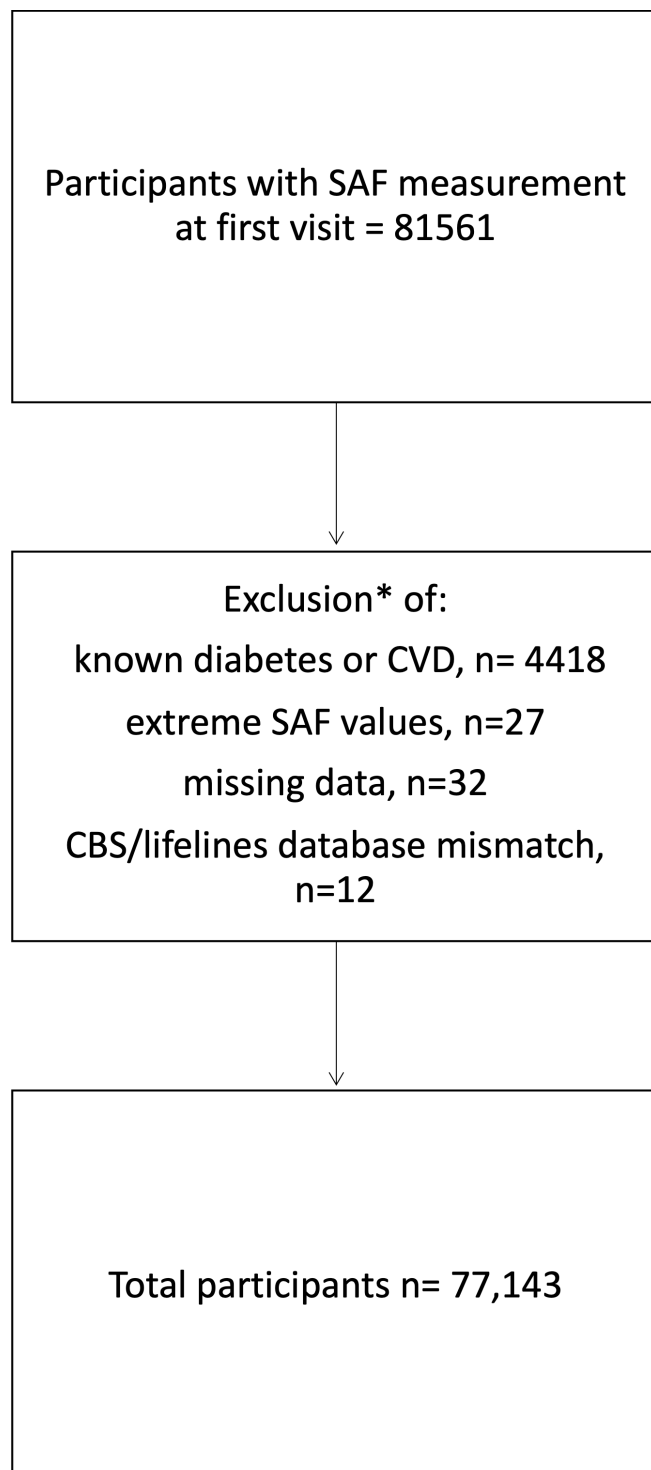


Supplementary Figure S1

Flow chart of the study population



Flow chart of enrolment of the study population. The * indicate that multiple reasons may apply.

Supplementary Table S2

Skin autofluorescence and cause specific mortality

Underlying Cause of Death	n	SAF	SAF-z
Heart disease	179 (12.3%)	2.36±0.51	0.34±0.90
Malignant neoplasms	855 (58.9%)	2.30±0.49	0.35±0.90
Chronic lower respiratory disease	27 (1.9%)	2.73±0.49	0.81±1.08
Accidents (unintentional injuries)	42 (2.9%)	2.22±0.47	0.37±0.80
Cerebrovascular disease	63 (4.3%)	2.43±0.46	0.36±0.83
Alzheimer's disease	15 (1.0%)	2.39±0.42	0.24±0.88
Diabetes mellitus	<10		
Influenza and pneumonia	12 (0.8%)	2.29±0.61	-0.26±1.21
Renal disease	<10		
All other causes	219 (15.1%)	2.31±0.51	0.32±0.88
Unknown	20 (1.4%)	2.18±0.54	0.27±0.97
Peripheral artery disease	16 (1.1%)	2.41±0.73	0.46±1.34
Total	1451	2.32±0.50	0.35±0.91

Frequencies, means±SD SAF and SAF-z of cause-specific mortality for participants in the Lifelines Study.

The following ICD-10 codes were used: heart disease (I00-I09, I11, I13, I20-I51), malignant neoplasms (C00-C97), chronic lower respiratory disease (J40-J47), accidents (unintentional injuries) (V01-X59, Y85-Y86), cerebrovascular disease (I60-I69), Alzheimer's disease (G30), diabetes mellitus (E10-E14), influenza and pneumonia (J09-J18, U07), renal disease (N00-N07, N17-N19, N25-N27), peripheral artery disease (I70-I73)

Due to CBS privacy guidelines, SAF cannot be reported for groups comprising fewer than 10 individuals.

Supplementary Table S3

Skin autofluorescence and cancer mortality

Cancer type	N (%)	SAF	SAF-z	p*
Esophagus (C15)	49 (5.7%)	2.23±0.45	0.21±0.92	0.22
Stomach (C16)	22 (2.6%)	2.15±0.48	0.13±0.86	0.82
Colon and rectum (C18-20)	89 (10.4%)	2.25±0.51	0.30±0.95	0.005
Pancreas (C25)	71 (8.3%)	2.17±0.41	0.11±0.76	0.79
Bronchus and lung (C34)	172 (20.1%)	2.43±0.49	0.61±0.95	<0.001
Melanoma of skin (C43)	34 (4.0%)	2.34±0.55	0.59±0.99	<0.001
Breast (C50)	81 (9.5%)	2.10±0.41	0.24±0.74	0.06
Ovary (C56)	37 (4.3%)	2.34±0.48	0.40±0.88	0.007
Prostate (C61)	33 (3.9%)	2.32±0.39	0.03±0.73	0.61
Kidney and ureter (C64, C66)	31 (3.6%)	2.29±0.51	0.19±1.02	0.42
Brain (C71)	37 (4.3%)	2.21±0.43	0.32±0.77	0.04
Other	199 (23.3%)	2.28±0.48	0.34±0.90	<0.001

ICD-10 codes, frequencies, means±SD SAF and SAF-z of mortality by cancer type for participants in the Lifelines Study.

*Compared SAF-z with those still alive (SAF-z 0.09±0.69)