

Additional file 8. Learning objectives covered by speakers across the five days of the program.

Date/Theme of Day	Speaker	Title of Session	Learning Objectives
May 26/Welcome and Overarching Themes	1	Integrating Sex and Gender in your CIHR Application	Understand CIHR sex and gender definitions
May 26/Welcome and Overarching Themes	1	Integrating Sex and Gender in your CIHR Application	Trainees will be able to write a strong sex and gender statement for CIHR applications
May 26/Welcome and Overarching Themes	2	Sex and Gender Integration in Health Research and Medical Education	Critically assess the structural and epistemological biases in medical knowledge production and clinical practice
May 26/Welcome and Overarching Themes	2	Sex and Gender Integration in Health Research and Medical Education	Define and distinguish between sex and gender as analytical variables in health research
May 26/Welcome and Overarching Themes	2	Sex and Gender Integration in Health Research and Medical Education	Apply sex- and gender-based considerations to clinical teaching and curriculum development
May 26/Welcome and Overarching Themes	3	Researcher Engagement in Policy Advocacy and Effective Communication with Policy Makers	Consider strategies and frameworks that support knowledge mobilization for policy impact

[Type here]

May 26/Welcome and Overarching Themes	3	Researcher Engagement in Policy Advocacy and Effective Communication with Policy Makers	Describe systems approaches to advancing healthcare delivery and policy reforms to underserved communities
May 26/Welcome and Overarching Themes	3	Researcher Engagement in Policy Advocacy and Effective Communication with Policy Makers	Engage with recent, real-world case examples about policy change and advancing social justice in healthcare
May 26/Welcome and Overarching Themes	4	TWO-SPIRIT HEALTH & WELLNESS: Being in Better Relations Through and By Research	Define what and who is Two-Spirit from lens of the Two-Spirit Dry Lab
May 26/Welcome and Overarching Themes	4	TWO-SPIRIT HEALTH & WELLNESS: Being in Better Relations Through and By Research	Describe some health research practices that bring about conditions to support the honoring Two-Spirit and peoples and/or communities
May 26/Welcome and Overarching Themes	4	TWO-SPIRIT HEALTH & WELLNESS: Being in Better Relations Through and By Research	Examine how the research process may create the opportunity for the researched and researchers to be in good/better relations
May 26/Welcome and Overarching Themes	5	From Research to Headlines: a Step-by-Step Guide to Creating a Press Release	Trainees will be able to write a press release

[Type here]

May 26/Welcome and Overarching Themes	5	From Research to Headlines: a Step-by-Step Guide to Creating a Press Release	Trainees will be able to identify effective strategies for knowledge mobilization to spread research information to the general public
May 26/Welcome and Overarching Themes	6	Gender, Sex, and Occupational Health: Making Workplace Equality Compatible With Health	Understand the importance of gender and sex in occupational health research
May 26/Welcome and Overarching Themes	6	Gender, Sex, and Occupational Health: Making Workplace Equality Compatible With Health	Understand the complexity of collecting and analysing data on gender/sex and other inequalities in occupational health and the importance of involving workplace partners
May 26/Welcome and Overarching Themes	6	Gender, Sex, and Occupational Health: Making Workplace Equality Compatible With Health	Understand the importance of considering the potential opposition between gender equality and women's health in interventions in occupational health (and consider the applicability of this opposition to other sources of inequality)
May 27: Biomedical Research	7	Sex, Gender and Health: Mapping the Landscape of Research and Policy	Understand different approaches to doing sex and gender science

[Type here]

May 27: Biomedical Research	7	Sex, Gender and Health: Mapping the Landscape of Research and Policy	Understand the relationships between research and policies that impact sex, gender and equity
May 27: Biomedical Research	7	Sex, Gender and Health: Mapping the Landscape of Research and Policy	Appreciate the complexities and entanglements of the concepts of sex and gender, and their impacts on health
May 27: Biomedical Research	8	Leaning into the Complexity of Sex and Gender in Biomedical Research	Recognize the limitations of using a male-female binary comparison approach for addressing sex and gender in health research
May 27: Biomedical Research	8	Leaning into the Complexity of Sex and Gender in Biomedical Research	Appreciate the complexity, dynamicism, and entanglement of sex and gender and the implications for experimental laboratory-based research
May 27: Biomedical Research	8	Leaning into the Complexity of Sex and Gender in Biomedical Research	Develop a critical lens for the conceptualization, operationalization, and interpretation of sex and gender in biomedical research
May 27: Biomedical Research	9	Wired Differently: How Neuroendocrine Studies Illuminate Reproductive Health Research	Understand how the brain is critical to women's reproductive cycles and fertility in both sexes

