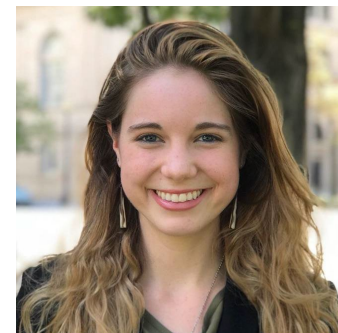




NIH Office of Research on Women's Health (ORWH)

ORWH E-Learning Courses: Overview and Live Demonstration



Elizabeth Barr Ph.D.

Social and Behavioral Scientist Administrator

Emily Gericke B.S.

Communications Specialist

ACRWH: October 18, 2022



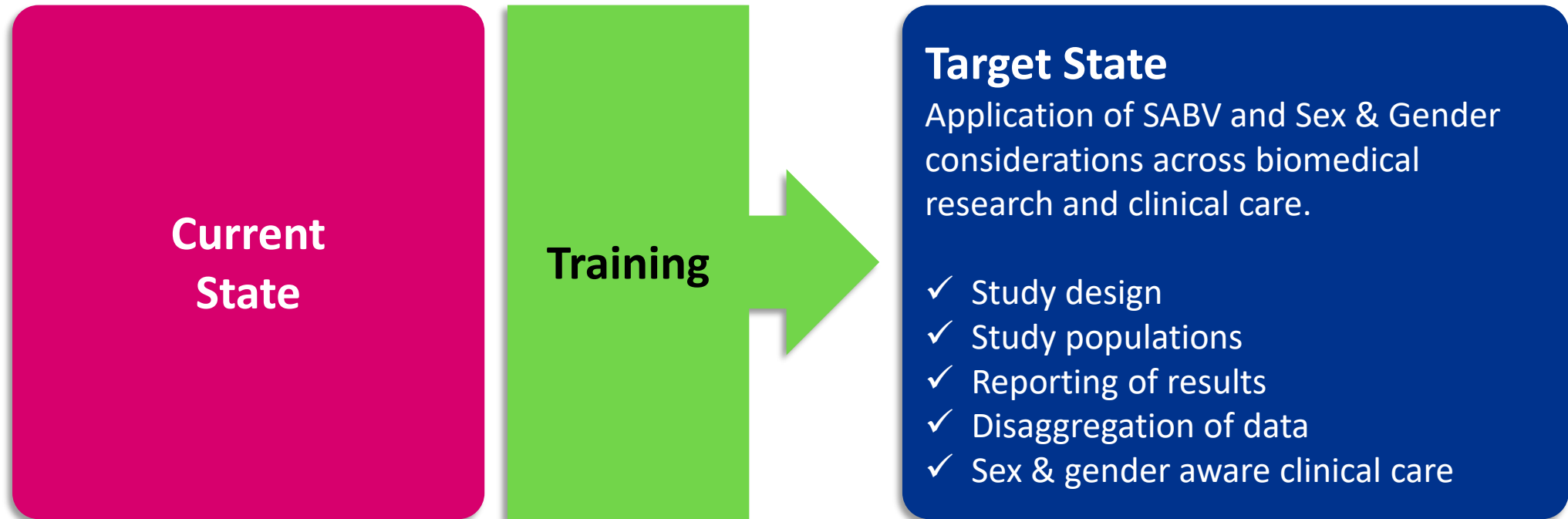
The Need for Trainings:

“ ”

*“Less than **25%** of [548 medical school lectures and workshops audited] raised the topic of sex or gender influences on physiology and pathophysiology or the experience of the patient in the health care environment.”*

*“Only **8.1%** of all sessions included an in-depth discussion of sex or gender differences, and these discussions predominantly focused on basic physiology and prevalence and/or incidence of disease, and not on available data on sex- and gender-specific influences on diagnosis, treatment, prognosis, and drug effects.” (2019)*

Purpose of ORWH Trainings:



Goals for Today:



