



Readings and Resources

CIHR-IGH 2025 Summer Institute in Sex and Gender+ Science

This document contains a list of readings and resources shared by the speakers at the Summer Institute. This live document will continue to be updated throughout the Summer Institute.

Papers

- Laberge M, Blanchette-Luong V, Blanchard A, et al. Impacts of considering sex and gender during intervention studies in occupational health: Researchers' perspectives. *Appl Ergon*. 2020;82:102960. doi:10.1016/j.apergo.2019.102960
- Lefrançois M, Sultan-Taïeb H, Webb J, et al. How to carry out participatory research that takes account of sex and gender issues: a scoping review of guidelines targeting health inequities. *Can J Public Health*. 2023;114(3):404-421. doi:10.17269/s41997-023-00742-z
- Mauvais-Jarvis F, Bairey Merz N, Barnes PJ, et al. Sex and gender: modifiers of health, disease, and medicine [published correction appears in *Lancet*. 2020 Sep 5;396(10252):668]. *Lancet*. 2020;396(10250):565-582. doi:10.1016/S0140-6736(20)31561-0
- Messing, K. "Chapter 5: Same, different, or understudied?" in *Bent out of Shape: Shame, Solidarity, and Women's Bodies at Work* (Le deuxième corps: Femmes au travail, de la honte à la solidarité, 2021).
- Ritz SA, Antle DM, Côté J, et al. First steps for integrating sex and gender considerations into basic experimental biomedical research. *FASEB J*. 2014;28(1):4-13. doi:10.1096/fj.13-233395
- From "*Considering Intersecting Identities and Addressing Structural Barriers to Care*" Panel (May 29)
 - Husain L, Greenhalgh T, Hughes G, Finlay T, Wherton J. Desperately Seeking Intersectionality in Digital Health Disparity Research: Narrative Review to Inform a Richer Theorization of Multiple Disadvantage. *J Med Internet Res* 2022;24(12):e42358. URL: <https://www.jmir.org/2022/12/e42358> DOI: 10.2196/42358
 - Ghisi GLM, Kim WS, Cha S, Aljehani R, Cruz MMA, Vanderlei LCM, Pepera G, Liu X, Xu Z, Maskhulia L, Venturini E, Chuang HJ, Pereira DG, Trevizan PF, Kouidi E, Batalik L, Ghanbari Firoozabadi M, Burazor I, Jiandani MP, Zhang L, Tourkmani N, Grace SL. Women's Cardiac Rehabilitation Barriers: Results of the

International Council of Cardiovascular Prevention and Rehabilitation's First Global Assessment. Can J Cardiol. 2023 Nov;39(11S):S375-S383. doi: 10.1016/j.cjca.2023.07.016.

[https://onlinecjc.ca/article/S0828-282X\(23\)01552-0/fulltext](https://onlinecjc.ca/article/S0828-282X(23)01552-0/fulltext)

- Tailor LS, Angell J, Hasan S, et al. Bolstering Access to HIV-Related Health care in Zimbabwe Among Young Mothers Living With HIV: Lessons Learned on HIV Health Promotion From Zvandiri's Young Mentor Mother Program. Health Promotion Practice. 2024;0(0). doi:[10.1177/15248399241278974](https://doi.org/10.1177/15248399241278974)
- **Study about knowledge in primary care:** Carroll et al. Breast Cancer Screening Recommendations for Transgender and Gender Diverse Patients: A Knowledge and Familiarity Assessment of Primary Care Practitioners. J Community Health. 2023 Oct;48(5):889-897.

Webpages and Other Resources

- "Research Priority Plan 2024-2029," Canadian Institutes of Health Research Institute of Gender and Health. Accessible at <https://www.cihr-irsc.gc.ca/e/35752.html>
- "Sex, Gender and Knowledge Translation," Canadian Institutes of Health Research (CIHR). Accessible at <https://cihr-irsc.gc.ca/e/49933.html>
- "How to integrate intersectionality theory in quantitative health equity analysis? A rapid review and checklist of promising practices," Canadian Institutes of Health Research (CIHR). Accessible at <https://www.canada.ca/en/public-health/services/publications/science-research-data/how-integrate-intersectionality-theory-quantitative-health-equity-analysis.html#a3.5>
- Gendered Innovations in Science, Health & Medicine, Engineering, and Environment. Stanford University. Accessible at <https://genderedinnovations.stanford.edu/>
- Lowik, A., Cameron, J. J., Dame, J., Ford, J., Pulice-Farrow, L., Salway, T., van Anders, S., & Shannon, K. (2024). Gender and Sex in Methods & Measurement - Research Equity Toolkit. Collaborative of Gender and Sexual Health Equity, University of British Columbia. Accessible at <https://cgshe.ca/practice/research-toolkits/gender-and-sex-toolkit/>
- Partnership for Women's Health Research Canada (PWHR) and Women's Health Research Institute (WHRI). (2024). Beyond the Binary in Canada Guide. Pathways toward equitable research with people who experience sex and gender-based health inequities. Accessible at https://pwhr.org/wp-content/uploads/2024/10/BTB_PWHR_Oct_15_2024.pdf
- BC Cancer Resource: <http://www.bccancer.bc.ca/screening/Documents/Breast-Screening-Transgender-Patients-Provider-Guide.pdf>

