

## Supplemental material

**Table S1** The odd ratios (OR) of one unit increment of NAFLD-related indexes for mild, moderate and severe NAFLD.

Models	Mild NAFLD		Moderate NAFLD		Severe NAFLD	
	OR (95%CI) <sup>a</sup>	Adjusted OR (95%CI) <sup>a, b</sup>	OR (95%CI) <sup>a</sup>	Adjusted OR (95%CI) <sup>a, b</sup>	OR (95%CI) <sup>a</sup>	Adjusted OR (95%CI) <sup>a, b</sup>
FLI	1.06 (1.05, 1.07)	1.04 (1.03, 1.05)	1.09 (1.08, 1.10)	1.08 (1.07, 1.10)	1.10(1.09, 1.12)	1.09 (1.07, 1.11)
FLD	1.42 (1.38, 1.47)	1.50 (1.41, 1.60)	1.74 (1.66, 1.81)	2.10 (1.94, 2.29)	1.87 (1.76, 2.00)	2.15 (1.93, 2.41)
ZJU	1.42 (1.38, 1.46)	1.44 (1.36, 1.52)	1.73 (1.66, 1.81)	1.85 (1.72, 1.99)	1.85 (1.74, 1.97)	1.89 (1.72, 2.07)
LAP	1.05 (1.05, 1.06)	1.03 (1.02, 1.03)	1.07 (1.06, 1.07)	1.04 (1.03, 1.05)	1.07 (1.06, 1.07)	1.04 (1.03, 1.05)
CAP	1.07 (1.06, 1.07)	1.09 (1.06, 1.12)	1.10 (1.09, 1.11)	1.23 (1.19, 1.27)	1.12(1.11, 1.13)	1.24 (1.19, 1.30)
WHtR	1.27 (1.24, 1.30)	1.10 (1.07, 1.14)	1.41 (1.36, 1.45)	1.19 (1.14, 1.25)	1.56 (1.47, 1.65)	1.29 (1.20, 1.39)
TyG	5.96 (5.01, 7.08)	3.68 (3.02, 4.47)	12.56 (9.90, 15.92)	8.65 (6.60, 11.35)	14.62 (10.23, 20.88)	9.59 (6.37, 14.45)
VAI	1.95 (1.81, 2.11)	1.51 (1.40, 1.63)	2.24 (2.06, 2.44)	1.72 (1.58, 1.87)	2.29 (2.09,2.50)	1.76 (1.60, 1.92)

<sup>a</sup> all  $P < 0.001$ ; <sup>b</sup> adjusted for sex, age and BMI.

Abbreviations: OR, odd ratio; NAFLD, nonalcoholic fatty liver disease; FLI, fatty liver index; FLD, fatty liver disease index; ZJU, Zhejiang University index; TyG, triglyceride and glucose index; CAP, controlled attenuation parameter; LAP, lipid accumulation product; WHtR, waist-to-height ratio; VAI, visceral adiposity index.

**Table S2** Cut-off values and diagnostic accuracy of FLI and FLD in total, male and female population

Model	Total			Male			Female		
	Cut-off	Sensitivity (%)	Specificity (%)	Cut-off	Sensitivity (%)	Specificity (%)	Cut-off	Sensitivity (%)	Specificity (%)
FLI	13.5	90.0	60.6	16.5	90.0	55.1	7.3	90.0	73.7
	37.6	54.3	90.0	45.8	48.0	90.0	14.1	65.0	90.0
FLD	27.2	90.0	38.6	27.6	90.0	53.6	26.0	90.0	73.5
	30.9	54.8	90.0	31.6	50.1	90.0	27.9	66.3	90.0

Abbreviations: FLI, fatty liver index; FLD, fatty liver disease index.