[Type here]

May 27: Biomedical Research	9	Wired Differently: How Neuroendocrine Studies Illuminate Reproductive Health Research	Discuss why biomedical studies overlook sex as a biological variable and remain incomplete mostly regarding the neurobiological mechanisms in female behavior
May 27: Biomedical Research	9	Wired Differently: How Neuroendocrine Studies Illuminate Reproductive Health Research	Reflect on the challenges of translating basic sex and gender biomedical methodologies and insights into clinical applications
May 27: Biomedical Research	10	Bridging the Gap: Integrating Sex and Gender in Pharmacotherapy Research	Identify how sex-related factors influence the pharmacokinetics and pharmacodynamics of medications
May 27: Biomedical Research	10	Bridging the Gap: Integrating Sex and Gender in Pharmacotherapy Research	Explain how incorporating sex and gender considerations can enhance the safety and efficacy of therapeutic agents
May 27: Biomedical Research	10	Bridging the Gap: Integrating Sex and Gender in Pharmacotherapy Research	Discuss ongoing collaborations addressing sex and gender disparities in therapeutics research
May 27: Biomedical Research	11	Incorporating Sex and Gender in Multidisciplinary Aging Research: The Canadian Consortium on Neurodegeneration and Aging's Women, Sex, Gender, and Dementia Cross-Cutting Program	Learn about a pan-Canadian aging and dementia network emphasizing sex and gender for all its research teams

[Type here]

May 27: Biomedical Research	11	Incorporating Sex and Gender in Multidisciplinary Aging Research: The Canadian Consortium on Neurodegeneration and Aging's Women, Sex, Gender, and Dementia Cross-Cutting Program	Learn approaches for engaging multidisciplinary teams in sex and gender research
May 28: Clinical Research	12	Sex and Gender Considerations in Rehabilitation Research and Guidelines	Discuss some of the strengths and limitations of the rehabilitation literature with regards to sex and gender issues with a focus on brain injury, spinal cord injury and stroke
May 28: Clinical Research	12	Sex and Gender Considerations in Rehabilitation Research and Guidelines	Describe the steps in guideline development and how developers have tried to incorporate sex and gender considerations into guidelines
May 28: Clinical Research	12	Sex and Gender Considerations in Rehabilitation Research and Guidelines	Name a few strategies researchers and guideline developers can incorporate into their processes to assist with the translation of findings from research into practice
May 28: Clinical Research	13	Large Scale Implementation of Shared Decision Making Into Clinical Research and Practice	Discuss barriers and facilitators to implementing shared decision-making in clinical practice
May 28: Clinical Research	13	Large Scale Implementation of Shared Decision Making Into Clinical Research and Practice	Learn actionable steps to integrate shared decision-making in clinical research and practice

[Type here]

May 28: Clinical Research	13	Large Scale Implementation of Shared Decision Making Into Clinical Research and Practice	Recognize the value of collaborative efforts surrounding sex, gender, and intersecting social processes to improve human health and well-being for all
May 28: Clinical Research	14	Promoting Sex and Gender+ Research on Social Media	How to leverage social media to increase the reach of your work and promote understanding of sex and gender+ topic
May 28: Clinical Research	14	Promoting Sex and Gender+ Research on Social Media	Implement strategies to engage the public and increase traction of your social media posts
May 28: Clinical Research	14	Capturing Sex and Gender in Health Outcomes	Identify measurement tools used in research to capture sex and gender attributes in human participants
May 28: Clinical Research	15	Capturing Sex and Gender in Health Outcomes	Evaluate the relevance of these instruments for clinical and functional health outcomes
May 28: Clinical Research	15	Capturing Sex and Gender in Health Outcomes	Understand key considerations for selecting appropriate instruments based on research objectives

[Type here]

May 28: Clinical Research	16	Inclusion, Diversity, Equity, and Accessibility in Research Methodologies	Articulate a shared definition of health equity and its key concepts
May 28: Clinical Research	16	Inclusion, Diversity, Equity, and Accessibility in Research Methodologies	Gain deeper understanding of how health research creates, reinforces and deepens health inequities
May 28: Clinical Research	16	Inclusion, Diversity, Equity, and Accessibility in Research Methodologies	Practice applying a health equity analysis to real-world research
May 28: Clinical Research	16	Inclusion, Diversity, Equity, and Accessibility in Research Methodologies	Take concrete steps to fill equity gaps in their contributions to research to integrate equity into all research work

[Type here]

