



Since January 2020 Elsevier has created a COVID-19 resource centre with free information in English and Mandarin on the novel coronavirus COVID-19. The COVID-19 resource centre is hosted on Elsevier Connect, the company's public news and information website.

Elsevier hereby grants permission to make all its COVID-19-related research that is available on the COVID-19 resource centre - including this research content - immediately available in PubMed Central and other publicly funded repositories, such as the WHO COVID database with rights for unrestricted research re-use and analyses in any form or by any means with acknowledgement of the original source. These permissions are granted for free by Elsevier for as long as the COVID-19 resource centre remains active.

# Journal Pre-proof



TEMPORARY REMOVAL: Association between accelerometer-assessed physical activity and severity of COVID-19 in UK Biobank

Alex V. Rowlands, PhD, Paddy C. Dempsey, PhD, Clare Gillies, PhD, David E. Kloecker, MPhil, Cameron Razieh, PhD, Yogini Chudasama, PhD, Nazrul Islam, PhD, Francesco Zaccardi, PhD, Claire Lawson, PhD, Tom Norris, PhD, Melanie J. Davies, MD, Kamlesh Khunti, PhD, Tom Yates, PhD

PII: S2542-4548(21)00130-2

DOI: <https://doi.org/10.1016/j.mayocpiqo.2021.08.011>

Reference: PIQO 371

To appear in: *Mayo Clinic Proceedings: Innovations, Quality & Outcomes*

Received Date: 30 July 2021

Revised Date: 12 August 2021

Accepted Date: 13 August 2021

Please cite this article as: Rowlands AV, Dempsey PC, Gillies C, Kloecker DE, Razieh C, Chudasama Y, Islam N, Zaccardi F, Lawson C, Norris T, Davies MJ, Khunti K, Yates T, TEMPORARY REMOVAL: Association between accelerometer-assessed physical activity and severity of COVID-19 in UK Biobank, *Mayo Clinic Proceedings: Innovations, Quality & Outcomes* (2021), doi: <https://doi.org/10.1016/j.mayocpiqo.2021.08.011>.

This is a PDF file of an article that has undergone enhancements after acceptance, such as the addition of a cover page and metadata, and formatting for readability, but it is not yet the definitive version of record. This version will undergo additional copyediting, typesetting and review before it is published in its final form, but we are providing this version to give early visibility of the article. 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.

© YEAR THE AUTHORS. Published by Elsevier Inc on behalf of Mayo Foundation for Medical Education and Research.

1 **TEMPORARY REMOVAL: Association between accelerometer-**  
2 **assessed physical activity and severity of COVID-19 in UK Biobank**

3 Alex V. Rowlands PhD<sup>1,2</sup>, Paddy C. Dempsey PhD<sup>1,2,3,4</sup>, Clare Gillies, PhD<sup>5</sup>, David E. Kloecker, MPhil<sup>1,5,6</sup>,  
4 Cameron Razieh, PhD, <sup>1,2,5</sup>, Yogini Chudasama, PhD<sup>5</sup>, Nazrul Islam, PhD<sup>7</sup>, Francesco Zaccardi, PhD<sup>1,5</sup>,  
5 Claire Lawson, PhD<sup>5</sup>, Tom Norris, PhD<sup>5</sup>, Melanie J. Davies, MD<sup>1,2</sup>, Kamlesh Khunti, PhD<sup>1,5,8</sup>, Tom Yates,  
6 PhD<sup>1,2</sup>

7 <sup>1</sup> Diabetes Research Centre, Leicester General Hospital, University of Leicester, Gwendolen Rd, Leicester, LE5  
8 4PW, UK

9 <sup>2</sup> National Institute for Health Research (NIHR) Leicester Biomedical Research Centre (BRC), University Hospitals  
10 of Leicester NHS Trust and the University of Leicester, Leicester, LE5 4PW, UK.

11 <sup>3</sup> MRC Epidemiology Unit, Institute of Metabolic Science, University of Cambridge, Cambridge, United Kingdom

12 <sup>4</sup> Physical Activity & Behavioural Epidemiology Laboratories, Baker Heart & Diabetes Institute, Melbourne,  
13 Australia

14 <sup>5</sup> Leicester Real World Evidence Unit, Diabetes Research Centre, Leicester General Hospital, University of  
15 Leicester, Gwendolen Rd, Leicester, LE5 4PW, UK

16 <sup>6</sup> St George's University of London, Tooting, London, UK

17 <sup>7</sup> Nuffield Department of Population Health, University of Oxford, Oxford, UK

18 <sup>8</sup> NIHR Applied Research Collaboration – East Midlands (ARC-EM), Leicester General Hospital, Leicester, UK.

19 The publisher regrets that this article has been temporarily removed. A replacement will appear as  
20 soon as possible in which the reason for the removal of the article will be specified, or the article will be  
21 reinstated.

22 The full Elsevier Policy on Article Withdrawal can be found at [https://www.elsevier.com/about/our-](https://www.elsevier.com/about/our-business/policies/article-withdrawal)  
23 [business/policies/article-withdrawal](https://www.elsevier.com/about/our-business/policies/article-withdrawal).