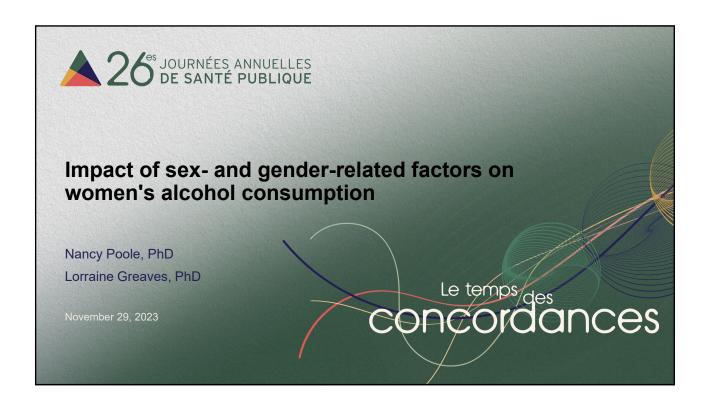
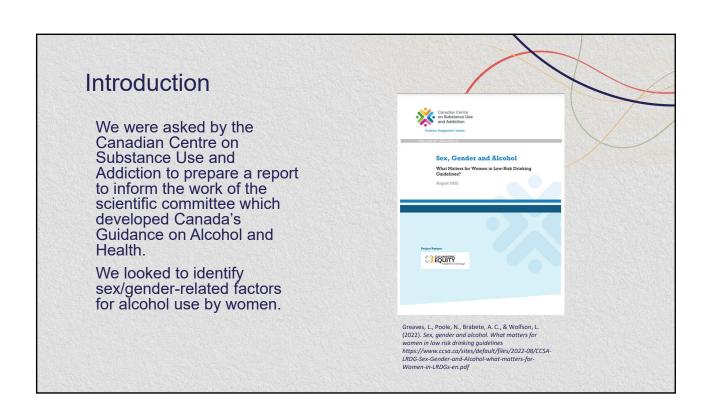
Cette présentation a été effectuée le 29 novembre 2023, au cours de la journée *Regard sur la consommation d'alcool au féminin* dans le cadre des 26es Journées annuelles de santé publique.





- ▶ Both sex related factors and gender related influences interact to determine impacts on alcohol use by women, and the consequences for women.
- ► In addition, these factors and influences interact with intersectional factors (such as age, race, SES, sexual orientation) and processes (such as a sexism and racism).
- We were not looking for sex differences only.

Research Approaches

- Sex &/or Gender Differences research focuses on comparative studies of males and females/men and women
- Sex &/or Gender Related Factors research focuses on mechanisms, processes and dynamics
- Sex-Gender Interactions research focuses on real world relationships and impacts of sex and gender
- Intersectional analyses that centre sexgender interactions and measure the impact of context, processes and factors that interact with sex and gender to affect health

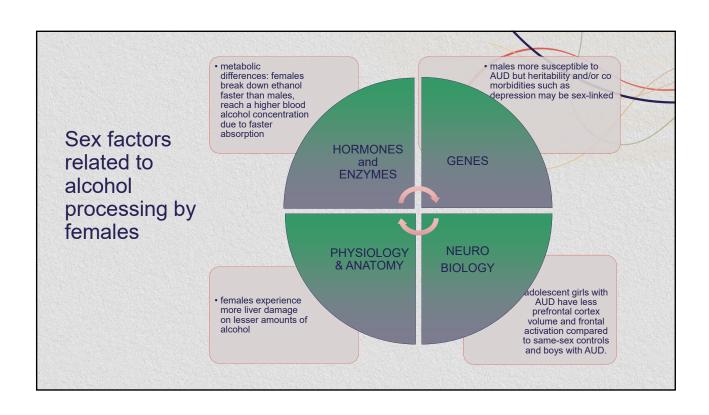
Methods

➤ Our literature search strategy is included in this journal article. It included a review of recent evidence that updated a large scoping review funded by the CIHR on sex, gender and 4 substances in order to collect literature related to sex, gender and alcohol published since 2018



Greaves, L., Poole, N., & Brabete, A. C. (2022). Sex, Gender, and Alcohol Use: Implications for Women and Low-Risk Drinking Guidelines. International Journal of Environmental Research and Public Health, 19(8), 4523. https://www.mdpi.com/1660-4601/19/8/4523





Sex-related Factors

- ► Enzymes, genes, body weight and size, fat/water ratio, organ function and metabolism are important in processing alcohol and are affected by sex-related factors.
- ► Females experience faster intoxication, more risk for disease, including breast cancer, and more long-term harm, such as liver damage and injury, after ingesting lower amounts of alcohol compared to males.