May 29: Health Services	17	The Intersection of Anti-Indigenous Racism, Sexism and Oppression in the Healthcare System	Better understand how Indigeneity intersects with sex and gender to create discrimination and hinder access to healthcare services for Indigenous populations in Canada
May 29: Health Services	17	The Intersection of Anti-Indigenous Racism, Sexism and Oppression in the Healthcare System	Better understand cultural safety as an approach to address systemic barriers to healthcare access for Indigenous populations
May 29: Health Services	17	The Intersection of Anti-Indigenous Racism, Sexism and Oppression in the Healthcare System	Identify safe and respectful research practices with Indigenous patients and communities
May 29: Health Services	18	Integrating Gender in Participatory Workplace Health Research	Identify key challenges in occupational health research using an ecosystemic approach that integrates gender
May 29: Health Services	18	Integrating Gender in Participatory Workplace Health Research	Apply an ecosystemic lens to address gender-related issues in occupational health research, demonstrating the ability to propose inclusive solutions
May 29: Health Services	19	Empowering Health Equity: Person-Centred Care For Enhanced Outcomes and Satisfaction	Recognize the importance of person centered-care in the science of health equity

[Type here]

May 29: Health Services	19	Empowering Health Equity: Person-Centred Care For Enhanced Outcomes and Satisfaction	Identify key elements of shared decision making in person-centered care
May 29: Health Services	19	Empowering Health Equity: Person-Centred Care For Enhanced Outcomes and Satisfaction	Apply a reporting guideline for effective and transparent dissemination of health research
May 29: Health Services	20	Case Study: From a Large Administrative Database Comparing The Effect of Gender Versus Sex	Understand how a “gender” score can be derived from population-based health administrative data where gender variables are not included
May 29: Health Services	20	Case Study: From a Large Administrative Database Comparing The Effect of Gender Versus Sex	Understand how variables relating to “sex” and “gender” can be used in statistical modelling
May 29: Health Services	20	Case Study: From a Large Administrative Database Comparing The Effect of Gender Versus Sex	Provide examples of how to compare the effect of sex versus gender for different outcomes of interest
May 29: Health Services	21	Fostering 2SLGBTQIA Inclusive Research	Gain a deeper understanding of 2SLGBTQIA communities by exploring what it means to create inclusive spaces

[Type here]

May 29: Health Services	21	Fostering 2SLGBTQIA Inclusive Research	Legal context and considerations for research, sex and gender-based, through the lens of the Ontario Human Rights Code
May 29: Health Services	21	Fostering 2SLGBTQIA Inclusive Research	Best practices and tools for everyday allyship
May 30: Social, Cultural, Environmental & Population Health Research	22	Intersectional Sex and Gender Science: Methods and Resources	Learn an intersectional approach to sex and gender based analyses (SGBA+)
May 30: Social, Cultural, Environmental & Population Health Research	22	Intersectional Sex and Gender Science: Methods and Resources	Become aware of resources for SGBA+
May 30: Social, Cultural, Environmental & Population Health Research	22	Intersectional Sex and Gender Science: Methods and Resources	Identify examples of intersectional sex and gender research that is both quantitative and qualitative
May 30: Social, Cultural, Environmental & Population Health Research	23	The Ceremony of Image Making: Piecing Together Meaningful Research/Clinical Relationships	Attendees will understand how colonialism impacts the health outcomes of Indigenous people and populations

[Type here]

May 30: Social, Cultural, Environmental & Population Health Research	23	The Ceremony of Image Making: Piecing Together Meaningful Research/Clinical Relationships	Attendees will learn how healing is enhanced by reclamation of culture
May 30: Social, Cultural, Environmental & Population Health Research	23	The Ceremony of Image Making: Piecing Together Meaningful Research/Clinical Relationships	Attendees will learn how image-based storytelling honors personal and collective needs for wellbeing
May 30: Social, Cultural, Environmental & Population Health Research	24	Indigenous Health Data and Research at ICES	To understand who ICES is and what data is available
May 30: Social, Cultural, Environmental & Population Health Research	24	Indigenous Health Data and Research at ICES	Provide an overview of Indigenous data governance and sovereignty
May 30: Social, Cultural, Environmental & Population Health Research	24	Indigenous Health Data and Research at ICES	Learn about the Indigenous Partnerships, Data and Analytics department at ICES and our work with Indigenous partners
May 30: Social, Cultural, Environmental & Population Health Research	25	Equitable Partnerships in Health Research	Identify and prioritize potential partners for health research projects

[Type here]

May 30: Social, Cultural, Environmental & Population Health Research	25	Equitable Partnerships in Health Research	Develop effective involvement strategies to foster genuine participation
May 30: Social, Cultural, Environmental & Population Health Research	25	Equitable Partnerships in Health Research	Recognize and address challenges in collaborative health research