

Data Availability

- Available Data
- Unavailable Data
- Data Organization and Format

Available Data for SOF Public Data Release Version 3.0

1. Clinic visit data. The following data are available at one or more of the first nine clinical visits: Visit 1 (baseline) through Visit 9.
 - Self-administered questionnaire, which includes demographic information, history of falls and fractures, personal habits, female history, medical history, lifestyle, diet, etc.
 - Clinic interview, which includes quality of life, medication use, physical function, sleep questionnaires, etc.
 - Clinic examination, which includes anthropometric measures, physical performance, cognitive measurements, vision test, objective sleep measurements, bone mineral density measurements by SPA, bone mineral density measurements by DXA, etc.
2. Endpoints/Outcomes data for:
 - Incident breast cancer
 - Incident fractures
 - Mortality
3. Morphometry: x-ray confirmed vertebral fractures.
4. Lab data:
 - Calcium 45 is available at Visit 4
 - Various baseline measurements are available in the following 3 substudies:

Study	Design	Measurements
Cohort Data from Fracture Study	400 random cohort	Estradiol, Estrone, IGF-1, IGF-BP3, SHBG, Free Testosterone, Percent Free Testosterone, Total Testosterone, DHEA-S, TSH, T4, Free T4, BSAP, Osteocalcin, CTX, PTH, Creatinine, C-reactive protein, Total Protein, Gamma, 1,25(OH)2D, 25(OH)D, Calcium, Cholesterol, Triglycerides, HDL, LDL, Albumin, Fructosamine, Vitamin B-12, 3-alpha-diol-G, Alpha1, Alpha2, Beta, Ferritin
Cohort Data from Breast Cancer Study	312 random cohort	Androstenedione, Bioavailable Estradiol, Free Estradiol, Total Estradiol, Bioavailable Estrone, Estrone-sulfate, DHEA-S, SHBG, Free Testosterone, Total Testosterone, 2-hydroxtestrone, 16 α -hydroxyestrone
Stroke Case-Control Study	490 total (243 stroke cases, 247 controls)	Total Estradiol, IGF-1, SHBG, Calcium, Cholesterol, Triglycerides, HDL, LDL, Fructosamine, Creatinine, C-reactive protein, Homocysteine, OPG, Osteocalcin, Phosphorus, PTH

Data not Available for SOF Public Data Release Version 3.0

1. Osteoarthritis
2. Bone structural geometry of the hip

Data organization

The SOF public data are released in data files organized by study visit and category. For example, data from visit 4 pertaining to cognitive function will be stored together in a single data file. There are total 9 visits for the main Caucasian cohort (visit abbreviation: V1, V2, V3, V4, V5, V6, V7, V8 and V9) and 4 visits for African American cohort (visit abbreviation: AA, V7, V8 and V9). In addition to regular clinic visits, participants were also contacted by phone interview at 1 year (first annual) and 3 years (third annual) after baseline. Because of the similarity and short time interval between the questions asked at the annual phone interview and those asked at the regular visit, we combined 1st annual questions into the Visit 1 (baseline) data files and 3rd annual questions into the Visit 3 data files.

Data files are available in SAS Version 9 file format.

The following are the categories by which the data are grouped and the documentation is organized online. Each category contains one or more subcategories.

1. Anthropometric measure
2. Cognitive function
3. Demographics
4. Dual x-ray absorptiometry (DXA)
5. Endpoints/outcome
6. Exam bookkeeping
7. Family history
8. Female history
9. Fractures and falls history
10. Lab data
11. Lifestyle
12. Medical history
13. Medications
14. Morphometry
15. Physical function
16. Physical performance
17. Quality of life
18. Sleep
19. Vision
20. Vital signs