

Osteocalcin and Chinese visceral adiposity index are associated with the risk of ASCVD and arterial stiffness in patients with T2DM

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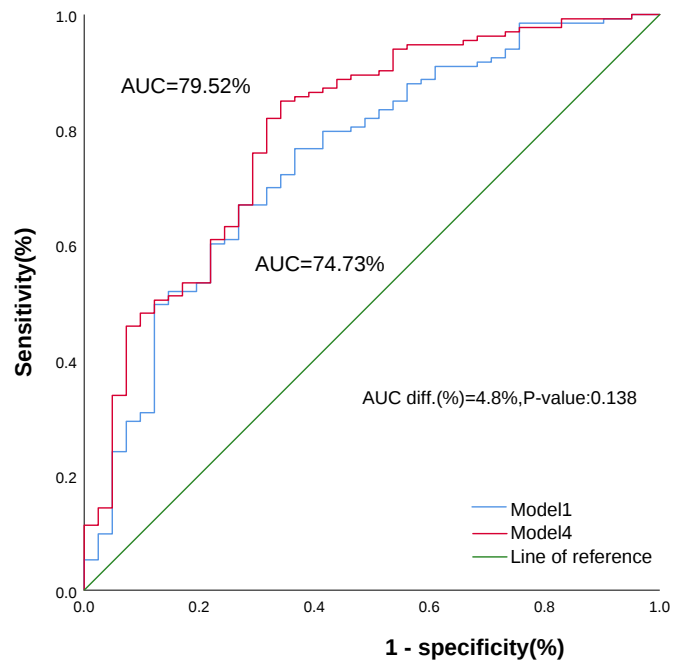
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Supplementary Figure 1 : Prediction value of osteocalcin and CVAI for arterial stiffness in women with T2DM. OC: osteocalcin; CVAI: China visceral adiposity index. Model 1 : Controlling menopause status, HOMA- β , hypertension, creatinine, eGFR; Model 4: Model 1+ osteocalcin + CVAI.

Supplementary Table 1: General characteristics in women with T2DM

Variable	Premenopause (n=15)	Postmenopause(n=199)	P value
Osteocalcin	12.6(10.4, 16.68)	14.9(10.98, 19.43))	0.125
CAVI	98.25(57.58, 116.09)	119.12(105.89, 139.14)	0.001
ABI	1.15(1.05, 1.19)	1.17(1.11, 1.22)	0.397
baPWV	1408.00(1253.00,1603.00)	1845.00(1675.00, 2168.75)	0
10-year medium-high risk of ASCVD, n (%)	6 (40)	191 (95.98)	0

Supplementary Table 2: General characteristics in 10-year ASCVD medium-high-risk women with T2DM

Variable	premenopause	postmenopause	P value
TyG index	2.89(2.64, 3.14)	1.91(1.41, 2.28)	0.006
ba PWV	1470.00(1419.50, 1645.00)	1830.50(1675.75, 2178.50)	0.004
eGFR	143.10(126.13, 160.68)	82.40(69.43, 98.20)	0

Supplementary Table 3: ROC curves analyze the recognition ability of osteocalcin and CVAI for arterial stiffness

	Model	AUC			Calibrability [‡]	Accuracy(%) [‡]
		Discrimination(%)	AUC diff.(%)	Pvalue		
Male	Model 1 ¹	81.61			0.95	81
	Model 2 ¹	82.05			0.424	81
	Model 3 ¹	82.57			0.613	80.5
	Model 4 ¹	83.05			0.58	81.6
	Model 4 ¹ vs Model 1 ¹		1.400	0.044		
Female	Model 1 ²	74.73			0.198	76.1
	Model 2 ²	78.64			0.139	77.9
	Model 3 ²	77.61			0.381	77.2
	Model 4 ²	79.52			0.136	77.7
	Model 4 ² vs Model 1 ²		4.8	0.138		

OC: osteocalcin; CVAI: China visceral adiposity index. Model 1¹: Controlling LDL, TG, hypertension, antihypertensive therapy, diabetes duration, eGFR, current smoking, leukocyte counts; Model 1²: Controlling menopause status, HOMA- β , hypertension, creatinine, eGFR; Model 2: Model 1+ osteocalcin; Model 3: Model 1+ CVAI; Model 4: Model 1+ osteocalcin + CVAI. ‡Hosmer-Lemeshow good of fit test;

^b Percentage accuracy in classification.