

Differences in body composition convey a similar risk of type 2 diabetes among different ethnic groups – the HELIUS study

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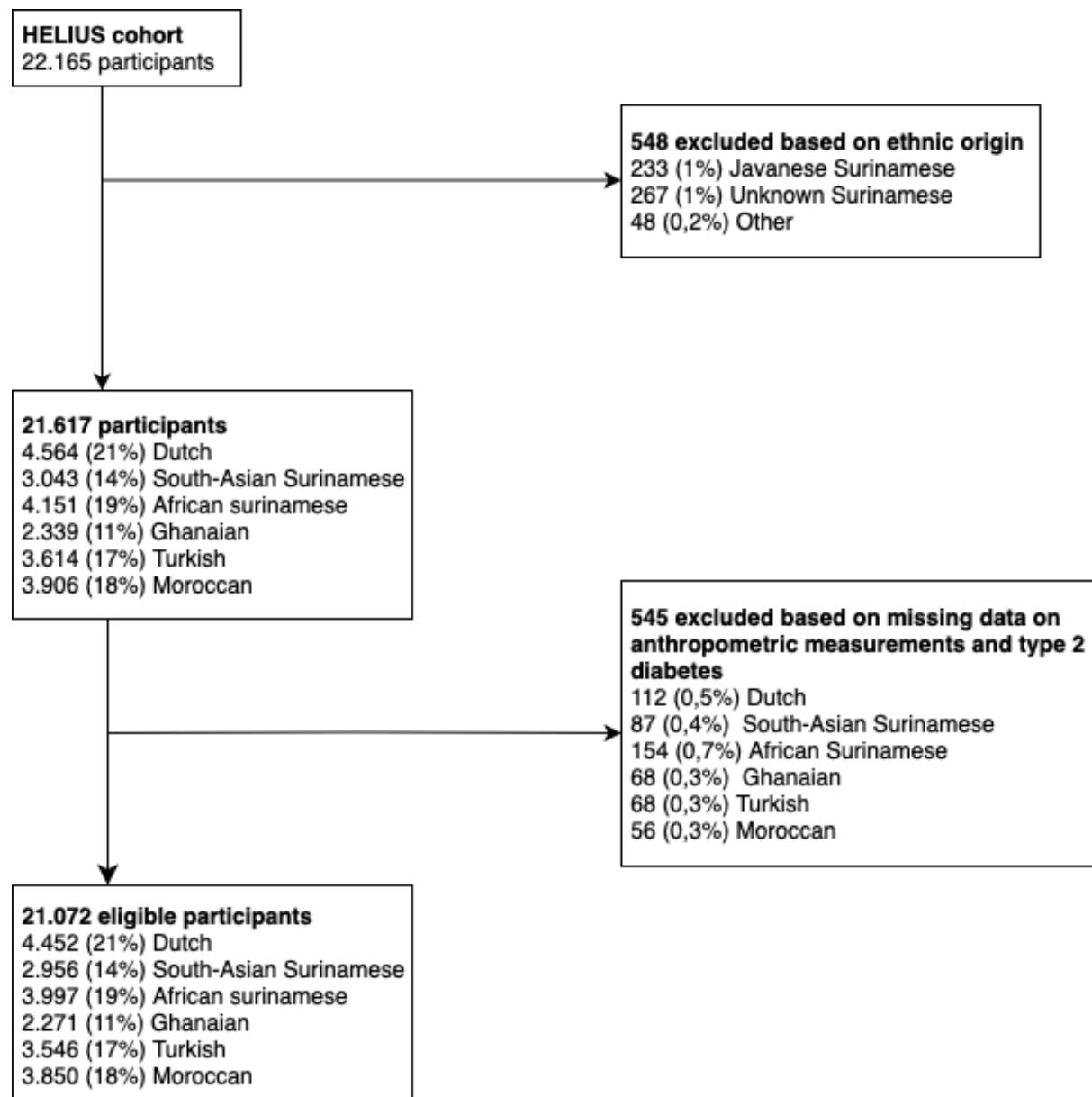
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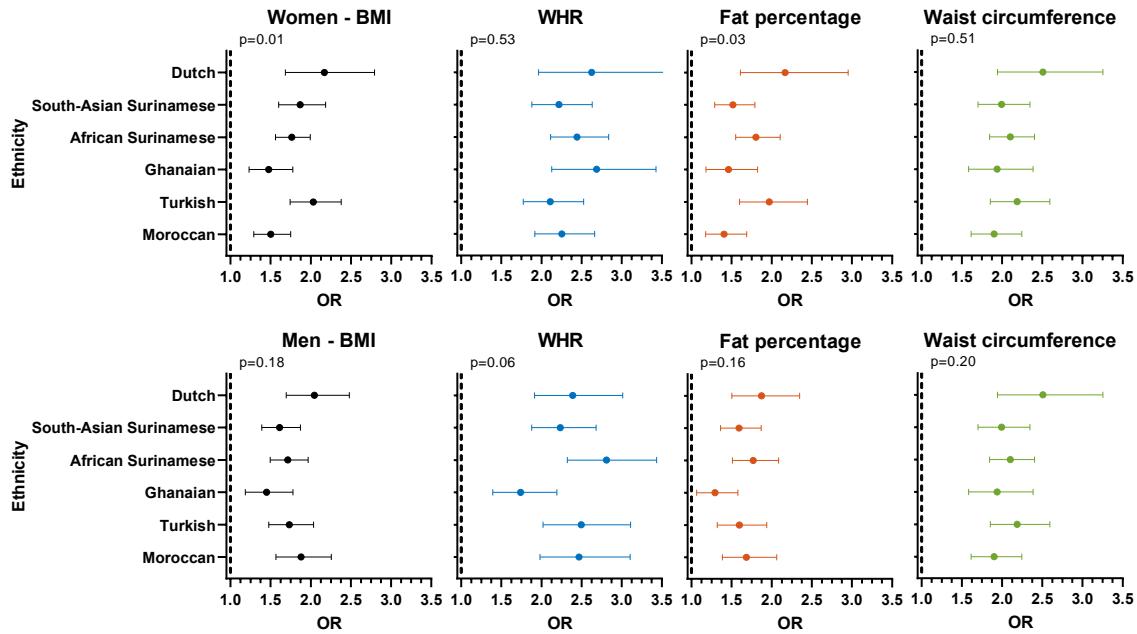
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Supplementary Figure S1: Flow chart of selecting study population and inclusion in analysis



