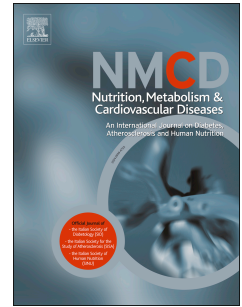


Accepted Manuscript

Metabolic syndrome associates with left atrial dysfunction

K. Nyman, M. Granér, M.O. Pentikäinen, J. Lundbom, A. Hakkarainen, R. Sirén, M.S. Nieminen, M.-R. Taskinen, N. Lundbom, K. Lauerma



PII: S0939-4753(18)30059-0

DOI: [10.1016/j.numecd.2018.02.008](https://doi.org/10.1016/j.numecd.2018.02.008)

Reference: NUMECD 1855

To appear in: *Nutrition, Metabolism and Cardiovascular Diseases*

Received Date: 6 October 2017

Revised Date: 5 February 2018

Accepted Date: 13 February 2018

Please cite this article as: Nyman K, Granér M, Pentikäinen M, Lundbom J, Hakkarainen A, Sirén R, Nieminen M, Taskinen M-R, Lundbom N, Lauerma K, Metabolic syndrome associates with left atrial dysfunction, *Nutrition, Metabolism and Cardiovascular Diseases* (2018), doi: 10.1016/j.numecd.2018.02.008.

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.

Metabolic syndrome associates with left atrial dysfunction

Nyman K^a, Granér M^{b,c}, Pentikäinen MO^b, Lundbom J^a, Hakkarainen A^a, Sirén R^d, Nieminen MS^b, Taskinen M-R^c, Lundbom N^a, Lauerma K^a

^aHUS Medical Imaging Center, Radiology, University of Helsinki and Helsinki University Hospital, Helsinki, Finland

^bHeart and Lung Center, Cardiology, Helsinki University Hospital, Helsinki, Finland

^cDiabetes and Obesity Research Program, Research Programs' Unit, University of Helsinki and Clinical Research Institute, HUCH Ltd, Helsinki, Finland

^dDepartment of General Practice and Primary Health Care, Health Care Centre of City of Helsinki and University of Helsinki, Helsinki, Finland

Corresponding author: Dr. Kristofer Nyman, HUS Medical Imaging Center, Helsinki University Hospital, P.O. Box 340, Haartmaninkatu 4, Helsinki, FI-00029 HUS, Finland; tel. +358 50 427 1226; fax +358 9 4717 4404; e-mail: kristofer.nyman@hus.fi.

Word counts:

Abstract: 230

Total (excl. abbreviations, references, declarations and tables): 4436

Number of references: 34

Figures: 1

Tables: 4

Download English Version:

<https://daneshyari.com/en/article/8674476>

Download Persian Version:

<https://daneshyari.com/article/8674476>

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