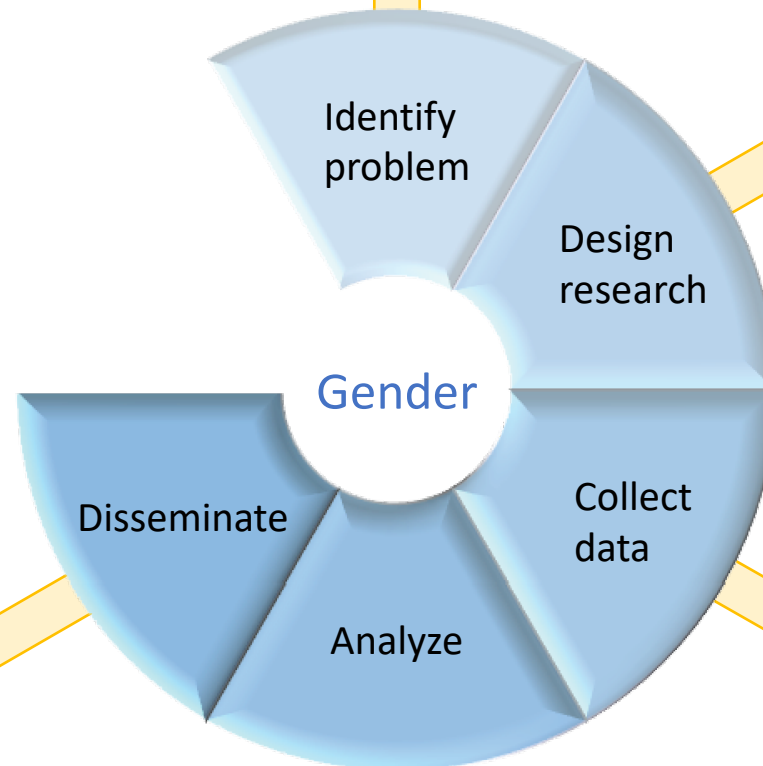


ANALYZING GENDER

enhances all phases of research



- Gender may play a role in all studies involving humans (Tannenbaum et al., 2019).
- Perform literature searches with adequate terms for "gender" and "sex" (Oertelt-Prigione et al., 2010).
- Consider the project's relevance in relation to different [gender identities, norms, and relations](#).
- Consider [relevant factors intersecting with gender](#) (age, socio-economic status, ethnicity, etc.).
- Reflect upon your own gender assumptions in relation to the project.
- Consider what opportunities may be missed by failing to analyse gender and intersecting factors

- Consider how to [involve diverse groups of research subjects/end-users](#) in the project life-cycle to ensure inclusive solutions.
- Consider which methods (qualitative and quantitative) are suited for examining the gender dimensions of relevance to your project.
- Use appropriate sample sizes for gender comparison (Sell, 2017).
- When [measuring gender in survey research](#), ensure that your instrument has been psychometrically validated in the target population (Steenkamp & Baumgartner, 1998).
- Inspect your [analytical concepts, categories, and theoretical models](#) for misguided or stereotypical assumptions.
- Consider the risk of stereotyping or excluding relevant groups.

- Collect data across gender characteristics (e.g. gender norms, gender identities, and gender relations) and intersecting factors.
- In survey research, use [the two-step approach](#) to collect data on gender identity and birth sex (Deutsch et al 2013). Ensure that all participants feel safe disclosing their gender identity.
- Ensure equal access for women, men and gender-diverse individuals. Is oversampling needed to ensure a sufficient number of gender-diverse participants? (Vaughan, 2017).
- Consider how gender relations between researchers and participants may impact data collection (Chapman et al. 2018).

- Conduct analyses of relevant factors related to [gender norms, gender identity, and gender relations](#) (Nielsen et al., 2021).
- When [using existing data](#), consider the cultural or institutional contexts in which the data were generated for potential gender biases.
- Examine similarities *between* groups (i.e. men, women, and gender-diverse individuals) and variations *within* groups (Hyde, 2005).
- Examine how observed differences between women, men and gender-diverse individuals relate to gender norms and relations.
- Examine how observed gender differences [vary by factors such as age, ethnicity, socioeconomic status](#).
- In longitudinal studies, examine how observed gender variations evolve over time.
- Consider how gender norms, identities and relations intersect to shape people's experiences, opportunities and practices.

- Report sample [characteristics by gender, sex, and relevant intersecting variables](#).
- Report how information on gender identity was obtained.
- Disaggregate reported results by sex and gender.
- Report all results: positive, negative, and inconclusive.
- Ensure that gender variations are properly reported in tables, figures, and conclusions.
- Avoid overemphasizing gender differences. Are the observed variations of practical significance? (Nelson, 2017).
- Consider following the SAGER publication guidelines (Heidari et al., 2016).

Works Cited

- Oertelt-Prigione, S., Parol, R., Krohn, S., Preissner, R., & Regitz-Zagrosek, V. (2010). Analysis of sex and gender-specific research reveals a common increase in publications and marked differences between disciplines. *BioMed Central Medicine*, 8, 70-80.
- Chapman, C. D., Benedict, C., & Schiöth, H. B. (2018). Experimenter gender and replicability in science. *Science advances*, 4(1), e1701427.
- Deutsch, M. B., Green, J., Keatley, J., Mayer, G., Hastings, J., Hall, A. M., ... & Blumer, O. (2013). Electronic medical records and the transgender patient: recommendations from the World Professional Association for Transgender Health EMR Working Group. *Journal of the American Medical Informatics Association*, 20(4), 700-703.
- Heidari, S., Babor, T. F., De Castro, P., Tort, S., & Curno, M. (2016). Sex and gender equity in research: rationale for the SAGER guidelines and recommended use. *Research Integrity and Peer Review*, 1(1), 2.
- McCrum-Gardner, E. (2010). Sample size and power calculations made simple. *International Journal of Therapy and Rehabilitation*, 17(1), 10-14.
- Nelson, J. A. (2017). *Gender and Risk-Taking: Economics, Evidence, and Why the Answer Matters*. Routledge.
- Nielsen, M. W., Peragine, D., Brooks, C., Cullen, M., Einstein, G., Ioannidis, J.P.A, Neilands, T. B. (...), Schiebinger, L. (forthcoming). Gender variables for health research.
- Randall L. Sell, 2017: Challenges and solutions to collecting sexual orientation and gender identity data, *American Journal of Public Health*, 107(8), 1214–1215.
- Steenkamp, J. B. E., & Baumgartner, H. (1998). Assessing measurement invariance in cross-national consumer research. *Journal of consumer research*, 25(1), 78-90.
- Tannenbaum, C., Ellis, R. P., Eyssel, F., Zou, J., & Schiebinger, L. (2019). Sex and gender analysis improves science and engineering. *Nature*, 575(7781), 137-146.
- Vaughan, R. (2017). Oversampling in health surveys: Why, when, and how? *American Journal of Public Health*, 107(8), 1214–1215.