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Carotid intima-media thickness in patients with type 2 diabetes and the metabolic syndrome related factors

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Objective: To evaluate the relationship between carotid intima-media thickness (IMT) and metabolic syndrome (MS) with its components in type 2 diabetes mellitus (T2DM) patients.

Methods: A random cluster sampling was conducted in 1884 employees of T2DM. All the subjects were divided into 2 groups according to the IMT levels, control group: IMT<0.90 mm (n=1083) and IMT increased group: IMT 0.90 mm (n=801). e risk factors of metabolic syndrome (MS) in T2DM subjects with IMT were investigated.

Results: Compared with the control group, age, BMI, duration of diabetes mellitus, waist circumference (WC), hip circumference (Hip), SBP (systolic blood pressure), LDL and lnCRP (log C-reactive protein, lnCRP) were signi cantly higher in the IMT increased group (p<0.05). Multifactor logistic regression analysis demonstrated that age 40 years, Duration 10 years, BMI 24 kg/m2, WC 95 cm, Hip 101 cm, LDL 3.31 mmol/L, lnCRP 2.34 mg/L and hypertension (HTN) were independent risk factors of the IMT thickening in T2DM patients. Clustering analysis revealed that several metabolic syndrome (MS) components have a signi cant correlation with di erent levels of IMT and there is a dose-ressigni .9 (nit(a)-5(a)-0i/. p4(umf1,,/3sT a)9)(s (Ih19 (t)-5 /J9 (n)4vi T)rhsfNumf1,,/3sT as (Ih19 (t)-5 /J9 (n)4vi T)rhsfNumf1, (t)-5 /J9 (n)4v

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