49th Meeting of the NIH Advisory Committee on Research on Women's Health

Elizabeth Spencer
Deputy Director
Office of Research on Women's Health
National Institutes of Health
October 23, 2019





Reminder: Special Government Employees (SGE)

- Subject to the same ethics rules that apply to government employees
- Rules located in "Standards of Ethical Conduct for Employees of the Executive Branch"
- ACRWH members are required to disclose any real, potential, or apparent conflict(s) of interest
- ACRWH members may not engage in any lobbying activities while attending committee meetings of ACRWH-sponsored events





New SGE Procedures

- Electronic submission of Confidential Financial Disclosure
 Report (OGE form 450) via NIH Ethics Enterprise System (NEES)
- ACRWH 2019 slate is first to use new system
- Conflict of Interest (COI) updates will be pre-populated with data from previously filed forms





Saluting Retiring Member



Rachel Jones, Ph.D., R.N.
Associate Professor
School of Nursing
Northeastern University

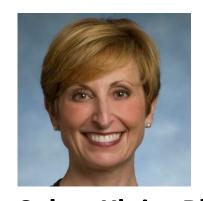




Scott Hultgren, PhD
Helen L. Stoever Prof. of Molecular
Microbiology; Dir., Center for Women's
Infectious Disease Research, Washington
Univ. School of Medicine in St. Louis



Michelle Robinson, DMD, MA
Interim Dean
School of Dentistry, University of Alabama
at Birmingham



Sabra Klein, PhD

Assoc. Prof. Dept. of Molecular

Microbiology and Immunology, Dept. of
Biochemistry and Molecular Biology,
Bloomberg School of Public Health, Johns
Hopkins University



Alyson McGregor, MD, MA
Assoc. Prof. of Emergency Medicine,
Director, Division of Sex and Gender in
Emergency Medicine, Alpert Medical
School, Brown University



Judy Regensteiner, PhD
Director, Center for Women's Health
Research, School of Medicine, Univ. of
Colorado, Anschutz Medical Campus



Neel Shah, MD, MPP
Asst. Prof., Obstetrics, Gynecology, and
Reproductive Biology, Harvard Medical
School; Dir., Delivery Decisions Initiative,
Ariadne Labs, Harvard University



49th Meeting of the NIH Advisory Committee on Research on Women's Health

Janine Austin Clayton, M.D.

NIH Associate Director for Research on Women's Health Director, Office of Research on Women's Health National Institutes of Health

Director's Report October 23, 2019





Elijah Cummings

United States House of Representatives | Maryland

1951 - 2019







Retiring



Linda S. Birnbaum, Ph.D., D.A.B.T., A.T.S. Director



National Institute of Environmental Health Sciences Your Environment. Your Health.





Ann Cashion, PhD, RN, FAAN Acting Director



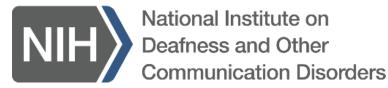




Congratulations!



Debara L. Tucci, M.D., M.S., M.B.A. Director





Santa Tumminia, Ph.D. Acting Director









Susan K. Gregurick, Ph.D.



Meet the new Director of Office of Data Science Strategy

Mission

To catalyze new capabilities in biomedical data science by providing trans-NIH leadership and coordination for modernization of the NIH data resource ecosystem, development of a diverse and talented data science workforce, and building strategic partnerships to develop and disseminate advanced technologies and methods.





NORA D. VOLKOW, M.D.

National Institute on

Drug Abuse



PATRICIA FLATLEY BRENNAN, R.N., PH.D. National Library of Medicine



National Center for
Complementary and
Integrative Health



ANDREA T. NORRIS
Center for Information
Technology



SANTA TUMMINIA, PH.D

National Eye Institute*



MARTHA J. SOMERMAN, D.D.S., PH.D.

National Institute of Dental and Craniofacial Research



DEBARA L. TUCCI, M.D., M.S., M.B.A.

National Institute on Deafness and Other Communication Disorders



DIANA W. BIANCHI, M.D.

Eunice Kennedy Shriver
National Institute of Child
Health and Human
Development



NONI BYRNES, PH.D.

Center for Scientific Review







NORA D. VOLKOW, M.D.

National Institute on

Drug Abuse



PATRICIA FLATLE BRENNAN, R.N., Ph National Library of Med



ICs with woman DDs



ANDREA T. NORRIS

Center for Information

Technology



SANTA TUMMINIA, PH.D

National Eye Institute*



MARTHA J. SOMERMAN, D.D.S., PH.D.

National Institute of Dental and Craniofacial Research

DI

Nati an



13 of 27 ICs have woman deputy directors!

Disorders

Development



NONI BYRNES, PH.D.

