dominant
Thigh hamstrings density SD (HU)	Non-dominant
Thigh intermuscular fat area (cm ²)	Non-dominant
Thigh intermuscular fat density (HU)	Non-dominant
Thigh intermuscular fat density SD (HU)	Non-dominant
Thigh total muscle area (cm ²)	Non-dominant
Thigh total muscle density (HU)	Non-dominant
Thigh total muscle density SD (HU)	Non-dominant

Thigh quadriceps area (cm ²)	Non-dominant
Thigh quadriceps density (cm ²)	Non-dominant
Thigh quadriceps density SD (HU)	Non-dominant
Thigh subcutaneous fat area (cm ²)	Non-dominant
Thigh subcutaneous fat density (HU)	Non-dominant
Thigh subcutaneous fat density SD (HU)	Non-dominant
Thigh total area (cm ²)	Non-dominant
Pelvic area (cm ²)	Overall
Pelvic bone mineral content (gm)	Overall
Pelvic bone mineral density (gm/cm ²)	Overall
Thigh length (mm)	Overall
Thigh Field of View (mm)	-
Thigh CT Peak Kilovolts (kVp)	-
Thigh exposure time (milliamps/sec)	-
Thigh scan location (mm)	-
Total fat (gm)	Overall
Total fat free mass (gm)	Overall
Total mass (gm)	Overall
Total percentage fat (%)	Overall
Trunk bone mineral content (gm)	Overall

Trunk fat free mass (gm)	Overall
Trunk fat (gm)	Overall
Thor spine area (cm ²)	Overall
Thor spine bone mineral content (gm)	Overall
Thor spine bone mineral density (gm/cm ²)	Overall
Whole body total area (cm ²)	Overall
Whole body bone mineral content (gm)	Overall
Whole body bone mineral density (gm/cm ²)	Overall

Supplementary Table S2. Summary of 87 DXA Variables that Entered Study.