- Provide an overview of the course offerings



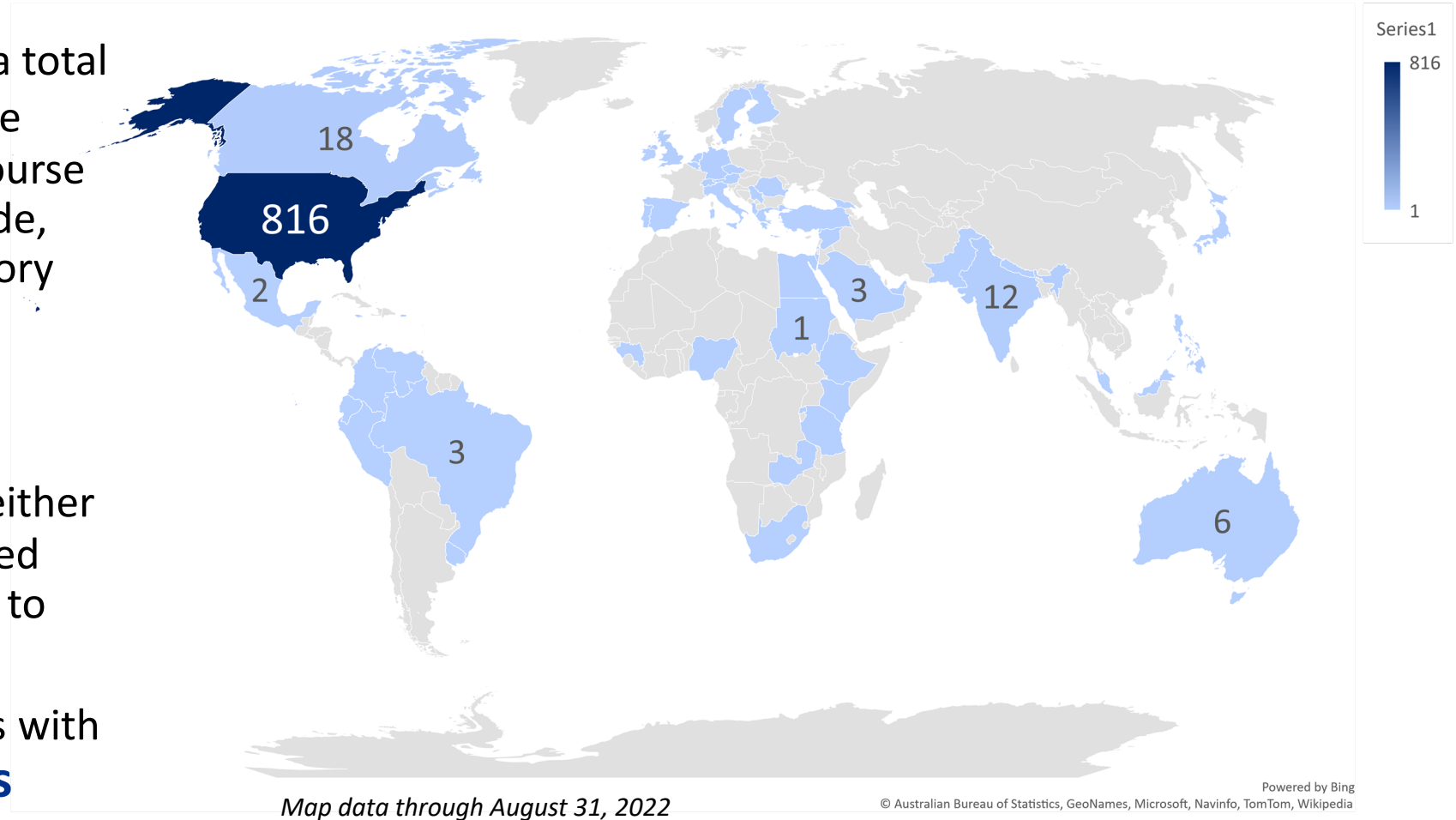
- Provide an understanding of who the courses are for, **key audiences** and **benefits**