- Rainbow Health Ontario Podcast Resource:
<https://www.rainbowhealthontario.ca/cancer-screening-and-2slgbtq-communities/>

Training Modules

- Integrating Sex & Gender in Health Research, Canadian Institutes of Health Research (CIHR). Accessible at <https://cihr-irsc.gc.ca/e/49347.html>
 - Course 1: Sex and Gender in Biomedical Research
 - Course 2: Sex and Gender in Primary Data Collection with Human Participants
 - Course 3: Sex and Gender in the Analysis of Secondary Data from Human Participants
- Bench to Bedside: Integrating Sex and Gender to Improve Human Health Course, National Institutes of Health (NIH). Accessible at <https://orwh.od.nih.gov/e-learning/bench-to-bedside-integrating-sex-and-gender-to-improve-human-health-course>

Integrating IDEA into Research Methodologies

Resource list shared by Patti Leake, Research Inclusion, Diversity, Equity and Accessibility (IDEA) Educator at the University Health Network

Resources

- [CMAJ's new guidance on the reporting of race and ethnicity in research articles](#). Matthew B. Stanbrook, Bukola Salami. CMAJ (2023), 195 (6) E236-E238; DOI: 10.1503/cmaj.230144
- [Author's apology](#). Kirsten L Patrick, Interim editor-in-chief, Canadian Medical Association Journal, 2021 (one page)
- Optional: Sociology of Stem Cell Research: [Race for Cures: Rethinking the Racial Logics of 'Trust' in Biomedicine](#) R Benjamin. [Sociology Compass](#), June 2014

Quiz References

- [Sex differences in pharmacokinetics predict adverse drug reactions in women](#). Zucker, Prendergast. [Biology of Sex Differences](#), 2020.
- [Systematic review and meta-analysis of ethnic differences in risks of adverse drug reactions to drugs used in cardiovascular medicine](#). McDowell, Coleman, Ferner. BMJ, 2006.

- [Olfactory exposure to males, including men, causes stress and related analgesia in rodents.](#) Sorg, Martin et al. Nature methods, 2014.
- Dutil J, Chen Z, Monteiro AN, Teer JK, Eschrich SA. [An Interactive Resource to Probe Genetic Diversity and Estimated Ancestry in Cancer Cell Lines.](#) Cancer Res. 2019 Apr 1;79(7):1263-1273. doi: 10.1158/0008-5472.CAN-18-2747. Epub 2019 Mar 20.
- [Demographics of Toronto.](#) Wikipedia. Accessed June 10, 2024
- [Proportion of World Population by Continent](#) (2023). Statista. Accessed July 10, 2024
- [POPULATIONEDUCATION.ORG](#)
- Our World in Data. [Population Growth, Population Cartogram.](#) Accessed July 10, 2024
- [Genetic ancestry in precision medicine is reshaping the race debate. Krainc & Fuentes. 2022](#)

Tools

- [De Wolfe Tj, Arefin Mr, Benezra A, Rebolleda Gómez M. Chasing Ghosts: Race, Racism, And The Future Of Microbiome Research. Msystems. 2021.](#)
- [Public human microbiome data are dominated by highly developed countries. Abdill. 2022.](#)
- [Author's apology.](#) Kirsten L Patrick, Interim editor-in-chief, Canadian Medical Association Journal, 2021 (one page)
- Optional: Sociology of Stem Cell Research: [Race for Cures: Rethinking the Racial Logics of 'Trust' in Biomedicine](#) R Benjamin. [Sociology Compass, June 2014](#)
- [Integrate geographic scales in equity, diversity and inclusion.](#) Khelifa, R., Mahdjoub, H. 2021
- Benkarim O, Paquola C, Park B-y, Kebets V, Hong S-J, Vos de Wael R, et al. (2022) [Population heterogeneity in clinical cohorts affects the predictive accuracy of brain imaging.](#) PLoS Biol. 2022. 20(4): e3001627. <https://doi.org/10.1371/journal.pbio.3001627>
- [The Missing Diversity in Human Genetic Studies. Cell. Sirugo, 2019.](#)
- [Sex differences in brain modular organization in chronic pain. Pain, 2021.](#)
- [Statistical simulations show that scientists need not increase overall sample size by default when including both sexes in in vivo studies. PLOS. 2023](#)