Center for Scientific Review











Enhance and expand women's health research

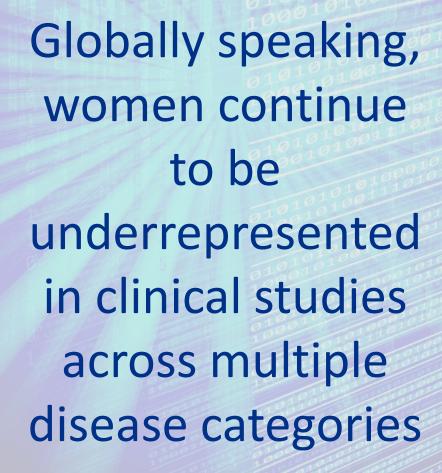


Include women and minority groups in clinical research

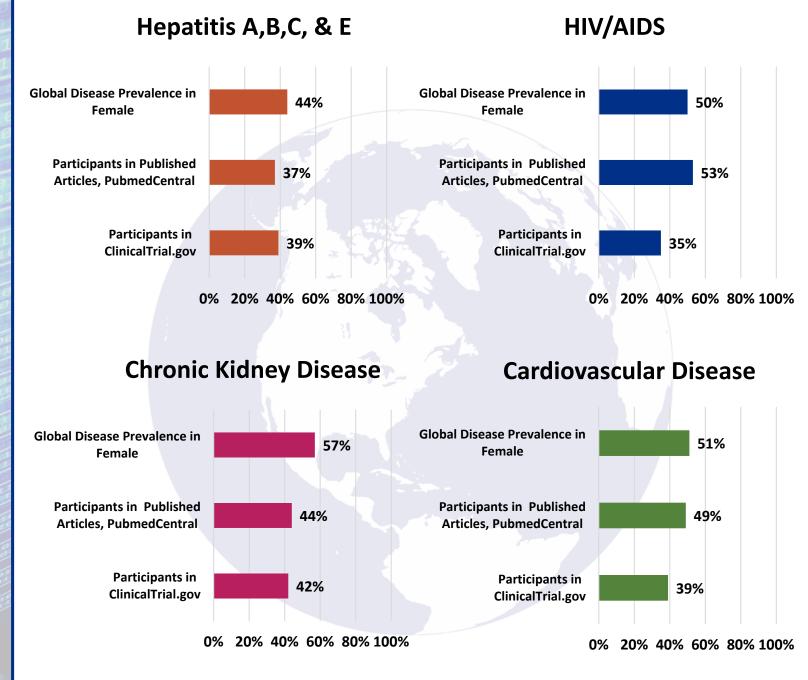


Promote career advancement for women in biomedical careers





Automated analyses:
43,135 articles
13,165 clinical trial records





Another way to improve health outcomes is to develop objective point-of-care diagnostic tools

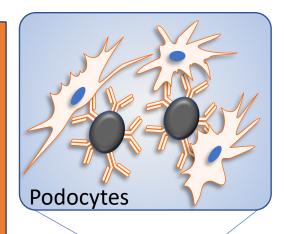
Elevating Standards of Care via Objective Diagnostic Tools

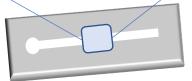
				Pretest probability for preeclampsia			
Potential Biomarkers for Preeclampsia				5%		25%	
Test	Cutoff	Sensitivity (%)	Specificity (%)	Positive predictive value (%)	Negative predictive value (%)	Positive predictive value (%)	Negative predictive value (%)
sFLT-1*	7463 pg/mL	83	58	9.4	98.5	39.7	91.1
	9795 pg/mL	71	68	10.5	97.8	42.5	87.6
Endoglin*	21.3 ng/mL	94	58	10.5	99.5	42.7	96.7
	24.6 ng/mL	86	63	10.9	98.8	43.7	93.1
Serum PIGF [†]	84.92 pg/mL	74	58	8.5	97.7	37.0	87.0
	102.7 pg/mL	86	47	7.9	98.5	35.1	91.0
Urine PIGF [†]	1.22 pg/mL‡	79	50	7.7	97.8	34.5	87.7
	2.18 pg/mL [‡]	86	38	7.5	98.4	33.9	90.4
Podocin*	0.85 cells [‡]	100	100	100.0	100.0	100.0	100.0
Nephrin*	0.75 cells [‡]	93	75	16.4	99.5	55.4	97.0
Podocalyxin*	0.83 cells [‡]	93	75	16.4	99.5	55.4	97.0
Synaptopodin*	1.11 cells [‡]	93	81	20.5	99.5	62.0	97.2

Point-of-care device to identify patients at risk for preeclampsia

Goal:

Development of a peptide-modified bead POC device to unambiguously diagnose preeclampsia in the 2nd trimester before women are symptomatic (SBIR-R44)









https://projectreporter.nih.gov/project_info_history.cfm?aid=9789872&icde=0



Outline

- I. Scientific Collaborations
- II. Research Programs
- III. SABV Update
- IV. Women in Biomedical Careers
- V. Building Connections



NIH Institute & Center Mission Areas

ORWH Mission

- To enhance research related to diseases, disorders, and conditions affecting women
- To help ensure that women are appropriately represented in biomedical research supported by the NIH
- To improve the advancement of women in biomedical careers

Trans-NIH
Strategic Plan
for Women's Health
Research

NIH Vision

- Sex and gender influences are integrated into the biomedical research enterprise
- Every woman receives evidence-based disease prevention and treatment tailored to her own needs, circumstances, and goals
- Women in science careers reach their full potential