- Provide a live demo of the *Bench to Bedside Course*

High-Level Metrics:

- As of September 30, 2022, a total of **2,006 individuals** have registered for the ORWH Course Dashboard (Bench to Bedside, SABV Primer, and Introductory Training).
 - **1344 since Aug 1, 2020**
- As of September 30, 2022, **1,267 individuals** have either started (N=493) or completed (N=774) a module of Bench to Bedside
- Learners reported affiliations with institutions in **56 countries**
- **81%** of learners are female



E-Learning Home:

<https://orwh.od.nih.gov/career-development-education/e-learning>

NIH National Institutes of Health
Office of Research on Women's Health

Putting science to work for the health of women

WOMEN'S HEALTH RESEARCH ▾ SEX & GENDER ▾ IN THE SPOTLIGHT ▾ SCIENCE POLICY ▾ CAREER DEVELOPMENT & EDUCATION ▾

HOME > CAREER DEVELOPMENT & INTERPROFESSIONAL EDUCATION > E-LEARNING

E-Learning

[Create Account](#) [Log In to Your Account](#)

ORWH e-learning courses give users a thorough and up-to-date understanding of sex and gender influences on health and disease and NIH requirements on factoring sex as a biological variable into research designs. Users will be able to apply this knowledge when designing and conducting research or interpreting evidence for clinical practice. Offerings include *Bench to Bedside: Integrating Sex and Gender to Improve Human Health* (CME credits available), *Sex as a Biological Variable: A Primer*, *Introduction: Sex- and Gender-Related Differences in Health*, and the *SABV Primer: Train the Trainer*.

[E-Learning Courses Flyer](#) [E-Learning Course Guide](#)

The courses are open to the public, and registration is free.

- Bench to Bedside: Integrating Sex and Gender to Improve Human Health**
- Sex as a Biological Variable (SABV): A Primer**
- SABV Primer: Train the Trainer**
- Introduction: Sex- and Gender-Related Differences in Health**


Career Development & Education

- ▶ Mentored Career Development
- ▶ Building Interdisciplinary Research Careers in Women's Health (BIRCWH)
 - Re-Entry into Biomedical Research Careers
- ▶ NIH Working Group on Women in Biomedical Careers
 - Women of Color Research Network
 - Ending Structural Racism
- ▼ E-Learning
 - Bench to Bedside: Integrating Sex and Gender to Improve Human Health Course
 - Sex as a Biological Variable: A Primer
 - SABV Primer Supplement
 - SABV Primer: Train the Trainer
 - Introduction: Sex- and Gender-Related Differences in Health
 - Research Continuity Supplements

Find E-Learning under
Career Development and
Educational Resources

Course Offerings Overview:

All courses are free

	Primary Aim	Primary Audience	Modules
Bench to Bedside: Integrating Sex and Gender to Improve Human Health 	<ul style="list-style-type: none"> Provide a thorough understanding of sex and gender influences on health and disease; instruct users how to apply this knowledge when conducting research and interpreting evidence for clinical practice 	Clinicians, researchers, healthcare workforce	6
Sex as a Biological Variable: Primer & Supplement <i>NIH OD & NIGMS</i>	<ul style="list-style-type: none"> Demonstrate how to consider SABV in all stages of biomedical research and clarify requirements of the NIH SABV policy 	Researchers, including all NIH grant applicants	4
SABV Primer: Train the Trainer	<ul style="list-style-type: none"> Help researchers account for, implement, and appropriately teach the SABV policy 	Researchers, all NIH grant applicants, trainers	6
Introduction: Sex- and Gender-Related Differences in Health <i>(Update underway)</i>	<ul style="list-style-type: none"> Introduce to the concepts and terminology of sex and gender and how to incorporate a multidimensional sex and gender lens into research and clinical care 	Researchers, clinicians, policymakers, public (everyone)	N/A

Free CMEs available

Pre-Test Screenshots:

(Applies to Bench to Bedside and SABV Primer)

