

Visceral/subcutaneous fat ratio predicts CVD in T2DM

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(HealthDay)—For patients with type 2 diabetes, the ratio of visceral fat

area (VFA) to subcutaneous fat area (SFA) (V/S ratio) is predictive of cardiovascular disease (CVD), according to a study published online July 7 in the *Journal of Diabetes Investigation*.

Tatsuya Fukuda, from the Tokyo Medical and Dental University, and colleagues enrolled 682 [patients](#) with type 2 [diabetes](#) and used dual bioelectrical impedance analyzer (BIA) to assess VFA and SFA. The authors divided the patients into groups according to quartiles of V/S ratio.

The researchers found that 21 of the patients reached the study end point of first occurrence or recurrence of CVD over a median follow-up of 2.5 years. There was an increase in the number of patients who reached the end point with increasing V/S ratio quartiles. There was a significant association for V/S ratio with incident or recurrent CVD (hazard ratio, 1.82) after adjustment for estimated [glomerular filtration rate](#) (eGFR), brain-type natriuretic peptide (BNP), use of antiplatelet agents, coefficient of variation of R-R intervals, and hemoglobin A1c (HbA1c). Using net reclassification improvement (NRI) and the integrated discrimination improvement (IDI), the addition of V/S ratio to age, eGFR, BNP, antiplatelet agents, and HbA1c significantly improved classification performance for CVD (NRI: 0.60; IDI: 0.02).

"V/S ratio measured by dual BIA is an independent predictor of CVD in patients with type 2 diabetes," the authors write.

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