ORWH contributes \$1M to planning grants to study effects of pre/postnatal opioid exposure on brain development

R34 planning grants for 3 of 6 sites for the HEALthy Early Development Study

- Emory, Case Western, OSU Ctr. for Health Sci.
- To refine design of this large-scale, 6-site study of maternal substance use effects on children's brain, cognitive & emotional development (prenatal → mid-childhood)

R34 feasibility study of technology to minimize motion-induced biases in MRI of young, opioid-affected cohorts

- University of Pennsylvania
- Addresses in-scanner motion by children, which is exacerbated by the association between prenatal opioid exposure & ADHD









ORWH contributes \$1M to planning grants to study effects of pre/postnatal opioid exposure on brain development

R34 planning grants for 3 of 6 sites for the HEALthy **Early Development Study**

- Emory, Case Western, OSU Ctr. for Health Sci.
- To refine design of this large-scale, 6-site study of maternal substance use effects on children's brain, cognitive & emotional development (prenatal → mid-childhood)

R34 feasibility study of technology to minimize motion-induced biases in MRI of young, opioidaffected cohorts

- University of Pennsylvania
- Addresses in-scanner motion by children, which is exacerbated by the association between prenatal opioid exposure & ADHD





















Study finds endometriosis research underfunded¹

Highly prevalent (10% of women of reproductive age), painful, costly

- Yet, research is underfunded and disease, under-researched
- Slow advance in much-needed diagnostic and treatment options

Lack of awareness among patients, providers and public

- Societal normalization of women's pain
- Stigma around menstrual issues



¹As-Sanie S. et al. 2019. *Am J Obstet Gynecol*. 221(2):86-94. doi: 10.1016/j.ajog.2019.02.033

²Tandon HK, Stratton P, Sinaii N, et al. 2019. *Reg Anesth Pain Med* Epub ahead of print: doi:10.1136/rapm-2019-100529



Study finds endometriosis research underfunded¹

Highly prevalent (10% of women of reproductive age), painful, costly

- Yet, research is underfunded and disease, under-researched
- Slow advance in much-needed diagnostic and treatment options

Lack of awareness among patients, providers and public

- Societal normalization of women's pain
- Stigma around menstrual issues

Botox relieves endometriosisassociated pain, spasms, disability²

Open-label proof-of-concept case series.

Participants: women with endometriosis³ and chronic pelvic pain persisting despite surgical and hormonal treatments



¹As-Sanie S. et al. 2019. *Am J Obstet Gynecol*. 221(2):86-94. doi: 10.1016/j.ajog.2019.02.033

²Tandon HK, Stratton P, Sinaii N, et al. 2019. *Reg Anesth Pain Med* Epub ahead of print: doi:10.1136/rapm-2019-100529



Study finds endometriosis research underfunded¹

Highly prevalent (10% of women of reproductive age), painful, costly

- Yet, research is underfunded and disease, under-researched
- Slow advance in much-needed diagnostic and treatment options

Lack of awareness among patients, providers and public

- Societal normalization of women's pain
- Stigma around menstrual issues

¹As-Sanie S. et al. 2019. *Am J Obstet Gynecol*. 221(2):86-94. doi: 10.1016/j.ajog.2019.02.033

Botox relieves endometriosisassociated pain, spasms, disability²

Pain				
Prior to	Moderate (median VAS score 5/10) varied widely (VAS score range: 2–7)			
4-6 weeks after	 All reported reduction in pain (median VAS=2, range 0–5/10, p<0.0001) 11 of 13 rated pain as absent or mild 			
Spasms				
Prior to	11 of 13 had palpable spasm in at least 4 pelvic floor muscles			
Follow-up	Not detectable or less widespread			
Disability				
Prior to	•5, moderately disabled; 2, severely disabled; 1, crippled			
Follow-up	• 6 of 8 experienced improvement			

²Tandon HK, Stratton P, Sinaii N, et al. 2019. *Reg Anesth Pain Med* Epub ahead of print: doi:10.1136/rapm-2019-100529



Women's Health Issues partnered with VA to highlight importance of sex & gender differences in veterans affairs research

- June 25th issue supported by VA Cooperative Studies Program
- Features research reports & commentaries on growing number of women vets and their unique health needs
- Commentary by Bevans & Clayton: Integrating the Influence of Sex and Gender in Research: Keeping Women Veterans in Focus*
 - Quality medical care stems from integrated consideration of military-related health needs and influence of sex & gender on health
 - Combat stress & exposure affect women differently than men
 - How do combat exposures in a woman's 20s affect her health decades later?
 - Are sex differences among veterans related to their service or to the same sex differences civilians have, or to a complex combination of factors?

^{*}doi.org/10.1016/j.whi.2019.05.001







Center for Devices and Radiological Health

Health of Women Program Strategic Plan









Center for Devices and Radiological Health

Health of Women Program Strategic Plan





Announcing CDRH's Health of Women Program Strategic Plan: Why It Matters for All Women and Their Access to Safe and Effective Medical Devices

The FDA's Center for Devices and Radiological Health (CDRH) Health of Women Program recognizes the importance of addressing sex- and gender-specific issues in medical technology design, development, and implementation. Our program extends beyond reproductive and gynecologic health. Our approach is comprehensive – it considers a woman's entire body.

