CORRECTION

Open Access

Correction: Adipose tissue specific CCL18 associates with cardiometabolic diseases in non-obese individuals implicating CD4⁺ T cells

Narmadha Subramanian¹, Kaisa Hofwimmer¹, Beatriz Tavira¹, Lucas Massier¹, Daniel P. Andersson¹, Peter Arner¹ and Jurga Laurencikiene^{1*}

Correction: Cardiovascular Diabetology (2023) 22:84 https://doi.org/10.1186/s12933-023-01803-w

This commentary highlights a few points that have come to the attention of the authors after the study was published and discussed with prof. Mikael Rydén, the head of the unit for Endocrinology, Department of Medicine Huddinge at Karolinska Institutet, where the study [1] was performed. Mikael Rydén is also a holder of the ethical permit for the clinical cohort 1 described in the study. We think that the information below can be important for the readers of Cardiovascular Diabetology and for future publications on this cohort.

• The cohort described in the paper (cohort 1) is a part of Swedish population-based SCAPIS cohort containing more than 30 000 individuals. In this cohort, coronary arteries were assessed as described in Bergström et al. (Circulation 2021;144:916–929). In the present study, patients with coronary atherosclerosis in 2 (not 7 as mistakenly stated) or more segments

The original article can be found online at https://doi.org/10.1186/s12933-023-01803-w.

*Correspondence:

Jurga Laurencikiene

jurga.laurencikiene@ki.se

¹ Lipid Laboratory, Unit of Endocrinology, Dept. of Medicine Huddinge, Karolinska Institutet, 141 86 Stockholm, Sweden were categorized as CVD. This will not change the results or the message of the study.

- In our study (cohort 1), we have divided patients into four categories; two of them including individuals with type 2 diabetes and two of them diabetes-free. We do not mention or discuss glucose intolerance in our study and regard Diabetes as a real disease and not glucose intolerance. However, we would like to clarify that two of the patients in the control group and two in the CVD group had values of oral glucose tolerance tests (OGTT) slightly above the control levels (highest being 8.4 mmol/L) (normal OGTT is below 7,8 mmol/L, Diabetes value is above 11 mmol/L) and one individual in a control group had impaired fasting glucose level of 6.7 mmol/l (according WHO, impaired fasting glucose levels are 6.1–6.9 mmol/l, diabetes levels are >7 mmol/l). When performing the study, we considered a "pathological value" of fasting glucose and oral glucose load as a diabetes value and anything below as a nondiabetic value, which is also stated in the text of the paper. Removing these patients from the analysis did not affect the conclusions reached by the study. However, after the concern was raised by prof. M. Rydén, we would like to note this information in the commentary.
- The statistical analysis is based on data obtained from a total of 63 individuals (as stated in the paper). These were included among the first participants enrolled in the study, that were matched for age and BMI



© The Author(s) 2023. **Open Access** This article is licensed under a Creative Commons Attribution 4.0 International License, which permits use, sharing, adaptation, distribution and reproduction in any medium or format, as long as you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons licence, and indicate if changes were made. The images or other third party material in this article are included in the article's Creative Commons licence, unless indicated otherwise in a credit line to the material. If material is not included in the article's Creative Commons licence and your intended use is not permitted by statutory regulation or exceeds the permitted use, you will need to obtain permission directly from the copyright holder. To view a copy of this licence, visit http://creativecommons.org/licenses/by/4//. The Creative Commons Public Domain Dedication waiver (http://creativecommons.org/publicdomain/zero/1.0/) applies to the data made available in this article, unless otherwise stated in a credit line to the data.

and had samples required for chosen analysis. Part of the major methodologies used in the paper (adipokine profiling and flow cytometry) are not feasible in larger cohorts, which was also appreciated by the reviewers. Recruitment of cohort 1 continued after our adipokine profiling was performed and includes almost 200 individuals collected by prof. M. Rydén. We are aware that measures available for the entire cohort might differ from those reported by us due to a stronger statistical power.

 Lastly, we would like to acknowledge prof. Mikael Rydén for providing valuable information and comments on the published study. In addition, we would like to acknowledge prof. Claes Frostell for unbiased evaluation of the ethical aspects of the study and a scientific advice.

Bergström et al. Circulation 2021;144:916-929.

Published online: 30 August 2023

Reference

 Subramanian N, Hofwimmer K, Tavira B, Massier L, Andersson DP, Arner P, Laurencikiene J. Adipose tissue specific CCL18 associates with cardiometabolic diseases in non-obese individuals implicating CD4+T cells. Cardiovasc Diabetol. 2023;22:84.

Publisher's Note

Springer Nature remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.

Ready to submit your research? Choose BMC and benefit from:

- fast, convenient online submission
- thorough peer review by experienced researchers in your field
- rapid publication on acceptance
- support for research data, including large and complex data types
- gold Open Access which fosters wider collaboration and increased citations
- maximum visibility for your research: over 100M website views per year

At BMC, research is always in progress.

Learn more biomedcentral.com/submissions

