# **ORWH E-Learning Courses: Overview and Live Demonstration**



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www.nih.gov/women #ResearchForWomen

## 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:**

Target State

Application of SABV and Sex & Gender considerations across biomedical research and clinical care.

✓ Study design
✓ Study populations
✓ Reporting of results
✓ Disaggregation of data
✓ Sex & gender aware clinical care



## **Goals for Today:**



Provide an overview of the course offerings



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



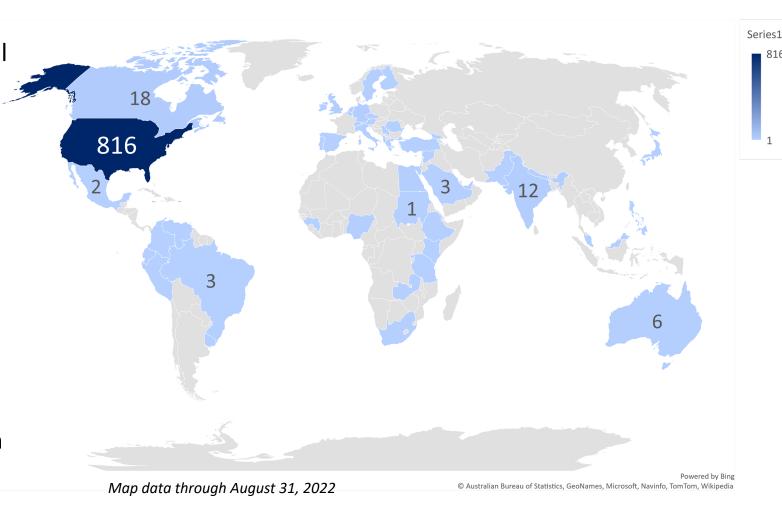
• Provide a live demo of the Bench to Bedside Course



## **High-Level Metrics:**

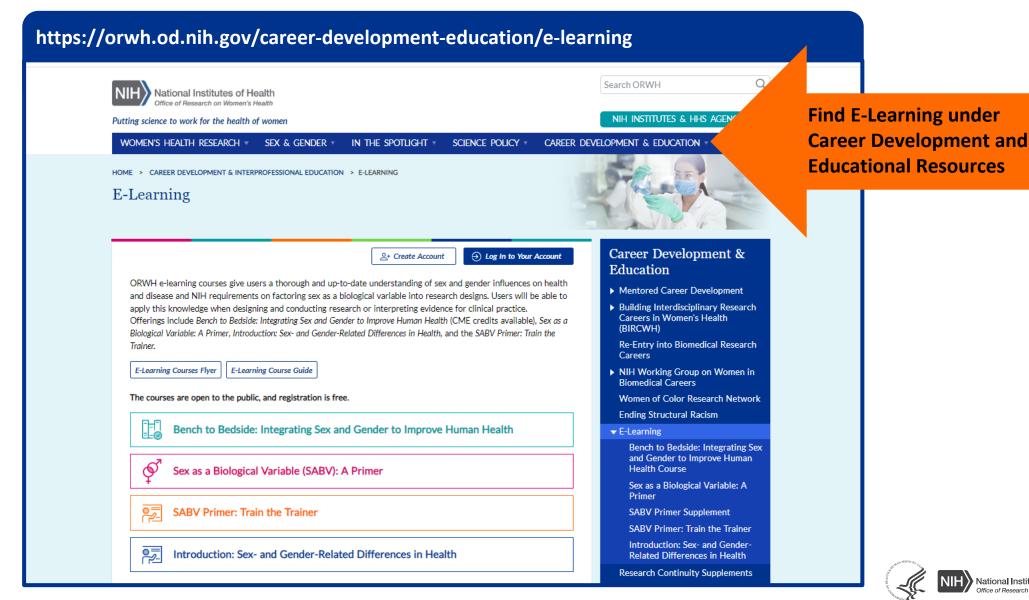
 As of September 30, 2022, a total of 2,006 individuals have registered for the ORWH Course Dashboard (Bench to Bedside, SABV Primer, and Introductory Training).

- 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:**





## **Course Offerings Overview:**

#### All courses are free

	Primary Aim	Primary Audience	Modules
Bench to Bedside: Integrating Sex and Gender to Improve Human Health  FDA U.S. FOOD & DRUG ADMINISTRATION OFFICE OF WOMEN'S HEALTH	<ul> <li>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</li> </ul>	Clinicians, researchers, healthcare workforce	6 Free avo
Sex as a Biological Variable: Primer & Supplement  NIH OD & NIGMS	<ul> <li>Demonstrate how to consider SABV in all stages of biomedical research and clarify requirements of the NIH SABV policy</li> </ul>	Researchers, including all NIH grant applicants	4
SABV Primer: Train the Trainer	<ul> <li>Help researchers account for, implement, and appropriately teach the SABV policy</li> </ul>	Researchers, all NIH grant applicants, trainers	6
Introduction: Sex- and Gender-Related Differences in Health  (Update underway)	<ul> <li>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</li> </ul>	Researchers, clinicians, policymakers, public (everyone)	N/A





## **Pre-Test Screenshots:**

(Applies to Bench to Bedside and SABV Primer)

	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*	0	0	0	0	0
1b. Sex*	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
1c. Gender*	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
1d. Women's Health*	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
1e. Sex and gender specific medicine*	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
1f. Intersection of sex and gender *	$\circ$	$\circ$	$\bigcirc$	$\circ$	$\bigcirc$
2. I am familiar with the following	topics:				
	Strongly Disagree	Somewhat Disagree		Agree	Strongly Agree
2a. Sex differences in health and medicine *	0	0	0	0	O
2b. Gender differences in health and medicine*	$\circ$	$\circ$	$\circ$	$\circ$	$\circ$
2c. The intersection of sex and gender in health and medicine*	$\circ$	$\circ$	$\circ$	$\circ$	$\circ$
2d. The importance of including both sexes in animal and human research studies*	0	0	0	0	0



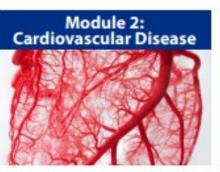
#### Bench to Bedside: Who is it for?

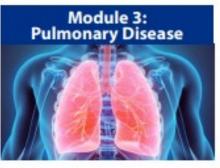
- Clinicians (Including trainees)
- All healthcare professionals (nurses, administrators, public health workers)
- Researchers (all career levels)
- Students
  - Advanced undergraduate
  - Graduate, post graduate
  - Medical, pharmaceutical, and other allied health professional schools
- All interested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

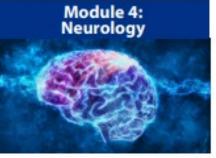


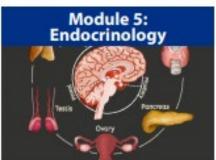
#### **Bench to Bedside Modules**

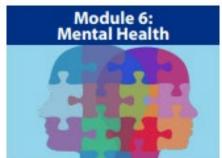














### Bench to Bedside: How to use it?

- ✓ 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**

