# Best Practices for Collecting Gender and Sex Data

Suzanne Thornton, Dooti Roy, Stephen Parry, Donna LaLonde, Renee Ellis, David Corliss, and Wendy Martinez (presenting)

FCSM Research & Policy Conference November 2021



The views expressed are those of the authors and not necessarily those of the U.S. Bureau of Labor Statistics or the U.S. Census Bureau

Any errors are Wendy's.





## Who are we?

- Suzanne Thornton, Swarthmore College
- Dooti Roy, Boehringer Ingelheim
- Stephen Parry, Cornell University
- Donna LaLonde, American Statistical Association (ASA)
- Renee Ellis, US Census Bureau
- David Corliss, Peace-Work
- Wendy Martinez, Bureau of Labor Statistics





# Who Am I?



# **How I got Here**

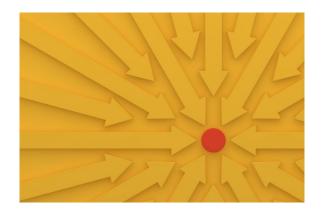
- Moderated a panel at the Women in Statistics and Data Science Conversation
- Co-wrote a resource article for Significance Magazine
- Established an LGBTQ+ Working Group as an ASA
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- Participated in a project to offer guidance for statistical best practices regarding gender and sex data
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## Wrote white paper to ...

Equip statistical practitioners with better understanding and practices for collecting and analyzing data about gender and sex





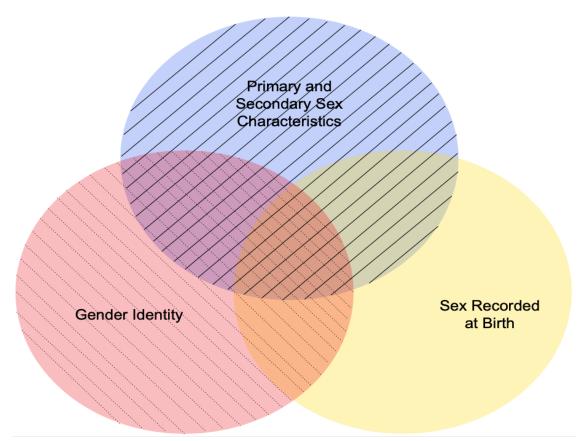
- Gender is a continuum & can change with time.
  - ► Gender identity: comes from within personal understanding of oneself
  - ► Gender expression: many possible expressions of gender clothing, hair, mannerisms, etc.
- Biological sex not really binary could be:
  - Chromosomes
  - ► Genitalia at birth



- Primary and secondary sex characteristics
  - Physical characteristics
  - Primary present at birth
  - Secondary present at puberty
- Sexual orientation is emotional, romantic or sexual attraction to other people.



Three different aspects of sex & gender identity.



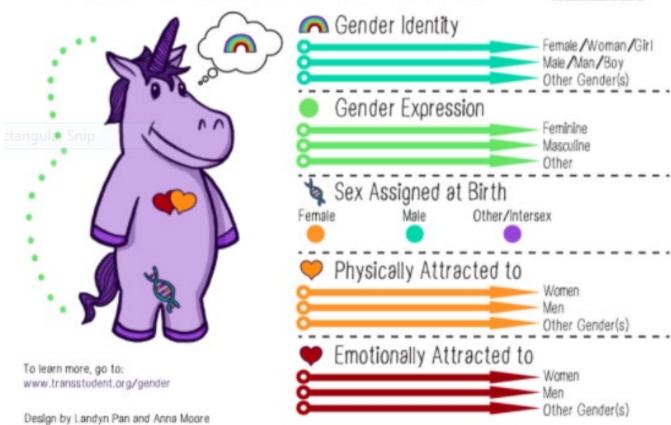


- For many people, all three characteristics overlap.
- For gender or sex minorities (GSM) one or more of these characteristics may not align with the others.
- Note: GSM is catch-all label includes transgender, non-binary, other gender nonconforming, and intersex people



# The Gender Unicorn







## **GOAL:**

# Motivation for Inclusive Data

the ethical treatment of human subjects

the collection of better-quality data



# Identifying the Relevant Gender and Sex Information for a Study



Is your study concerned with socially created ideas (like gender expression, gender inequality, or gender identity)? No Yes Is your study also concerned with biological considerations? Yes No Build questions that directly ask Include questions about study concern rather than on pertinent social Build questions that directly ask using sex or gender as a filter about study concern rather than constructs. question. For example: Do you have using sex or gender as a filter a prostate? Or Are you question. For example: Do you have Consider all breastfeeding? categories that may a prostate? Or Are you be needed to be breastfeeding? Include questions on pertinent inclusive. social constructs. Consider all categories that may be needed to be inclusive.

Build protections into your project for small subgroups. Think about how you will approach statistical issues resulting from small sample sizes and fluidity/uncertainty.



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## **Statistical Considerations**

- Consideration 1: Identify relevant information sex and gender are not interchangeable & do not necessarily need to be included in every study
- Consideration 2: Embrace inclusivity and respect the Belmont Report identifies "respect for persons" as a basic ethical principle of research
- Consideration 3: Protect the participant and the data
   data privacy is complicated by a lack of general,
   consistent standards





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CDC Webinar (8/15/19): Improving Measurement of Sexual Orientation and Gender Identity in the Federal Statistical System by Nancy Bates and Sylvia Fisher

### Measuring Sexual Orientation and Gender Identity Research Group

The purpose of this Federal Committee on Statistical Methodology (FCSM) research group is to explore the best practices of the measurement of sexual orientation and gender identity (SOGI) in the context of Federal information collections.

#### Background reports from the Federal Interagency Working Group for Improving Measurement of Sexual Orientation

- Why Do Federal Agencies Ask About Sexual Orientation and Gender Identity (SOGI) on Surveys?
- <u>Updates on Terminology of Sexual Orientation and Gender Identity Survey Measures</u>
- Current Measures of Sexual Orientation and Gender Identity in Federal Surveys
- Evaluations of Sexual Orientation and Gender Identity Survey Measures: What Have We Learned?
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## **FCSM SOGI Work**

- SOGI Sexual Orientation and Gender Identity
- 2016 reports research on terminology
- Literature Review (2020) of SOGI terminology
- Discusses response option terminology and methodological implications
- Focused on youth and SGM (sexual and gender minority) population

https://nces.ed.gov/FCSM/SOGI.asp



# **Sexual Orientation – Takeaways**

- Terms used for sexual identity/orientation are not exhaustive
- Some sexual minority groups do not like using labels for sexual orientation
- Sexual orientation is a continuum and can change over time, but terminology does not address it as such



# **Gender Identity – Takeaways**

- Terminology does not work for all transgender individuals
- Self-identification can
  - ► Change over time
  - Use a variety and/or multiple terms
- Can be affected by
  - Culture and language
  - ► Age, sex at birth and educational attainment



## **Call to Action**

- Work to change standard data collection of gender and sex for the sake of inclusivity and to decrease measurement error and bias.
- Be thoughtful in identifying what information is relevant and necessary.
- Understand the importance of respecting and protecting participants' identities.
- Plan in advance of data collection for statistical measurement and disclosure issues.
- **■** Continue the conversation ....



# It's complicated and evolving, but we have to keep working on it.



# **Contact Information**

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