

Document details

< Back to results | < Previous 2 of 13 Next >

Export Download Print E-mail Save to PDF Add to List More... >

View at Publisher

Clinical Nursing Research
Volume 28, Issues 2-3, February 2019, Pages 202-216

Association Between Body Mass Index and Cardiometabolic Risks Among Malay Obese Adults (Article)

Daud, A. ✉, Shahadan, S.Z. 👤

International Islamic University Malaysia, Kuantan, Pahang, Malaysia

Abstract

View references (35)

Cardiometabolic risk (CMR) is a cluster of risk factors that may predict the occurrence of cardiovascular diseases and diabetes mellitus. This study investigated the association between CMR with body mass index (BMI) among obese adults. The CMRs, including waist circumference, systolic and diastolic blood pressure, blood glucose, total cholesterol, low-density and high-density lipoprotein, triglyceride, and high-sensitivity C-reactive protein (hs-CRP) level, were quantified in 82 obese adults. The findings indicate the highest correlation coefficient value (r) was .618 between BMI and waist circumference; a weak correlation between mass index and systolic ($r = .276$) and diastolic ($r = .311$) blood pressure and hs-CRP ($r = .384$); and a very weak correlation between BMI level and fasting blood glucose ($r = .069$), total cholesterol ($r = .014$), low-density lipoprotein (.013), high-density lipoprotein (-.154), and triglyceride (.173). Future strategies for CMR reduction among obese adults should focus on waist circumference and hs-CRP level. © The Author(s) 2017.

SciVal Topic Prominence ⓘ

Topic: Malaysia | Obesity | mass index

Prominence percentile: 70.326 ⓘ

Author keywords

body mass index cardiometabolic risk obesity

Funding details

Funding sponsor	Funding number	Acronym
International Islamic University Malaysia		IIUM
International Islamic University Malaysia		IIUM
Rigshospitalet		

Funding text

The author(s) disclosed receipt of the following financial support for the research, authorship, and/or publication of this article: The research has been funded by the Research Initiative Grant Scheme (RIGS) from the International Islamic University Malaysia. Ms. Siti Zuhaidah received PhD scholarship funding from the Ministry of Higher Education and the International Islamic University Malaysia under academic trainee scheme.

Metrics ⓘ View all metrics >

1 Citation in Scopus

14.59 Field-Weighted Citation Impact



PlumX Metrics

Usage, Captures, Mentions, Social Media and Citations beyond Scopus.

Cited by 1 document

Special Issue: Nursing Research Advancing Cardiac Care

Cacchione, P.Z. (2019) *Clinical Nursing Research*

View details of this citation

Inform me when this document is cited in Scopus:

Set citation alert >

Set citation feed >

Related documents

Abdominal obesity and high-sensitivity C-reactive protein level among Malay obese adults in Kuantan, Malaysia

Shahadan, S.Z. , Daud, A. , Md. Isa, M.L. (2018) *International Medical Journal Malaysia*

Utilization of Complementary and Alternative Medicine in Multiethnic Population: The Malaysian Cohort Study



Abdullah, N. , Borhanuddin, B. , Patah, A.E.A. (2018) *Journal of Evidence-Based Integrative Medicine*

Are Malaysians getting fatter and rounder?: An updated systematic review (2009 – 2015)

References (35)

[View in search results format >](#)

[View all related documents based on references](#)

All [Export](#)  [Print](#)  [E-mail](#) [Save to PDF](#) [Create bibliography](#)

[Find more related documents in Scopus based on:](#)

[Authors >](#) [Keywords >](#)

- 1 Al-Qalah, S.A.A.J., Ghazi, H.F., Isa, Z.M., Karim, N.A.
Weight loss practice using physical activity among working women in Klang Valley, Malaysia
(2014) Malaysian Journal of Public Health Medicine, 14 (3), pp. 81-87. Cited 2 times.
<http://www.mjphm.org.my/mjphm/>

- 2 Aniza, I., Hayati, K., Juhaida, M.N., Ahmad Taufik, J., Idayu Badilla, I., Khalib, L.
Obesity related hypertension - gender specific analysis among adults in Tanjung Karang, Selangor, Malaysia
(2015) Malaysian Journal of Public Health Medicine, 15 (1), pp. 41-52. Cited 2 times.
<http://www.mjphm.org.my/mjphm/>

- 3 Cefalu, W.T.
Classification and evolution of increased cardiometabolic risk states
(2007) Atlas of cardiometabolic risk, pp. 13-26. Cited 2 times.
Cefalu W.T., Cannon C.P., (eds), New York, NY, Informa Healthcare, (, a), (Eds.), (, -

- 4 Cefalu, W.T.
Insulin resistance and cradiometabolic risk
(2007) Atlas of cardiometabolic risk, 1, pp. 27-38.
Cefalu W.T., Cannon C.P., (eds), 1st ed, New York, NY, Informa Healthcare, (, b), (Eds.), (, , -

- 5 Cefalu, W.T.
Role of obesity and body fat distribution in cardiometabolic risks
(2007) Atlas of cardiometabolic risk, pp. 39-53.
Cefalu W.T., Cannon C.P., (eds), New York, NY, Informa Healthcare, (, c), (Eds.), (, -

- 6 Chang, C.T., Lee, P.Y., Cheah, W.L.
The prevalence of cardiovascular risk factors in the young and middle-aged rural population in Sarawak, Malaysia
(2012) Malaysian Journal of Medical Sciences, 19 (2), pp. 27-34. Cited 10 times.
<http://ernd.usm.my/journal/journal/OA23.pdf>
[View at Publisher](#)

- 7 Chen, C.-M., Yeh, M.C.
The prevalence and determinants of impaired fasting glucose in the population of Taiwan ([Open Access](#))
(2013) BMC Public Health, 13 (1), art. no. 1123. Cited 7 times.
doi: 10.1186/1471-2458-13-1123
[View at Publisher](#)