CDRH's Health of Women Program:

- Explores unique issues related to the performance of medical devices in women
- Improves analysis and communication of sex- and gender-specific data to better assure the safe and effective use of medical devices
- Develops and implements health science programs, strategies and initiatives focused on women's health issues across CDRH

Read the Strategic Plan

The FDA seeks public feedback on CDRH's Health of Women Program's new Strategic Plan through a public docket in the Federal Register under docket number FDA-2019-N-3804. The last day to submit comments to the docket is December 23, 2019. Your input will help shape how CDRH implements the program.

Submit Comments

Questions?

If you have questions about CDRH's Health of Women Program contact: CDRHHealthofWomen@fda.hhs.gov



25



21st Century Cures Act advances research on the health of women

- Inclusion policy updates
- IC strategic plans must take into account women and minorities and include details on reduction of health disparities for women and minorities
- CCRWH reconstituted to be composed of IC Directors or their senior-level designees

Public Law 114-255, Sec. 2031 & 2038





NIH-defined phase III clinical trials and applicable clinical trials* must report results –

- stratified by sex/gender, race and ethnicity in ClinicalTrials.gov
 Clinical research studies should include individuals of all ages
- unless there are sci. or ethical reasons not to



*Subset of clinical trials subject to FDA Amendments Act



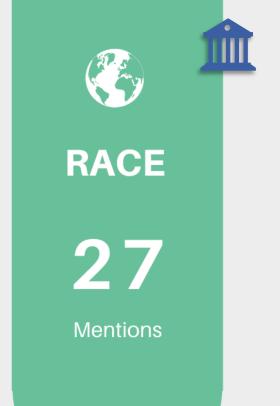


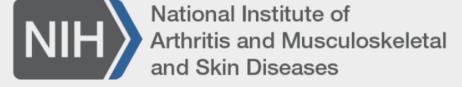
SIGN OF PROGRESS











STRATEGIC PLAN FISCAL YEARS 2020-2024

Turning Discovery Into Health

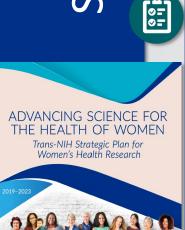
- "Health and Disease in Diverse Populations" theme
- "Advancing and Accelerating Systemic Rheumatic and Autoimmune Diseases Research" goal -- a women's health research priority



Working across NIH to advance the health of women im









NIH Institutes and Centers





Office of Research on Women's Health









Working across NIH to advance the health of women



Trans-NIH trategic Plan



Engines of mission-focused research relevant to the health of women



Reconstituted CCRWH: Coordinating Committee on Research on Women's Health Nexus for driving synergistic research priorities

Office of Research on Women's Health

Focal point for coordinating women's health research via policies & signature programs





Significant

Innovative

Synergy

Impact



"real public health need"

"more efficient and costeffective if we do it together"

"an idea that hasn't gotten our focus"

"benefit from increased, focused trans-NIH effort"

"think beyond what's right in front of us"



The NIH CCRWH generates bold ideas on women's health



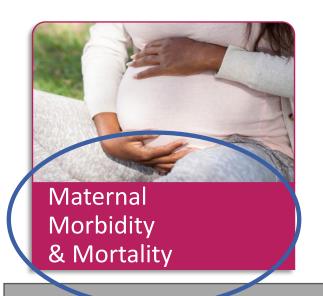


















Photo Credit: https://pixabay.com



ANNOUNCING

NIHAPPLE&

WOMEN'S HEALTH STUDY

Collaboration will permit researchers to study conditions, including:

- Pregnancy
- Infertility
- Polycystic ovary syndrome (PCOS)
- Menopausal transition and
- Osteoporosis.

Apple's new Research App will help users participate in the study. NIEHS will provide expert advice and data analysis.



W W W Women of Health Compelling Challenge for the 9 Addressing





Tara Schwetz, Ph.D.

Dorothy Fink, M.D.









Sarah Foster, M.P.H. Johannie Escarne, M.P.H.



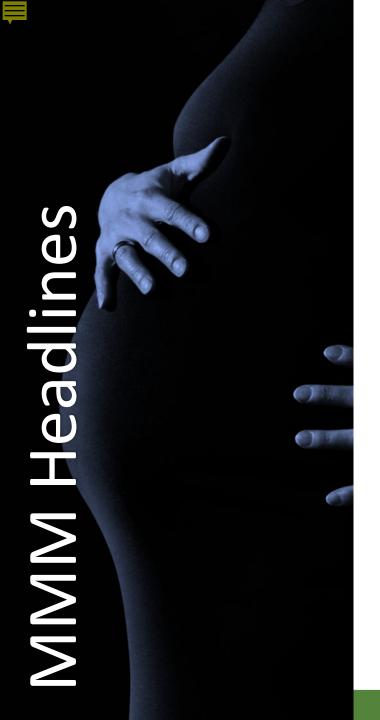




PREGNANCY & **MATERNAL** CONDITIONS THAT INCREASE RISK OF **MORBIDITY** AND **MORTALITY**

Meeting, May 19-20, 2020

NICHD - ORWH - ICs



ORWH-cofunded study finds life course impact of pregnancy complications

Women who experience complications (such as preterm births & preeclampsia) during 1st pregnancy are developing hypertension soon after – *some within 3 years*

