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TITLE: Independent association of visceral adiposity index and cardiorespiratory fitness with clustered cardiovascular disease risk in youth

Name: Danladi Musa
Affiliation: Professor at Kogi State University
Country: Nigeria

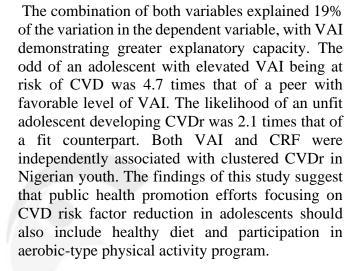
Email ID: musa.d@ksu.edu.ng

ABSTRACT (upto 300 words)

This study examined the independent associations visceral adiposity index (VAI) cardiorespiratory fitness (CRF) with clustered cardiovascular disease risk CVDr) among Nigerian youth. A cross-sectional sample of 403 adolescent (202 boys) aged 11-19 years from selected secondary schools in Kogi East, North Central Nigeria participated in the project. Participants were evaluated for VAI, CRF and CVDr. A clustered CVDr score was constructed from the standardized residuals of high-density lipoprotein cholesterol (HDL-C), low density lipoprotein cholesterol (LDL-C), total cholesterol (TCL), triglycerides (TG), systolic blood pressure (SBP), and diastolic blood pressure (DBP). Regression models controlling for sex, age and maturity status assessed the association of VAI and CRF with clustered CVDr. Fitness was negatively related to the dependent variable ($\beta = -0.268$, P < 0.001) and VAI was positively associated with CVDr (β = 0.379, P<0.001). With additional adjustment of either CRF or VAI, the independent association with the dependent variable persisted. After controlling for all the variables in the model VAI and CRF were significantly associated with CVDr (*P*<0.001).

Presenter Name: Danladi Musa. **Mode of Presentation:** Oral.

Contact number: +234 8033439322



BIOGRAPHY (upto 200 words)

Musa earned his Ph.D. from Obafemi Awolowo University, Nigeria. He is the Coordinator, Human Performance Laboratory, Department of Human Kinetics and Health Education; and Director of Quality Assurance, Kogi State University, Nigeria. He has over 100 publications that have been cited about 500 times, and his publication h-index is 10. He has been serving as an editorial board member of several reputed journals. His area of research interest is Physical activity and pediatric health.