There are risks of alcohol use for both men and women, even at low levels of drinking, but it is not a level playing field

Pregnancy and Delivery Outcomes

Based on several Australian reviews we looked for updates on women's health outcomes in pregnancy such as:

- Miscarriage
- Preterm delivery
- Hypertensive disorders of pregnancy
- · Gestational diabetes
- · Low amniotic fluid
- · Placenta previa
- · Placental abruption
- Stillbirth

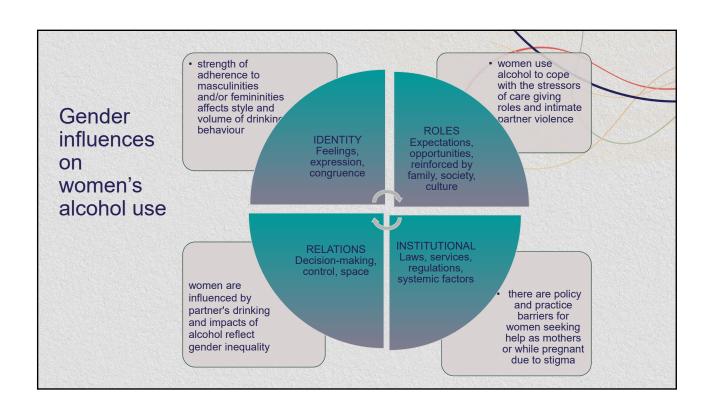
We found updates on:

- Miscarriage Inconsistent findings among studies but one study found dose-dependent relationship with more than 5 drinks per week
- Hypertensive disorders of pregnancy One study found Increased PIGH-levels in the second and third trimesters with ≥8 drinks per week of alcohol in the periconception period
- Placental abruption Increased odds of placental abruption with a dose responsive relationship

Sundermann, A.C., et al., Alcohol Use in Pregnancy and Miscarriage: A Systematic Review and Meta-Analysis. Alcoholism: Clinical & Experimental Research, 2019. 43(8): p. 1606-1616.

Steane, S.E., et al., Prenatal alcohol consumption and placental outcomes: a systematic review and meta-analysis of clinical studies. American journal of obstetrics and gynecology, 2021.





Research examples - Gender Influences

Gender norms

One review examined the evidence between conformity with gender norms and alcohol use and/or abuse in adults

Patró-Hernández, R.M., Y. Nieto Robles, and R.M. Limiñana-Gras, The relationship between gender norms and alcohol consumption: A Systematic Review. Adicciones, 2020. 32(2): p. 145-158.

Another review found norms related to mothering as influential in women's health behaviour including tobacco and alcohol use during pregnancy

Rockliffe, L., et al., Factors influencing health behaviour change during pregnancy: a systematic review and meta-synthesis. Health psychology review, 2021: p. 1-20.

Gender relations

Several of recent reviews focussed on the influence of intimate partner violence (IPV) and coercive relationships on alcohol use by girls and women, for example:

- Stubbs, A. and C. Szoeke, The Effect of Intimate Partner Violence on the Physical Health and Health-Related Behaviors of Women: A Systematic Review of the Literature. Trauma, violence & abuse, 2021: p. 1524838020985541.
- Melkonian, A.J. and L.S. Ham, The effects of alcohol intoxication on young adult women's identification of risk for sexual assault: A systematic review. Psychology of Addictive Behaviors, 2018. 32(2): p. 162-172.

Research examples - Gender Influences

Gender identity

In general, people who are in either sexual or gender minority groups have been considered to consume more alcohol than those in majority groups, however reliance on non-representative samples, and a range of other methodological limitations are drawbacks of the research.

- Hughes, T.L., et al., Research on alcohol and other drug (AOD) use among sexual minority women: A global scoping review. PLoS One, 2020. 15(3): p. e0229869.
- ▶ Gilbert, P.A., et al., Alcohol research with transgender populations: A systematic review and recommendations to strengthen future studies. Drug Alcohol Depend, 2018. **186**: p. 138-146.

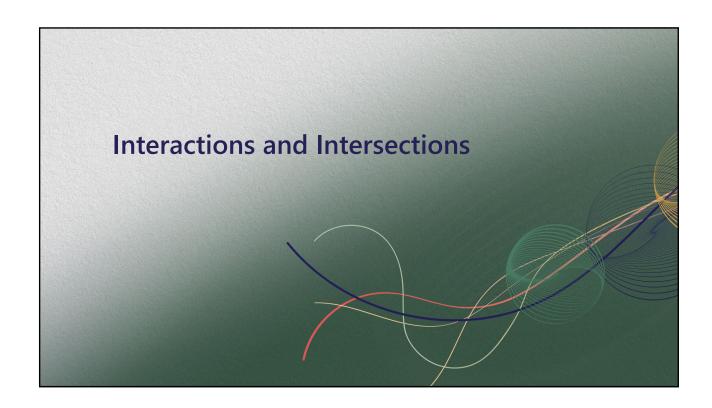
Gendered institutional impacts

One systematic review of qualitative studies involving pregnant and recently postpartum women described the barriers and facilitators that influence alcohol use in pregnancy including access to care, information and resources.