- They're nearly 2X more likely than women without complications to develop hypertension later
- 31% with at least one adverse outcome experienced chronic hypertension (v. 17% for those without)

Study underscores need for

- Greater focus on pregnancy histories
- Possibly, closer health monitoring & more lifestyle counseling to prevent hypertension



National Heart, Lung,

and Blood Institute

Haas DM et al. 2019. *Journal of the American Heart Association*. 8: e013092. doi.org/10.1161/JAHA.119.013092





Anne Lang Dunlop, MD, MPH





FY19 Sex/Gender Admin. Supp. explores role of fetal sex in maternal health

Cardiometabolic complications, including hypertensive disorders and GDM –

- Contribute to US's excessive rates of maternal mortality (MM) and racial disparity in MM
- Increases mothers' increased lifetime risk of CV and metabolic disease
- Risk factors & biomarkers can't adequately identify at-risk women
- Research will investigate whether:
 - Distinct lipidomic profiles in early and/or later pregnancy associate with cardiometabolic complications
 - Differences in lipidomic profile occur according to fetal sex
- Participants will be pregnant Black women 18-40

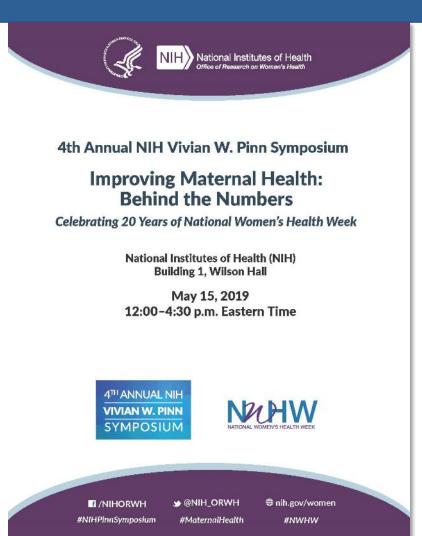
NICHD Strategic Plan 2020

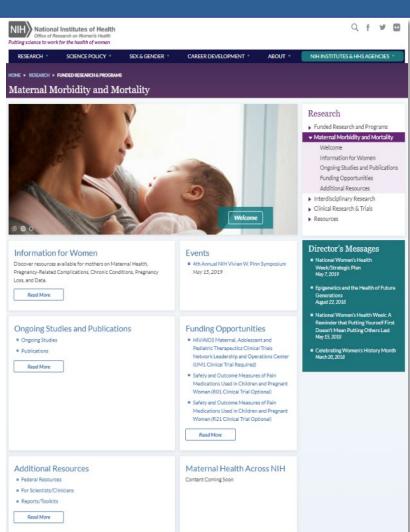
Healthy pregnancies. Healthy children. Healthy and optimal lives.

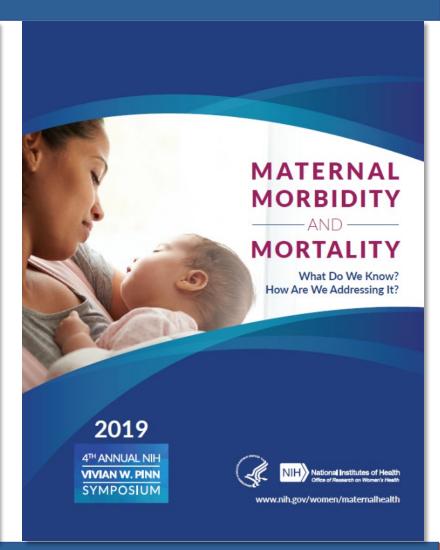
- Understanding the Molecular, Cellular, and Structural Basis of Development
- Promoting Gynecologic,
 Andrologic, and Reproductive
 Health
- Setting the Foundation for Healthy Pregnancies and Lifelong Wellness
- Improving Child and Adolescent Health and the Transition to Adulthood
- Advancing Safe and Effective Therapeutics and Devices for Pregnant and Lactating Women, Children, and People with Disabilities



ORWH coordinating resources to drive impact in maternal health







ORWH coordinating resources to drive impact in maternal health



4th Annual NIH Vivian W. Pinn Symposium

Improving Maternal Health: Behind the Numbers

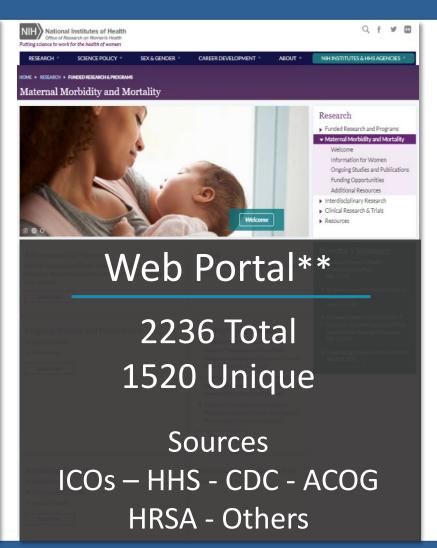
Celebrating 20 Years of National Women's Health Week

