

Supplementary Table:

Table 2: The numbers and percentages (with 95%CI) of race entrants identified by the five screening tools as being within the six main domains of risk (history of CVD, symptoms of CVD, risk factors for CVD, history of any chronic disease and chronic diseases by organ systems, prescription medication use and a history of musculoskeletal injury) (total n=76654)

Main domain of risk	AHA (n=8402)		Pre-2015 ACSM (n=27111)		Post-2015 ACSM (n=5366)		PAR-Q (n=18983)		EACPR (n=27115)	
	n	% (95%CI)	n	% (95%CI)	n	% (95%CI)	n	% (95%CI)	n	% (95%CI)
1. Any history of CVD	1001	1.31 (1.23-1.39)	1410	1.84 (1.74-1.93)	1410	1.84 (1.74-1.93)	1410	1.84 (1.74-1.93)	1410	1.84 (1.74-1.93)
2. Any symptoms of CVD	588	0.77 (0.71-0.83)	804	1.05 (0.98-1.12)	853	1.11 (1.04-1.19)	552	0.72 (0.66-0.78)	804	1.05 (0.98-1.12)
3. Any risk factor for CVD	6560	8.56 (8.36-8.76)	7643	9.97 (9.76-10.18)	2255	2.94 (2.82-3.06)	5576	7.27 (7.09-7.46)	7643	9.97 (9.76-10.18)
≥2 CVD risk factors	2202	2.87 (2.75-2.99)	2392	3.12 (3.00-3.24)	800	1.04 (0.97-1.12)	1704	2.22 (2.12-2.33)	2392	3.12 (3.00-3.24)
4. Any other chronic disease	1661	2.17 (2.06-2.27)	4685	6.11 (5.94-6.28)	3474	4.53 (4.38-4.68)	2629	3.43 (3.30-3.56)	4686	6.11 (5.94-6.28)
Any metabolic endocrine disease	665	0.87 (0.80-0.93)	1853	2.42 (2.31-2.53)	2111	2.75 (2.64-2.87)	886	1.16 (1.08-1.23)	1853	2.42 (2.31-2.53)
Any respiratory disease	1218	1.59 (1.50-1.68)	7081	9.24 (9.03-9.44)	988	1.29 (1.21-1.37)	2665	3.48 (3.35-3.61)	7081	9.24 (9.03-9.44)
Any kidney / bladder disease	332	0.43 (0.39-0.48)	755	0.98 (0.92-1.05)	1121	1.46 (1.38-1.55)	539	0.70 (0.64-0.76)	755	0.98 (0.92-1.05)
History of cancer	329	0.43 (0.38-0.48)	733	0.96 (0.89-1.03)	209	0.27 (0.24-0.31)	478	0.62 (0.57-0.68)	733	0.96 (0.89-1.03)
Nervous system / Psychiatric	482	0.63 (0.57-0.68)	1556	2.03 (1.93-2.13)	499	0.65 (0.59-0.71)	875	1.14 (1.07-1.22)	1557	2.03 (1.93-2.13)
Haematological / Immune disease	122	0.16 (0.13-0.19)	427	0.56 (0.50-0.61)	156	0.20 (0.17-0.24)	232	0.30 (0.26-0.34)	427	0.56 (0.50-0.61)
GIT disease	501	0.65 (0.60-0.71)	1508	1.97 (1.87-2.07)	459	0.60 (0.54-0.65)	984	1.28 (1.20-1.36)	1509	1.97 (1.87-2.07)
5. Any prescription medication use	4409	5.75 (5.59-5.92)	10143	13.23 (12.99-13.47)	2753	3.59 (3.46-3.72)	6214	8.11 (7.91-8.30)	10143	13.23 (12.99-13.47)
6. Any musculoskeletal injuries	2497	3.26 (3.13-3.38)	14766	19.26 (18.98-19.54)	1660	2.17 (2.06-2.27)	14766	19.26 (18.98-19.54)	14766	19.26 (18.98-19.54)

AHA: American Heart Association

Pre-2015 ACSM: Pre-2015 American College of Sports Medicine

Post-2015 ACSM: Post-2015 American College of Sports Medicine

PAR-Q: Physical Activity Readiness Questionnaire

EACPR: European Association of Cardiovascular Prevention and Rehabilitation

CVD: cardiovascular disease

GIT: gastrointestinal

Bold text indicates a lowest percentage of participants identified and 95%CIs do not overlap with any other tool