Lyall, V., et al., "The Problem Is that We Hear a Bit of Everything...": A Qualitative Systematic Review of Factors Associated with Alcohol Use, Reduction, and Abstinence in Pregnancy. International journal of environmental research and public health, 2021. 18(7).

Several systematic reviews focused on availability of preconception health knowledge, messages, interventions, and programming, for example:

Cairncross, Z.F., et al., Measurement of Preconception Health Knowledge: A Systematic Review. American Journal of Health Promotion, 2019. 33(6): p. 941-954.



Interactions of Sex and Gender

- ▶ Both sex and gender interact to determine impacts on alcohol use by women, and the consequences for women.
- ► These processes result in internalized stigma for women and (re)trauma, often resulting in vicious circles of alcohol use and negative consequences.
- For example, gender based violence and alcohol use are connected one systematic review described the negative effects of IPV on physical health outcomes for women, including worsening the symptoms of menopause, increasing the risk of diabetes, developing chronic diseases and pain, contracting sexually transmitted infections, and engaging in risk-taking behaviors including the abuse of drugs and alcohol

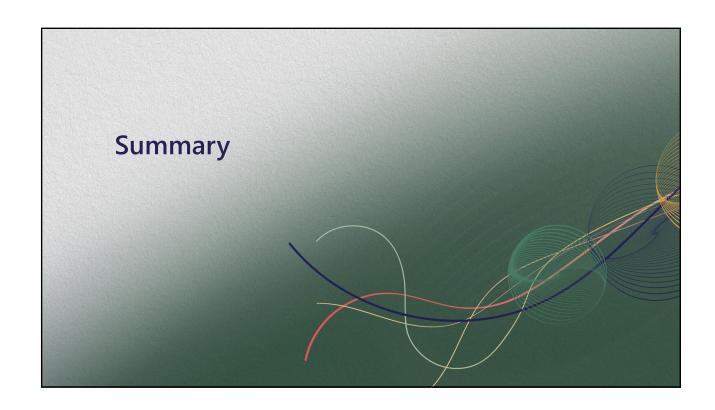
Intersections

Sex and gender interactions are enhanced when understood in an intersectional context, considering characteristics such as socioeconomic status, race, age, and other drug use.



Experience of Loss https://canfasd.ca/wp-content/uploads/publications/FASD-Prevention-ns/ social and structural determinants affecting use and access to care - is used by the FASD Prevention Network Action Team to illustrate intersectional influences.

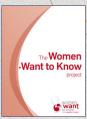




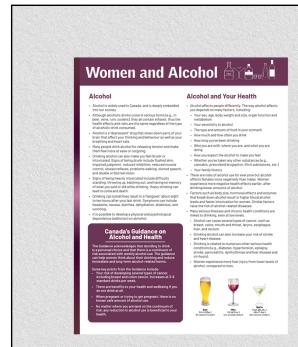
Messaging

It is challenging to translate research findings on health outcomes of alcohol use for women into public health messages. Here are some statements that might be considered:

- ▶ There are risks of alcohol use for both men and women, but it is not a level playing field, as alcohol affects women's bodies more negatively
- Alcohol is processed by women's bodies differently, causing more negative health effects, earlier, after lesser amounts of alcohol
- Women and girls become intoxicated faster after drinking less than men due to smaller bodies and organs, less body water, hormonal effects, and different enzyme actions that break down alcohol
- Women experience more liver injuries on lower levels of alcohol, compared to men
- Women's health is negatively affected by alcohol use, including links to a number of cancers, including breast cancer
- Drinking during pregnancy is risky. Alcohol use in pregnancy negatively affects both women's and fetal health. Alcohol use in pregnancy can increase the risk of miscarriage.
- Women's exposure to gendered experiences such as sexual assault and IPV is enhanced by alcohol use



An Australian project, designed to inform health practitioners about the importance of having discussions about alcohol, built on research with women, who indicated they wanted to practitioners to discuss the effects of alcohol (in respectful and informative ways)



This sheet, available from the CEWH website summarizes the health impacts of alcohol for women, is designed for health practitioners to use when discussing alcohol with women

Summary ➤ Sex matters ➤ Gender matters ➤ It is important that health practitioners discuss sex and gender factors, when conveying the overall message (Drinking less is better) of Canada's Guidance on Alcohol and Health Health