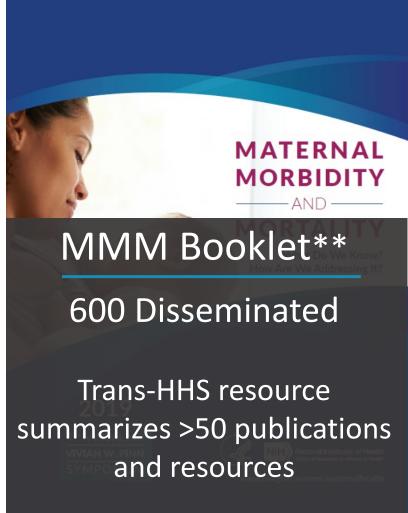
Symposium*

>680 people reached

- 113 in person
- 567 via videocast

Federal Representation: HRSA | CDC | FDA







Outline

- I. Scientific Collaborations
- II. Research Programs
- III. SABV Update
- IV. Women in Biomedical Careers
- V. Building Connections



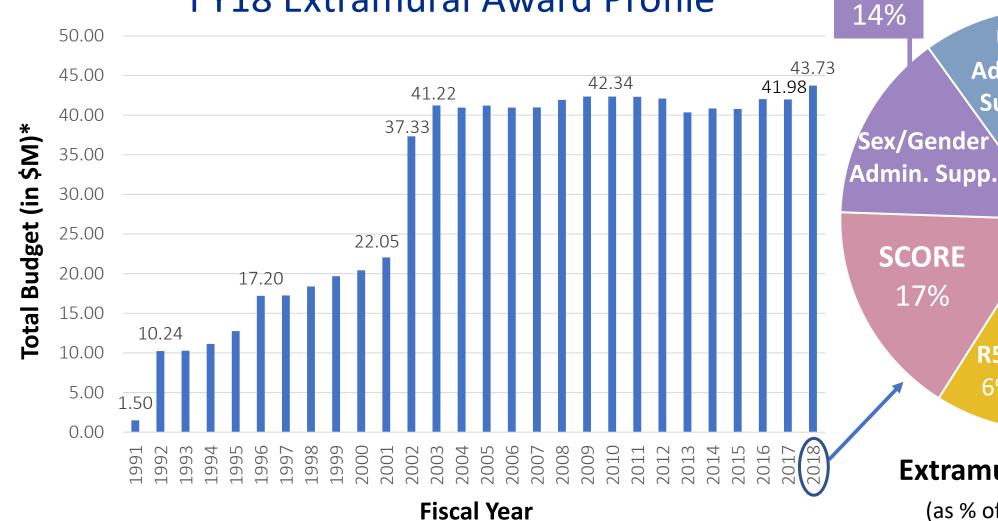


Advance rigorous research that is relevant to the health of women.









Extramural Award Profile

10%

U3

Admin.

Supp.

R56

6%

BIRCWH

30%

Other IC

Co-Funds

23%

(as % of Extramural Budget)

*Data not adjusted for inflation



 UCLA'S SCORE SEEKS TO UNDERSTAND SEX DIFFERENCES IN CARDIO-METABOLIC DISEASE







SCORE research on sex differences in MetSyn could improve diagnosis & treatment

Investigating sex differences in risk factors & treatments for Metabolic Syndrome, incl. obesity, insulin resistance/ diabetes, dyslipidemia

- Differences in susceptibility are known
- But underlying mechanisms, genetic and physiological, are poorly defined Investigating from multiple perspectives, such as effects of
- Estrogen
- XX vs. XY sex chromosome
- Genetic variation

Identifying factors that determine sex-specific risk may lead to better diagnosis & treatment for both sexes



R Intersection of Sex & Gender Influences on Health & Disease

ORWH FIRST!

ORWH's first RO1 is a major milestone. On the eve of our 30th Anniversary, With a \$1M contribution, ORWH is taking research on sex and gender influences to the next level.

INTERSECTION

R01 supports disease-agnostic research across scientific disciplines to understand how sex and gender factors intersect with health and disease.

NIH FIRST!

NIH's first RO1 on sex and gender. It reaffirms its commitment to advancing research of sex and gender influences and advancing ORWH's mission.

TRANS-NIH & STRATEGIC

A collaboration with 11 ICs, RO1 supports research that addresses Strategic Goal 1 of the Trans-NIH Strategic Plan for Women's Health Research.



