cchsflow: An open science approach to transform & combine population health surveys

**Authors:**

Warsame Yusuf1, ORCID: 0000-0001-5571-8122

Rostyslav Vyuha1, ORCID: 0000-0002-6700-0991

Carol Bennett1, ORCID: 0000-0002-3033-9860

Yulric Sequeira1, ORCID: 0000-0001-7456-6427

Courtney Maskerine1,4

Douglas G. Manuel1,2,3,4,5, ORCID: 0000-0003-0912-0845

1 Ottawa Hospital Research Institute, Ottawa, Ontario, Canada

2 ICES, Ottawa and Toronto, Ontario, Canada

3 Statistics Canada, Ottawa, Ontario, Canada

4 Department of Family Medicine, University of Ottawa, Ottawa, Ontario, Canada

5 School of Epidemiology, Public Health and Preventative Medicine, University of Ottawa, Ottawa, Ontario, Canada

**Corresponding author information**

Warsame Yusuf

Ottawa Hospital Research Institute

Civic Campus, ASB 2-012

1053 Carling Avenue, Ottawa, ON K1Y 4E9

Tel: 613-798-5555 ext. 19108

Fax: 613-761-5492

[waryusuf@ohri.ca](mailto:waryusuf@ohri.ca)

**Funding:** This study was funded by CIHR (FRN 162222).

**Conflict of Interest:** The authors declare that they have no conflict of interest.

**Word count:** Abstract: 222; Text body: 3118

**Figures:** 6

**References:** 27

**Keywords:** Health Surveys, Data Analysis, Data Science, Population Health

**Author Contributions**

All authors contributed to the study conception and design. Data collection, variable selection, and software development were performed by Warsame Yusuf, Douglas G. Manuel, Rostyslav Vyuha, Carol Bennett, Yulric Sequeira, and Courtney Maskerine. The first draft of the manuscript was written by Warsame Yusuf and Douglas G. Manuel, and all authors commented on previous versions of the manuscript. All authors read and approved the final manuscript.