

Table 1S: Association of anthropometric indexes with the risk of high blood pressure

	Children <10y					Children ≥10y				
	BMIz	ABSIz	TMI	C-Index	WHR	BMIz	ABSIz	TMI	C-Index	WHR
Sex (Male)	-0.03 [-1.19,1.13]	0.39 [-0.66,1.45]	0.22 [-0.89,1.33]	0.36 [-0.69,1.42]	0.26 [-0.83,1.35]	0.16 [-0.48,0.81]	0.68 [-0.04,1.39]	0.79* [0.13,1.45]	0.52 [-0.18,1.22]	0.46 [-0.15,1.07]
Age (years)	0.96* [0.13,1.80]	0.71 [-0.09,1.51]	0.73 [-0.08,1.53]	0.69 [-0.11,1.49]	0.66 [-0.13,1.46]	0.29*** [0.18,0.41]	0.27*** [0.15,0.39]	0.23*** [0.11,0.35]	0.26*** [0.14,0.38]	0.25*** [0.13,0.36]
BMI z-score (CDC)	3.34** [1.08,5.59]					2.55*** [1.37,3.73]				
ABSI z-score		-0.19 [-0.72,0.34]					-0.35 [-0.75,0.05]			
Total mass index			0.27 [-0.02,0.56]					0.19*** [0.08,0.31]		
C-index				0.85 [-6.46,8.16]					-1.44 [-6.66,3.77]	
Waist-to-Height ratio					7.15 [-4.12,18.43]					5.07 [-0.76,10.89]
Constant	-17.02** [-27.46,-6.58]	-7.47* [-14.71,-0.24]	-12.66* [-22.52,-2.80]	-8.48 [-20.56,3.60]	-11.40* [-21.85,-0.95]	-11.30*** [-14.33,-8.26]	-5.79*** [-7.85,-3.74]	-9.03*** [-11.76,-6.30]	-3.81 [-9.89,2.27]	-8.39*** [-11.81,-4.97]
Observations	84	84	84	84	84	319	319	319	319	319
Pseudo R ²	0.124	0.042	0.073	0.038	0.054	0.138	0.090	0.109	0.077	0.087
AIC	93	101	98	101	99	269	283	277	287	284

	Female ≥10y					Male ≥10y				
	BMIz	ABSIz	TMI	C-Index	WHR	BMIz	ABSIz	TMI	C-Index	WHR
Age (years)	0.21** [0.05,0.37]	0.14 [-0.01,0.29]	0.06 [-0.10,0.22]	0.14 [-0.01,0.29]	0.11 [-0.05,0.27]	0.40*** [0.21,0.59]	0.43*** [0.24,0.62]	0.40*** [0.21,0.59]	0.39*** [0.20,0.58]	0.39*** [0.20,0.58]
BMI z-score (CDC)	3.08*** [1.26,4.90]					2.05** [0.50,3.61]				
ABSI z-score		-0.15 [-0.70,0.41]					-0.62* [-1.14,-0.09]			
Total mass index			0.22** [0.05,0.38]					0.24** [0.08,0.40]		
C-index				0.84 [-6.41,8.09]					-4.07 [-10.56,2.42]	
Waist-to-Height ratio					7.11 [-1.06,15.28]					4.56 [-3.46,12.59]
Constant	-11.17*** [-16.24,-6.10]	-3.81** [-6.15,-1.47]	-7.02*** [-10.32,-3.72]	-4.82 [-13.16,3.51]	-7.53*** [-12.01,-3.06]	-11.65*** [-15.56,-7.73]	-7.44*** [-10.44,-4.44]	-11.84*** [-15.97,-7.71]	-1.99 [-10.72,6.74]	-9.84*** [-15.16,-4.53]
Observations	169	169	169	169	169	150	150	150	150	150
Pseudo R ²	0.099	0.025	0.067	0.023	0.046	0.186	0.182	0.187	0.151	0.149
AIC	137	147	141	148	144	133	133	132	138	138

Values are regression coefficients and 95% confidence intervals obtained from logistic regression models adjusted for sex and age

Abbreviations:

*p<0.05 **p<0.01 ***p<0.001

Table 1S: Association of anthropometric indexes with the risk of impaired fasting glucose

	Children <10y					Children ≥10y				
	BMIz	ABSIz	TMI	C-Index	WHR	BMIz	ABSIz	TMI	C-Index	WHR
Sex (Male)	-0.65 [-2.69,1.40]	-0.46 [-2.74,1.82]	-0.58 [-2.81,1.65]	-0.43 [-2.46,1.60]	-0.50 [-2.43,1.42]	0.68 [-0.13,1.49]	0.85 [-0.02,1.72]	0.63 [-0.21,1.48]	0.88 [-0.00,1.77]	0.70 [-0.11,1.50]
Age (years)	0.04 [-0.74,0.82]	0.00 [-0.74,0.75]	-0.02 [-0.75,0.70]	0.01 [-0.78,0.81]	-0.03 [-0.78,0.73]	0.21** [0.06,0.37]	0.22** [0.07,0.37]	0.22** [0.08,0.37]	0.22** [0.06,0.37]	0.23** [0.08,0.37]
BMI z-score (CDC)	1.10 [-2.37,4.57]					0.22 [-1.18,1.62]				
ABSI z-score		-0.31 [-1.44,0.82]					-0.22 [-0.69,0.25]			
Total mass index			0.13 [-0.32,0.57]					-0.04 [-0.20,0.11]		
C-index				-2.67 [-22.15,16.81]					-3.44 [-9.78,2.91]	
Waist-to-Height ratio					1.18 [-25.98,28.35]					-3.94 [-11.34,3.47]
Constant	-5.54 [-17.91,6.82]	-2.72 [-9.26,3.83]	-4.94 [-17.35,7.48]	0.40 [-23.22,24.01]	-3.32 [-20.00,13.35]	-6.29** [-10.53,-2.04]	-5.96*** [-8.46,-3.46]	-5.13* [-9.18,-1.07]	-1.69 [-9.99,6.62]	-3.71 [-8.90,1.49]
Observations	84	84	84	84	84	319	319	319	319	319
Pseudo R ²	0.013	0.014	0.011	0.009	0.006	0.057	0.062	0.058	0.063	0.062
AIC	40	40	40	40	40	191	190	191	190	190

	Female ≥10y					Male ≥10y				
	BMIz	ABSIz	TMI	C-Index	WHR	BMIz	ABSIz	TMI	C-Index	WHR
Age (years)	0.15 [-0.10,0.39]	0.15 [-0.09,0.39]	0.16 [-0.06,0.38]	0.15 [-0.09,0.39]	0.17 [-0.05,0.39]	0.26* [0.06,0.46]	0.27** [0.07,0.47]	0.26** [0.07,0.46]	0.26* [0.06,0.46]	0.27** [0.07,0.47]
BMI z-score (CDC)	-0.25 [-2.46,1.95]					0.35 [-1.44,2.13]				
ABSI z-score		-0.22 [-0.94,0.50]					-0.23 [-0.86,0.39]			
Total mass index			-0.02 [-0.24,0.20]					-0.04 [-0.26,0.18]		
C-index				-2.66 [-11.96,6.64]					-3.93 [-12.48,4.62]	
Waist-to-Height ratio					-3.06 [-12.82,6.71]					-4.09 [-14.82,6.63]
Constant	-4.29 [-11.16,2.59]	-4.90** [-8.55,-1.25]	-4.56 [-10.12,0.99]	-1.65 [-14.07,10.77]	-3.33 [-10.50,3.84]	-6.57* [-11.96,-1.17]	-5.90*** [-9.00,-2.79]	-5.18 [-10.56,0.20]	-0.89 [-12.48,10.70]	-3.54 [-10.88,3.81]
Observations	169	169	169	169	169	150	150	150	150	150
Pseudo R ²	0.021	0.026	0.021	0.025	0.024	0.064	0.069	0.064	0.072	0.068
AIC	86	85	86	85	85	109	109	109	108	109

Values are regression coefficients and 95% confidence intervals obtained from logistic regression models adjusted for sex and age

Abbreviations:

*p<0.05 **p<0.01 ***p<0.001

Table 1S: Association of anthropometric indexes with the risk of high triglycerides

	Children <10y					Children ≥10y				
	BMIz	ABSIz	TMI	C-Index	WHR	BMIz	ABSIz	TMI	C-Index	WHR
Sex (Male)	0.07 [-0.93,1.06]	0.05 [-0.92,1.01]	0.12 [-0.86,1.10]	0.01 [-0.96,0.98]	0.06 [-0.92,1.03]	0.18 [-0.46,0.82]	-0.05 [-0.72,0.62]	0.40 [-0.28,1.07]	-0.16 [-0.85,0.52]	0.29 [-0.36,0.94]
Age (years)	0.52 [-0.19,1.22]	0.51 [-0.22,1.24]	0.52 [-0.23,1.28]	0.49 [-0.23,1.20]	0.52 [-0.21,1.24]	0.03 [-0.11,0.16]	0.02 [-0.11,0.15]	0.01 [-0.13,0.14]	0.03 [-0.10,0.16]	-0.01 [-0.14,0.13]
BMI z-score (CDC)	-0.06 [-2.16,2.05]					1.17 [-0.04,2.38]				
ABSI z-score	0.21 [-0.29,0.71]					0.67*** [0.29,1.04]				
Total mass index	-0.10 [-0.42,0.23]					0.07 [-0.05,0.19]				
C-index	2.91 [-4.08,9.89]					10.61*** [4.92,16.31]				
Waist-to-Height ratio	0.11 [-9.86,10.09]					9.34** [3.69,15.00]				
Constant	-5.06 [-12.53,2.40]	-5.25 [-11.79,1.28]	-3.51 [-11.15,4.14]	-8.62 [-19.00,1.77]	-5.27 [-13.00,2.46]	-4.70** [-7.98,-1.41]	-2.28* [-4.22,-0.34]	-3.47* [-6.41,-0.53]	-15.52*** [-22.90,-8.14]	-7.51*** [-11.24,-3.77]
Observations	84	84	84	84	84	319	319	319	319	319
Pseudo R ²	0.020	0.026	0.024	0.026	0.020	0.018	0.056	0.008	0.070	0.043
AIC	116	116	116	116	116	263	253	265	249	256

	Female ≥10y					Male ≥10y				
	BMIz	ABSIz	TMI	C-Index	WHR	BMIz	ABSIz	TMI	C-Index	WHR
Age (years)	-0.05 [-0.26,0.15]	-0.03 [-0.23,0.17]	-0.08 [-0.30,0.14]	-0.04 [-0.24,0.16]	-0.11 [-0.32,0.10]	0.09 [-0.09,0.26]	0.08 [-0.10,0.26]	0.09 [-0.08,0.27]	0.09 [-0.08,0.27]	0.09 [-0.08,0.27]
BMI z-score (CDC)	0.57 [-1.43,2.56]					1.46 [-0.05,2.97]				
ABSI z-score	0.81** [0.28,1.34]					0.46 [-0.04,0.96]				
Total mass index	0.05 [-0.13,0.23]					0.13 [-0.04,0.30]				
C-index	11.75** [4.29,19.21]					8.80* [0.23,17.38]				
Waist-to-Height ratio	10.15* [1.97,18.33]					9.69* [1.49,17.89]				
Constant	-2.38 [-7.57,2.80]	-1.64 [-4.49,1.22]	-1.82 [-5.49,1.84]	-16.02** [-25.91,-6.14]	-6.51** [-11.34,-1.67]	-6.01** [-10.22,-1.79]	-3.05* [-5.69,-0.41]	-5.43* [-9.96,-0.90]	-14.33* [-25.58,-3.08]	-8.84** [-14.70,-2.97]
Observations	169	169	169	169	169	150	150	150	150	150
Pseudo R ²	0.006	0.088	0.005	0.098	0.051	0.034	0.032	0.024	0.048	0.049
AIC	132	122	132	120	126	133	134	135	132	131

Values are regression coefficients and 95% confidence intervals obtained from logistic regression models adjusted for sex and age

Abbreviations:

*p<0.05 **p<0.01 ***p<0.001

Table 1S: Association of anthropometric indexes with the risk of low HDL cholesterol

	Children <10y					Children ≥10y				
	BMIz	ABSIz	TMI	C-Index	WHR	BMIz	ABSIz	TMI	C-Index	WHR
Sex (Male)	-0.37 [-1.54,0.81]	-0.07 [-1.18,1.04]	-0.27 [-1.37,0.84]	-0.15 [-1.26,0.96]	-0.29 [-1.37,0.80]	-0.22 [-0.70,0.27]	-0.32 [-0.85,0.21]	-0.19 [-0.73,0.35]	-0.37 [-0.91,0.16]	-0.21 [-0.71,0.28]
Age (years)	0.04 [-0.67,0.74]	-0.10 [-0.88,0.68]	-0.08 [-0.79,0.62]	-0.15 [-0.94,0.63]	-0.16 [-0.91,0.59]	0.06 [-0.03,0.15]	0.06 [-0.03,0.15]	0.06 [-0.04,0.15]	0.06 [-0.03,0.15]	0.05 [-0.04,0.14]
BMI z-score (CDC)	1.95 [-0.70,4.59]					0.12 [-0.86,1.09]				
ABSI z-score		0.14 [-0.49,0.77]					0.19 [-0.09,0.47]			
Total mass index			0.24 [-0.09,0.57]					0.01 [-0.10,0.12]		
C-index				4.71 [-4.00,13.41]					3.36 [-0.62,7.33]	
Waist-to-Height ratio					9.96 [-2.79,22.70]					2.94 [-1.90,7.77]
Constant	-5.76 [-14.77,3.26]	-0.44 [-7.39,6.52]	-4.85 [-13.44,3.73]	-5.89 [-18.12,6.35]	-5.74 [-14.62,3.15]	-1.95 [-4.37,0.47]	-1.69* [-3.04,-0.33]	-1.90 [-4.24,0.43]	-5.86* [-10.96,-0.77]	-3.32* [-6.31,-0.33]
Observations	84	84	84	84	84	319	319	319	319	319
Pseudo R ²	0.033	0.003	0.029	0.014	0.031	0.006	0.011	0.006	0.015	0.010
AIC	92	95	93	94	93	385	383	385	382	384

	Female ≥10y					Male ≥10y				
	BMIz	ABSIz	TMI	C-Index	WHR	BMIz	ABSIz	TMI	C-Index	WHR
Age (years)	0.07 [-0.07,0.20]	0.10 [-0.04,0.23]	0.13 [-0.01,0.27]	0.09 [-0.04,0.22]	0.09 [-0.05,0.22]	0.02 [-0.11,0.15]	0.03 [-0.10,0.15]	0.03 [-0.10,0.15]	0.03 [-0.10,0.15]	0.02 [-0.10,0.15]
BMI z-score (CDC)	-1.41 [-2.85,0.03]					1.45* [0.07,2.83]				
ABSI z-score		0.32 [-0.05,0.69]					0.01 [-0.42,0.45]			
Total mass index			-0.12 [-0.27,0.04]					0.15 [-0.01,0.30]		
C-index				3.71 [-1.22,8.65]					2.85 [-3.96,9.65]	
Waist-to-Height ratio					-0.03 [-6.04,5.99]					6.62 [-1.11,14.36]
Constant	1.03 [-2.65,4.70]	-2.19* [-4.12,-0.26]	-0.38 [-3.38,2.62]	-6.70* [-13.24,-0.16]	-2.07 [-5.79,1.65]	-4.38** [-7.61,-1.14]	-1.42 [-3.22,0.39]	-4.14* [-7.37,-0.91]	-5.06 [-13.75,3.63]	-5.35* [-10.11,-0.60]
Observations	169	169	169	169	169	150	150	150	150	150
Pseudo R ²	0.026	0.025	0.021	0.021	0.009	0.028	0.001	0.021	0.006	0.021
AIC	208	208	209	209	211	173	178	174	177	174

Values are regression coefficients and 95% confidence intervals obtained from logistic regression models adjusted for sex and age

Abbreviations:

*p<0.05 **p<0.01 ***p<0.001