Grant Award

NOV 25, 2019

Due date

MAY 2020

Advisory Council

RFA-OD-19-029 TIMELINE

NOV 25, 2020

Due date

MAY 2021

Advisory Council

NOV 26, 2021

Due date

MAY 2022

Advisory Council





NCCIH NIA NHGRI NIAAA NIAID NIDCR NIEHS NIMH NINR SGMRO



NIDA



Outline

- I. Scientific Collaborations
- II. Research Programs
- III. SABV Update
- IV. Women in Biomedical Careers
- V. Building Connections





Young women's cancer death rate is higher than young men's – incidence rate, substantially so

NIH Annual Report to the Nation on the Status of Cancer

- Overall, men fared worse their average annual incidence¹ and death² rates were higher
- But among young women, ages 20 to 49...
 - Death rate was 27.1 v. 22.8 among young men
 - Incidence rate was 203.3 v. 115.3 among young men
- Overall death rates in this age group are declining
 - But declining at faster rate among men: 2.3% v. 1.7%

https://seer.cancer.gov/report_to_nation/



¹ Per 100K people, 2011-2015

² Per 100K people, 2012-2016



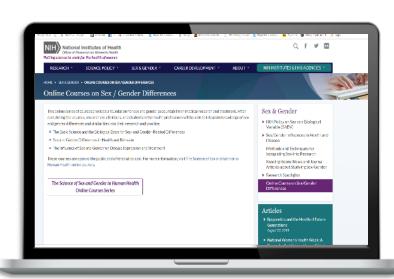
SABV DISSEMINATION



ORWH is developing courses to educate biomedical community on sex and gender

- Bench to Bedside: Integrating Sex & Gender to Improve Human Health (Updated)
 FDA Office of Women's Health
- Sex as a Biological Variable Primer* (New)



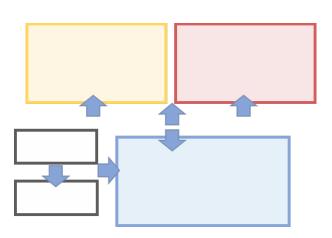






ORWH is developing comprehensive SABV evaluation tools

- Development of statistically reliable <u>evaluation tools</u>:
 - To assess SABV in grant applications
 - To identify relevant reviewer comments in summary statements
- Pilot testing of the analysis tools on select applications and corresponding summary statements
- Assessment of the inter-rater reliability of the tools
- Evaluation of the tools' utility, validity, and limitations
- Refine tools for large scale analysis





Study Reveals Sex-Based
Differences in the Development of
Brain Hubs Involved in Memory and
Emotion

ment Viso des present differently in males and females during solutions.

october spotlight on

of the Sat has been sex-based differences in the development of the hippocampus and amygdala.

These brain areas have been implicated in the piology of several mental disorders that impact the land teleplas differently. The findings, which appear in the journal *NeuroImage*, may help researchers better understand sex-based differences in the emergence of mental disorders during adolescence and early adulthood.

At ORWH's urging, ICs are increasingly highlighting studies that identify sex influences or differences

- NIMH press release promoted recently published Neurolmage article
 - Co-author: Armin Raznahan, inaugural speaker for Sex & Gender in Health & Disease Scientific Interest Group (SGHD SIG)
- NIMH and Director Joshua Gordon's Twitter accounts highlighted article

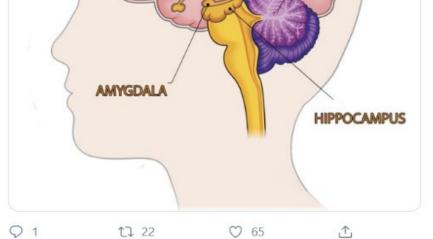
Fish AM et al. 2019. Sex-biased trajectories of amygdalo-hippocampal morphology change over human development. Neurolmage (available online) https://doi.org/10.1016/j.neuroimage.2019.116122





Study Reveals Sex-Based Differences in the Development of Brain Hubs Involved in Memory and





emergence of mental disorders during adolescence and early

At ORWH's urging, ICs are increasingly highlighting studies that identify sex influences or differences

- NIMH press release promoted recently published Neurolmage article
 - Co-author: Armin Raznahan, inaugural speaker for Sex & Gender in Health & Disease Scientific Interest Group (SGHD SIG)
- NIMH and Director Joshua Gordon's Twitter accounts highlighted article

adulthood.

Fish AM et al. 2019. Sex-biased trajectories of amygdalo-hippocampal morphology change over human development. Neurolmage (available online) https://doi.org/10.1016/j.neuroimage.2019.116122



Outline

- Scientific Collaborations
- Research Programs
- SABV Update
- Women in Biomedical Careers
- Building Connections



Stay tuned for NASEM report!

EXAMINE

- How women's participation varies across disciplines
- How intersection of race & gender impacts WOC
- What interventions have produced sustained improvements in representation and leadership
- Why effective interventions haven't been scaled up or adopted

DEVELOP

Actionable recommendations to improve representation and leadership











ACD Working Group on Changing the Culture to End Sexual Harassment

Working Group's Charge

Assess current state of sexual harassment allegation investigation, reporting, remediation, and disciplinary procedures at NIH-funded organizations;

Advise on oversight, accountability, and reporting measures for awardee institutions that will encourage a reduction in, and prevention of, sexual harassment in biomedical research laboratories;

Propose actions and policies that would promote a safe and inclusive culture at NIH-supported research conferences;

Suggest system-wide changes to culture and climate to prevent harassment and gender discrimination through diffusion of hierarchical environments by mentoring networks and committee-based advisement + strong and diverse leadership;

Develop strategies for encouraging research on anti-harassment policies, procedures, and training, as well as measures and evaluations of their effectiveness.

