

Table 4 Area under the receiver operating characteristic curve of anthropometric indices to determine overweight and obesity, based on body mass index level, in Iranian students aged 12–14 years

Anthropometric indices		Overweight			Obesity		
		Girls	Boys	Total	Girls	Boys	Total
Waist circumference	AUC	0.83	0.87	0.85	0.85	0.91	0.88
	95% CI	0.80–0.86	0.84–0.89	0.83–0.87	0.81–0.90	0.87–0.95	0.86–0.91
Waist-to-hip ratio	AUC	0.62	0.67	0.64	0.63	0.74	0.69
	95% CI	0.59–0.66	0.63–0.71	0.61–0.66	0.57–0.69	0.69–0.79	0.65–0.73
Waist-to-height ratio	AUC	0.85	0.87	0.86	0.87	0.91	0.89
	95% CI	0.82–0.88	0.85–0.90	0.84–0.88	0.83–0.91	0.88–0.95	0.87–0.92
Neck circumference	AUC	0.84	0.82	0.83	0.87	0.87	0.87
	95% CI	0.82–0.86	0.80–0.85	0.81–0.85	0.84–0.90	0.83–0.90	0.85–0.89

AUC = area under curve; CI = confidence interval.