1. Please rate your understanding of the following terms:

	Have never heard this term	Have heard term but don't know what it means	Somewhat familiar with this term	Confident in my understanding	Expert understanding
1a. NIH Sex as a Biological Variable Policy*	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1b. Sex*	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1c. Gender*	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1d. Women's Health*	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1e. Sex and gender specific medicine*	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1f. Intersection of sex and gender *	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

2. I am familiar with the following topics:

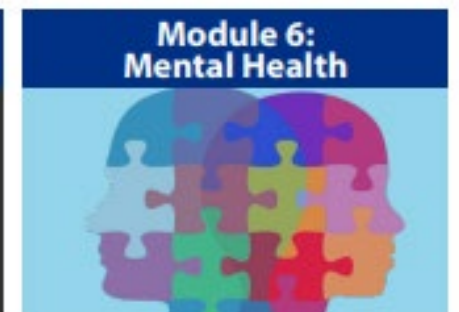
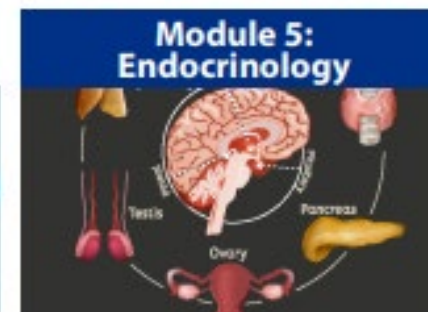
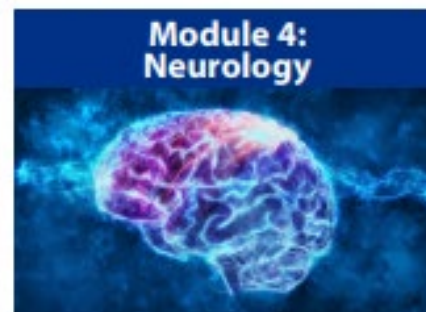
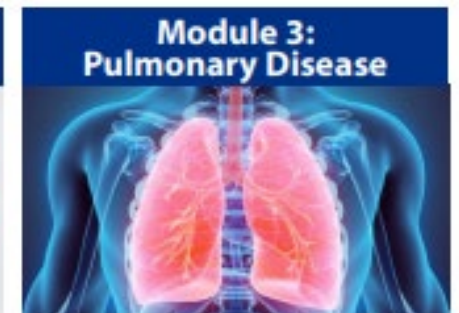
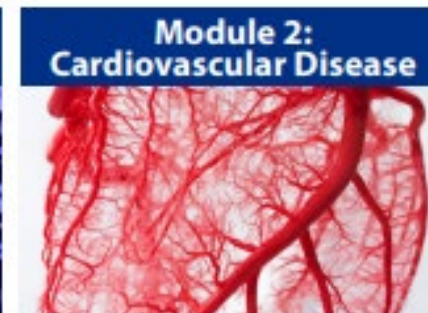
	Strongly Disagree	Somewhat Disagree	Do Not Know	Agree	Strongly Agree
2a. Sex differences in health and medicine *	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2b. Gender differences in health and medicine*	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2c. The intersection of sex and gender in health and medicine*	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2d. The importance of including both sexes in animal and human research studies*	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2e. Sex-specific reporting of study results *	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Bench to Bedside: Who is it for?

- Clinicians (Including trainees)
- All healthcare professionals (nurses, administrators, public health workers)
- Researchers (all career levels)
- Students
 - Advanced undergraduate
 - Graduate, post graduate
 - Medical, pharmaceutical, and other allied health professional schools
- All interested learners

**Free
CMEs
available**

Bench to Bedside Modules



Bench to Bedside: How to use it?

- ✓ **Incorporate into academic courses**
- ✓ **Incorporate as training for lab members**
- ✓ **Provide as an extra-credit option for students**
- ✓ **Share with school libraries**
- ✓ **Share with professional associations**
- ✓ **Share with department faculty**
- ✓ **Share with networks online**
- ✓ **Share your experience taking the course(s)**



Bench to Bedside Course Demo