員

No More Manels

"When I consider speaking invitations, I will expect a level playing field, where scientists of all backgrounds are evaluated fairly for speaking opportunities. If that attention to inclusiveness is not evident in the agenda, I will decline to take part."

Francis S. Collins, M.D., Ph.D. Director, National Institutes of Health 06.12.19





闡

No More Manels

"When I consider speaking invitations, I will expect a level playing field, where scientists of all backgrounds are evaluated fairly for speaking opportunities. If that attention to inclusiveness is not evident in the agenda, I will decline to take part."

Francis S. Collins, M.D., Ph.D. Director, National Institutes of Health 06.12.19



Media Response

NBC, 6/13

14M

Twitter*

Engagements 22K

Impressions 1.69M

ORWH

Twitter

Impressions 4,961

LinkedIn

Views 3,340

*@NIHDirector





Outline

- Scientific Collaborations
- Research Programs
- SABV Update
- Women in Biomedical Careers
- Building Connections



Media coverage advances case for women's health research



German Public Radio, July 23, 2019

"Neuroscience: Do too many male experimental animals distort the results?" Interview with Chyren Hunter, Ph.D. reached 2M listeners.



Lasker Foundation, June 17, 2019

"Stopping the leaks." About the Action Collaborative on Preventing Sexual Harassment in Higher Education.

C-SPAN

Research!America's National Health Research Forum, Sep. 5, 2019

"Women Researchers Leading Discovery" panel discussion.



The Washington Post, Oct. 19, 2019

"Women are more than twice as likely as men to suffer from PTSD. Studies are underway to find out why"



PUBLICATIONS





VICTORIA CARGILL, M.D. & JANINE A. CLAYTON, M.D.

Schweinhart A. 2019. Addressing Health Challenges of Women Across the Life Course: Summary of the Women's Health 2018 Preconference Symposium. *J Womens Health* 28(6):741-746. doi: 10.1089/jwh.2019.29027.pcss

MARGARET BEVANS, PH.D., RN, FAAN & JANINE A. CLAYTON, M.D.

Integrating the Influence of Sex and Gender in Research: Keeping Women Veterans in Focus. Women's Health Issues 29: S9-11. doi.org/10.1016/j.whi.2019.05.001

ELENA GORODETSKY, M.D., PH.D.

Bowers ME et al. 2019. Relations between catechol-O-methyltransferase Vall58Met genotype and inhibitory control development in childhood. Developmental Psychobiology E-published. doi:10.1002/dev.21901

DAVID A. THOMAS, PH.D.

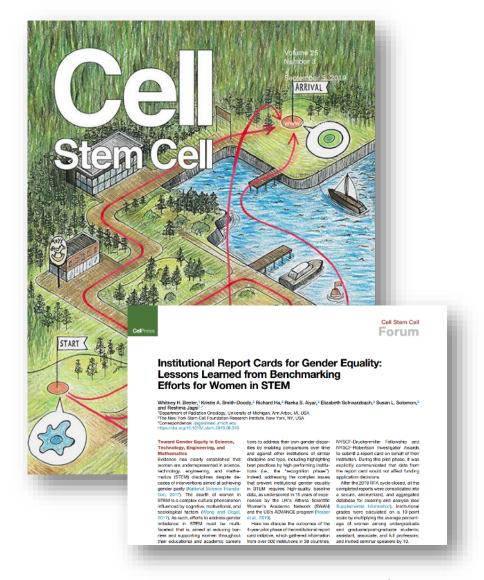
Spaniol ED et al. 2019. Addressing the opioid crisis: social and behavioral research contributions at the National Institutes of Health. *Translational Behavioral Medicine*, doi: 10.1093/tbm/ibz038.



WOMEN'S HEALTH IN FOCUS AT NIH



Fall Issue's Top Story:
Stress, Its Effects on
the Health of
Women, and Stress
Mitigation



Circulation >18,000

Subscribe bit.ly/ORWHInFocus

Beeler et al. 2019. Institutional Report Cards for Gender Equality: Lessons Learned from Benchmarking Efforts for Women in STEM. *Cell Stem Cell* **25**(3): 306-310.



Upcoming Events

Dec. 11, 2019 BIRCWH Meeting

2020

March 19 NASEM Symposium on Consensus Study, NIHMay 4-7 OSSD Keynote and ORWH Travel Awards

May 12 Annual Vivian W. Pinn Symposium

May 19-20 Pregnancy & Maternal Conditions that Increase Risk of Morbidity & Mortality Symposium

April 20-21 50th ACRWH Meeting

Sep. 2-3 NIH Inclusion Across the Lifespan Workshop

Oct. 13 BIRCWH 20th Anniversary

Oct. 20 ACRWH Meeting

Oct. 21 30th Anniversary Scientific Symposium

1990 - 2020







