Optimal Sensitivity Specificity Optimal threshold threshold

WC

0.98

0.96

0.82

0.83

0.63

0.80

0.94

1.00

0.82

0.88

WC = waist circumference; WHpR = waist-to-height ratio; WHtR = waist-to-hipratio; NC = neck circumference.

0.80

0.91

0.80

0.91

0.59

0.56

0.89

0.94

0.76

0.85

0.91

0.92

0.87

0.84

0.81

0.84

0.87

0.88

0.88

0.88

students aged 12-14 years

Ethnicity

Overweight

Sistani and Baluchi
Overweight

Obesity

Obesity

Obesity

Obesity

Total sample Overweight

Obesity

Turkman

Overweight

Overweight

Turkish

Table 5 Proposed cut-off points based on the highest sensitivity and specificity values of anthropometric indices to classify overweight and obesity, based on body mass index level, in male

Specificity

0.64

0.74

0.74

0.81

0.65

0.50

0.32

0.50

0.75

0.76

0.69

0.69

Optimal

threshold

0.46

0.49

0.49

0.53

0.48

0.50

0.46

0.46

0.47

0.50

0.46

0.49

WHtR

Sensitivity

0.9.

0.94

0.91

0.96

0.88

0.83

0.65

0.80

0.90

0.96

0.84

0.88

Specificity

0.87

0.93

0.92

0.91

0.89

0.93

0.66

0.63

0.88

0.89

0.81

0.87

NC

Sensitivity

0.61

0.83

0.89

1.00

0.88

1.00

0.65

0.73

0.98

0.96

0.85

0.87

Specificity

0.80

0.88

0.70

0.77

0.83

0.91

0.60

0.55

0.57

0.65

0.61

0.71

Optimal

th reshold

30.75

31.75

31.75

3275

31.75

32.80

31.50

31.50

30.95

314

30.95

31-55

WHpR

Sensitivity

0.75

0.71

0.75

0.86

0.71

0.67

0.61

0.77

0.79

0.82

0.60

0.70

Arab				
Overweight	69.85	0.81	0.80	0.83
Obesity	77.30	0.94	0.95	0.86
Kurdish				

75.20

85.50

72-5

78.50

72.50

72.50

75.55

82.50

72.75

77-55