Supplementary Figure S2: Age adjusted odds ratios for the relation between the presence of type 2 diabetes and changes in BMI, WHR, fat percentage and waist circumference, using standardized coefficients, taking the interaction between ethnicity and anthropometric measures into account



WHR was multiplied by 100

Supplementary Table S1: AUC and sensitivity and specificity for BMI, WHR, fat percentage and waist circumference as predictors of type 2

Ethnicity	BMI		WHR		Fat percentage		Waist circumference		AUC (95%CI)	sens	spec	
	AUC (95%CI)	sens	spec	AUC (95%CI)	sens	spec	AUC (95%CI)	sens	spec			
<i>Men</i>												
Dutch	0.85 (0.81-0.88)	0.83	0.55	0.85 (0.82-0.87)	0.97	0.37	0.82 (0.79-0.85)	0.73	0.59	0.85 (0.82-0.84)	0.63	0.81
South-Asian Surinamese	0.82 (0.79-0.84)	0.91	0.49	0.83 (0.81-0.86)	0.99	0.24	0.81 (0.79-0.84)	0.71	0.47	0.82 (0.80-0.85)	0.83	0.45
African Surinamese	0.80 (0.77-0.83)	0.80	0.45	0.82 (0.80-0.85)	0.95	0.23	0.79 (0.75-0.82)	0.68	0.57	0.80 (0.78-0.83)	0.41	0.85
Ghanaian	0.68 (0.64-0.72)	0.76	0.37	0.71 (0.66-0.75)	0.88	0.32	0.68 (0.63-0.72)	0.56	0.58	0.69 (0.65-0.74)	0.34	0.86
Turkish	0.81 (0.79-0.84)	0.93	0.28	0.83 (0.80-0.85)	0.99	0.25	0.80 (0.77-0.83)	0.77	0.42	0.82 (0.79-0.85)	0.59	0.70
Moroccan	0.84 (0.81-0.86)	0.85	0.38	0.84 (0.81-0.87)	0.95	0.31	0.83 (0.80-0.85)	0.76	0.47	0.84 (0.81-0.86)	0.52	0.78
<i>Women</i>												
Dutch	0.88 (0.84-0.91)	0.78	0.67	0.87 (0.84-0.91)	0.89	0.60	0.87 (0.83-0.90)	0.71	0.66	0.88 (0.85-0.92)	0.81	0.66
South-Asian Surinamese	0.81 (0.79-0.83)	0.80	0.47	0.82 (0.80-0.84)	0.95	0.36	0.79 (0.77-0.82)	0.82	0.40	0.81 (0.79-0.84)	0.97	0.28
African Surinamese	0.80 (0.78-0.82)	0.92	0.32	0.82 (0.80-0.84)	0.90	0.44	0.79 (0.77-0.81)	0.86	0.39	0.81 (0.79-0.83)	0.91	0.43
Ghanaian	0.76 (0.72-0.79)	0.96	0.20	0.80 (0.77-0.84)	0.91	0.37	0.75 (0.72-0.79)	0.87	0.30	0.78 (0.75-0.82)	0.90	0.36
Turkish	0.85 (0.83-0.88)	0.97	0.77	0.85 (0.82-0.87)	0.90	0.47	0.84 (0.81-0.86)	0.92	0.38	0.86 (0.83-0.88)	0.92	0.48
Moroccan	0.87 (0.85-0.88)	0.96	0.36	0.88 (0.86-0.90)	0.92	0.52	0.86 (0.84-0.88)	0.92	0.35	0.87 (0.86-0.89)	0.95	0.47

Sens: sensitivity; spec: specificity; Sensitivity and specificity were calculated by using the WHO recommended cut-offs (i.e. South-Asian Surinamese: BMI men and women>22.9 kg/m², WHR men >0.9, WHR women >0.85, fat percentage men >25 %, fat percentage women 35 %, waist circumference men >90 cm, waist circumference women >80 cm; Dutch, African Surinamese, Ghanaian, Moroccan, Turkish: BMI men and women>24.9 kg/m², WHR men, WHR women, fat percentage men >25 %, fat percentage women >35 %, waist circumference men >102 cm, waist circumference women >88 cm) (16,17).