(HealthDay)—Having non-O blood group may be an independent risk factor for coronary artery disease (CAD) and myocardial infarction, according to a meta-analysis published in the Sept. 1 issue of The American Journal of Cardiology.

Hisato Takagi, M.D., Ph.D., and Takuya Umemoto, M.D., Ph.D., on behalf of the All-Literature Investigation of Cardiovascular Evidence Group, conducted a literature review (January 2001 to March 2015) to identify case-control, cross-sectional, or cohort studies reporting adjusted odds ratios (ORs) and hazard ratios (HRs) for CAD in subjects with non-O versus O blood group.

The researchers included 12 relative risk estimates in 10 eligible studies.
Based on pooled analysis, the non-O blood group was associated with a statistically significant 14 percent increase in CAD incidence compared to O blood group (OR/HR, 1.14). No evidence of significant publication bias was seen. When eight studies reporting data regarding (acute) myocardial infarction (MI) were pooled, similar statistically significant results unfavorable to the non-O blood group were seen (OR/HR, 1.16).

"In conclusion, we found that based on a meta-analysis of 10 studies enrolling a total of 174,945 participants, non-O blood group appears to be an independent risk factor for CAD and MI," the authors write.

More information: Abstract
Full Text (subscription or payment may be required)

Copyright © 2015 HealthDay. All rights reserved.

Citation: Non-O blood group tied to higher CAD, MI risk (2015, September 9) retrieved 24 August 2023 from https://medicalxpress.com/news/2015-09-non-o-blood-group-tied-higher.html

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.