- [It's time to incorporate basic science into our basic science and disease models. Horwitz, R., Riley, E.A.U., Millan, M.T. et al. Nat Cell Biol. 2021](#)
- [Equator Network](#) Enhancing the quality and transparency of health research.
- [Gendered Innovations](#). Website Accessed 2023_
- [Gendered Innovations](#), Stanford, Website, and report: [Gendered Innovations 2: How Inclusive Analysis Contributes to Research and Innovation](#).
- [Arrive Guidelines](#) (Animal Research:Reporting of *in vivo* Experiments)
- [Lampeter T, Love C, Tang Tt, Et Al. Risk Of Bias Assessment Tool For Systematic Review And Meta-Analysis Of The Gut Microbiome. Gut Microbiome. 2023](#)
- [International Genome Sample Resource](#).
- [Indigenous Genomic Databases: Pragmatic Considerations and Cultural Contexts. Caron, Chongo,Hudson, Arbour, Wasserman, Robertson, Correard, Wilcox. Frontiers in Public Health. 2020](#)
- [Arbour L, Cook D. DNA on loan: issues to consider when carrying out genetic research with aboriginal families and communities. Community Genet. 2006](#)
- Genomics as Reconciliation. Genome Canada.
- [National Academies Of Sciences, Engineering, And Medicine. 2023. Toward Equitable Innovation In Health And Medicine: A Framework. Washington, Dc: The National Academies Press. HTTPS://DOI.ORG/10.17226/27184.](#)
- [Lilian Hunt Et Al. A Framework For Sex, Gender, And Diversity Analysis In Research. Science. \(2022\)](#)
- [Intersectionality-Informed Quantitative Research: A Primer](#). Rouhani. The Institute for Intersectionality Research & Policy, SFU, 2014
- Heather Krause, [We all Count. Data analysis certificates](#).
- [Public Health Agency of Canada. How to integrate intersectionality theory in quantitative health equity analysis? A rapid review and checklist of promising practices. Ottawa, ON: PHAC; 2022.](#)
- [Multilevel analysis of individual heterogeneity and discriminatory accuracy \(MAIHDA\) within an intersectional framework](#), Merlo, 2018

- [Sex and Gender Equity in Research: rationale for the SAGER guidelines and recommended use](#). Heidari, Babor, De Castro, Tort, Curno. [Research Integrity and Peer Review](#). 2016.
- [San Francisco Declaration on Research Assessment](#). Best practices in the assessment of scholarly practices.
- [Reporting Sex, Gender, or Both in Clinical Research?](#) Clayton & Tannenbaum. JAMA, 2016
- [New Recommendations for Collecting Sex and Gender Data](#). Suran. JAMA, 2022.
- [Striving for inclusive excellence in Science Research: A Pocket Guide](#). Carleton University Faculty of Science.
- [Pride in Patient Engagement--PiPER](#)
- [CIHR Training modules](#) on Sex and Gender
- For collecting health equity data: Updated Ontario Health Equity Measure which was created based on the SPARK tool. UHN began implementing the Ontario Health sociodemographic survey in the cancer, transplant and arthritis programs in November 2023 through the MyUHN portal. The plan is to ultimately implement this demographic survey institution-wide as Ontario Health requires reporting on the collection of sociodemographic information from patients.
 - [*Toronto Region Measuring Health Equity Updated Core Questions and Additional Optional Questions_Nov 2022.pdf*](#)
 - [*Final SPARK Tool 2022_06_30_PDF.pdf*](#)
- [CIHI Equity Identifiers](#)

What is an equity stratifier?

An equity stratifier is a characteristic such as a demographic, social, economic or geographic variable that can identify population subgroups for measuring differences in health and health care that may be considered unfair or unjust. Inequalities between subpopulations can be identified by disaggregating health indicators using equity stratifiers.

- [Extending the PRISMA statement to equity-focused systematic reviews \(PRISMA-E 2012\): explanation and elaboration](#). Journal of Development Effectiveness. Welch, Petticrew, Petkovic, Moher, Waters, White, Tugwell & the PRISMA-Equity Bellagio group. 2016

- [CONSORT-Equity 2017 extension and elaboration for better reporting of health equity in randomised trials](#) Welch et al. BMJ. 2017.
- [EQUATOR list of Reporting Guidelines](#)
- [Intersectionality-Informed Quantitative Research: A Primer](#) Rouhani. The Institute for Intersectionality Research & Policy, SFU, 2014
- [Sex and gender analysis improves science and engineering.](#)
- [Tannenbaum, Ellis, Eyssel, Zou, Schiebinger. Nature. 2019.](#)
- [Sex and Gender Equity in Research: rationale for the SAGER guidelines and recommended use. Heidari, Babor, De Castro, Tort, Curno. Research Integrity and Peer Review. 2016.](#)
- TIER Dr. Daniel C Andreae Lecture Panel Discussion [Dismantling Structures to Support Diversity](#)
- TIER Dr. Daniel C Andreae Lecture by Ruha Benjamin, [Race after Technology](#), password tier2020