Supplementary Material

hypertension										
Diabetes	0.46	Diabet	es		p<0.001 (chi² test)					
Cholesterol	0.22	0.17	Cholesterol					p<0.01 (chi² test)		
Obesity	0.37	0.49	0.28	Obesit	Obesity p<0.05 (chi² test)					
Depression	0.14	0.23	0.06	0.21	Depression					
Ab sleep	0.08	0.25	0.16	0.21	0.55	55 Ab sleep				
Smoking	-0.14	-0.08	0.09	-0.13	0.32	0.26	Smoking			
Drinking	0.07	-0.13	-0.21	-0.07	-0.26	-0.26	-0.02	-0.02 Drinking		
Poor diet	0.05	0.03	0.06	-0.00	0.14	0.10	0.43	0.08	Poor diet	
Inactive	0.17	0.37	0.04	0.27	0.4	0.42	0.29	-0.21	0.24	

Fig S1. Correlation matrix of the CVD risk variables (Goodman and Kruskal's gamma)

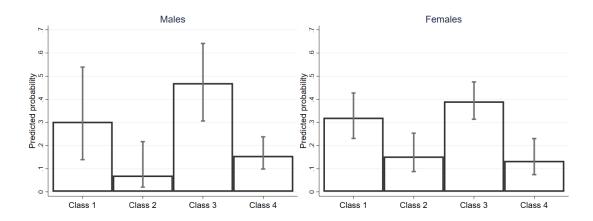


Fig S2. Predicted probability of class membership by sex from the multi-group model

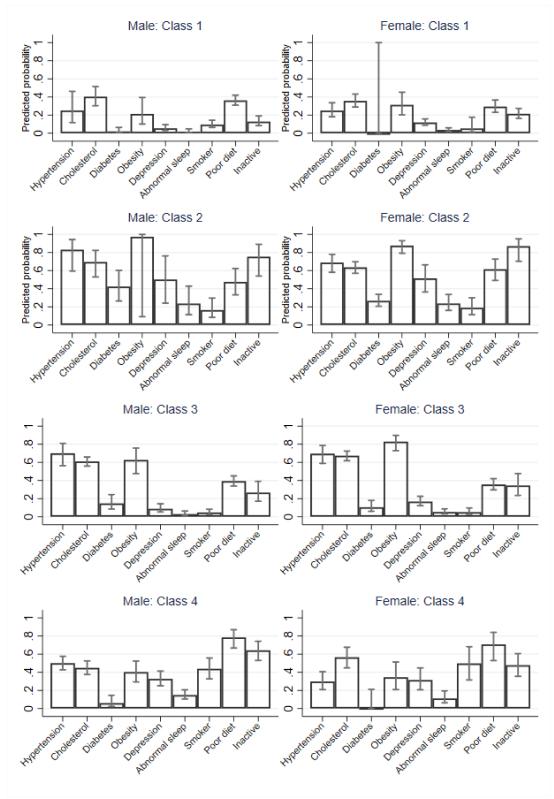


Fig S3. Predicted probabilities of CVD risks by latent classes from LCA and sex

Supplementary Table S1: Participants' characteristics by latent classes

			Class 1:	Class 2:	Class 3:	Class 4:
		All %	Low-risk	High-risk	Clinical-risk	Lifestyle-risk
Gender:	Women	55.05	52.21	64.91	54.11	56.94
Ethnicity:	Non-white	2.56	2.12	4.26	2.50	2.12
Age:	50-59	28.26	36.14	19.47	23.72	36.69
	60-69	37.11	38.22	33.27	37.73	34.99
	70-79	24.43	18.72	28.30	28.10	19.69
	80+	10.20	6.92	18.97	10.45	8.64
Education:	Low	28.01	18.37	46.39	27.52	40.65
	Medium	40.40	40.39	35.71	41.62	40.23
	High	31.58	41.24	17.90	30.86	19.12
Social class:	Low	30.38	23.13	45.11	29.19	43.13
	Medium	35.36	35.15	33.37	35.82	36.32
	High	34.26	41.71	21.52	34.99	20.55
Wealth:	20% lowest	16.67	9.57	34.61	13.57	34.82
	Medium	60.66	58.96	55.79	63.77	56.50
	20% highest	22.67	31.47	9.61	22.66	8.67
Loneliness:	20% highest	20.23	16.23	38.88	16.61	33.16
Living:	Alone	25.42	19.76	40.97	23.34	36.12
Social isolation:	20% highest	19.96	19.07	19.49	20.10	23.45
Disengagement:	20% highest	23.62	13.45	46.16	21.33	49.34
Health:	Existing CVD	24.47	17.57	40.67	25.43	21.95
N		8,218†	2,601	986	3,925	706

Notes: † Education (0.2%), social class (2.2%), wealth (6.3%), loneliness (10.9%), social isolation (20.0%) and social disengagement (16.8%) contained missing values.