

S4 Table. General characteristics of the overall KORA-S4 participants compared to those analysed in this fundus sub-study.

Shown are participant characteristics for the total study sample (n=4,261), for those subjects without any acquired fundus image (without image, n=1,472), for subjects without grading possible for each eye or with a competing retinal disease (n=243), and for those with gradable fundus image for each eye and no competing retinal disease (analysed subjects, n=2,546). Also shown is a P-value for difference between the analysed subjects and those subjects the un-gradable/with competing retinal disease and between the analysed and those without image computed as linear/logistic regression without and with adjusted for age and sex (where applicable).

	n	All	Without image	With image		P-value for difference			
				Not gradable / competing retinal disease	Analysed	Analysed vs. not gradable / competing retinal disease		Analysed vs. without image	
						Unadj.	Adj.	Unadj.	Adj.
Age [years], mean \pm SD	4261	49.18 \pm 13.94	50.26 \pm 14.00	60.48 \pm 11.41	47.48 \pm 13.56	9.80*10 ⁻⁴⁶	5.84*10 ⁻⁴⁶	7.56*10 ⁻¹⁰	4.86*10 ⁻¹⁰
Age \geq 50 years, n (%)	4261	2093 (49.12)	764 (51.90)	204 (83.95)	1125 (44.19)	6.11*10 ⁻²⁶	4.21*10 ⁻²⁶	2.41*10 ⁻⁶	1.69*10 ⁻⁶
Men, n (%)	4261	2090 (49.05)	700 (47.55)	112 (46.09)	1278 (50.20)	0.22	0.11	0.11	0.06
Lifestyle factors									
Current smoker ^a , n (%)	4256	1107 (26.01)	325 (22.09)	46 (18.93)	736 (28.95)	1.02*10 ⁻³	0.74	2.19*10 ⁻⁶	7.76*10 ⁻⁴
Ex-smoker, n (%)	4256	1332 (31.30)	438 (29.78)	91 (37.45)	803 (31.59)	0.06	0.96	8.20*10 ⁻⁴	1.39*10 ⁻³
Never smoker, n (%)	4256	1817 (42.70)	708 (48.13)	106 (43.62)	1003 (39.46)	0.21	0.99	9.05*10 ⁻⁸	4.73*10 ⁻⁶
Pack years ^b , mean \pm SD	4174	11.11 \pm 18.37	10.45 \pm 18.67	14.54 \pm 21.71	11.16 \pm 17.81	5.79*10 ⁻³	0.30	0.24	0.068
Physically active ^c , n (%)	4242	2064 (48.66)	666 (45.28)	107 (44.03)	1291 (51.07)	0.037	0.55	4.14*10 ⁻⁴	4.36*10 ⁻³
Healthy diet ^d , n (%)	4241	2412 (56.87)	833 (56.63)	167 (69.01)	1412 (55.85)	9.33*10 ⁻⁵	0.26	0.63	0.29
Metabolic parameters									
BMI [kg/m ²] ^e , mean \pm SD	4224	27.22 \pm 4.73	27.63 \pm 4.72	28.44 \pm 4.33	26.87 \pm 4.73	6.98*10 ⁻⁷	0.34	1.09*10 ⁻⁶	1.28*10 ⁻³
T2DM ^f , n (%)	4255	170 (4.00)	57 (3.88)	24 (9.88)	89 (3.50)	4.33*10 ⁻⁶	0.07	0.54	0.62
Hypertension ^g , n (%)	4243	1286 (30.31)	472 (32.11)	97 (40.08)	717 (28.33)	1.43*10 ⁻⁴	0.76	0.01	0.35
HDL-C [mg/dl]	4214	57.71 \pm 17.00	57.96 \pm 17.10	57.20 \pm 15.21	57.62 \pm 17.12	0.71	0.41	0.54	0.95
LDL-C [mg/dl]	4209	137.47 \pm 41.53	137.86 \pm 39.84	149.86 \pm 41.42	136.07 \pm 42.29	1.48*10 ⁻⁶	0.65	0.19	0.50

Abbreviations: SD = standard deviation; BMI = body-mass-index; T2DM = type 2 diabetes; HDL-C, LDL-C = high and low density lipoprotein cholesterol; unadj. = unadjusted; adj. = adjusted for age and sex if not indicated otherwise;

^{a)} Current smokers are defined as regular smokers currently smoking ≥ 1 cigarette day, and occasional smokers, currently smoking < 1 cigarette per day.

^{b)} Pack years are defined as number of packs (20 cigarettes per pack) smoked per day times the number of years of smoking.

^{c)} Physically active is defined as ≥ 1 hour of activity per week during leisure time in summer and winter.

^{d)} Healthy diet is defined as a healthy diet score above the median of the analysed sample (median score = 15.00).

^{e)} BMI is defined as measured weight divided by squared measured body height.

^{f)} T2DM is defined as a self-reported diagnosis or anti-diabetes medication intake.

^{g)} Hypertension is defined as actually measured systolic blood pressure of ≥ 140 mmHg, diastolic blood pressure of ≥ 90 mmHg or corresponding medication taken, given that the participants were aware of having hypertension.