

# Accepted Manuscript

Low HDL cholesterol and particle concentrations are associated with greater levels of endothelial activation markers in Multi-Ethnic Study of Atherosclerosis participants

Brian T. Steffen, Suzette J. Bielinski, Paul A. Decker, Cecilia Berardi, Nicholas B. Larson, James S. Pankow, Erin D. Michos, Naomi Q. Hanson, David M. Herrington, Michael Y. Tsai

PII: S1933-2874(17)30347-1

DOI: [10.1016/j.jacl.2017.05.018](https://doi.org/10.1016/j.jacl.2017.05.018)

Reference: JACL 1133

To appear in: *Journal of Clinical Lipidology*

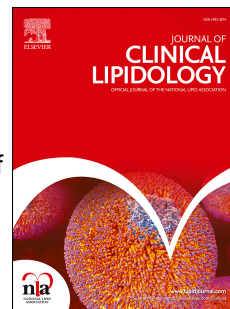
Received Date: 3 January 2017

Revised Date: 17 May 2017

Accepted Date: 28 May 2017

Please cite this article as: Steffen BT, Bielinski SJ, Decker PA, Berardi C, Larson NB, Pankow JS, Michos ED, Hanson NQ, Herrington DM, Tsai MY, Low HDL cholesterol and particle concentrations are associated with greater levels of endothelial activation markers in Multi-Ethnic Study of Atherosclerosis participants, *Journal of Clinical Lipidology* (2017), doi: 10.1016/j.jacl.2017.05.018.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



**Low HDL cholesterol and particle concentrations are associated with greater levels of endothelial activation markers in Multi-Ethnic Study of Atherosclerosis participants**

**Running Title: HDL and endothelial activation markers**

Brian T. Steffen<sup>1</sup>, Suzette J. Bielinski<sup>2</sup>, Paul A. Decker<sup>3</sup>, Cecilia Berardi<sup>2,4</sup>, Nicholas B. Larson<sup>3</sup>, James S. Pankow<sup>5</sup>, Erin D. Michos<sup>6</sup>, Naomi Q. Hanson<sup>1</sup>, David M. Herrington<sup>7</sup>, Michael Y. Tsai<sup>1</sup>

<sup>1</sup>Department of Laboratory Medicine and Pathology, University of Minnesota, Minneapolis, MN

<sup>2</sup>Division of Epidemiology, Department of Health Sciences Research, Mayo Clinic, Rochester, MN

<sup>3</sup>Division of Biomedical Statistics and Informatics, Department of Health Sciences Research, Mayo Clinic College of Medicine, Rochester, MN

<sup>4</sup>Department of Internal Medicine, Albert Einstein College of Medicine, Bronx, NY

<sup>5</sup>Division of Epidemiology and Community Health, School of Public Health, University of Minnesota, Minneapolis, MN

<sup>6</sup>Division of Cardiology, Johns Hopkins University School of Medicine, Baltimore, MD

<sup>7</sup>Heart and Vascular Center of Excellence, Wake Forest University School of Medicine, Winston-Salem, NC

**Corresponding Author:**

Dr. Michael Y. Tsai  
420 Delaware St. SE  
Mayo Mail Code 609  
Minneapolis, MN 55455-0392  
Phone: 612-626-3629  
Fax: 612-625-1121  
E-mail: [tsaix001@umn.edu](mailto:tsaix001@umn.edu)

**Target Journal:** *Journal of Clinical Lipidology*

Download English Version:

<https://daneshyari.com/en/article/5615236>

Download Persian Version:

<https://daneshyari.com/article/5615236>

[Daneshyari.com](https://daneshyari.com)