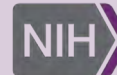


Director's Report

National Advisory Council on Minority Health and Health Disparities

May 11, 2018

Eliseo J. Pérez-Stable, M.D.
**Director, National Institute on
Minority Health and Health Disparities**



National Institute
on Minority Health
and Health Disparities

HHS Appointment: Robert R. Redfield, M.D.

- Named as the 18th Director of the Centers for Disease Control and Prevention on March 21
- Public health leader actively engaged in clinical research and clinical care of chronic human viral infections and infectious diseases, especially HIV
- Made several important early contributions to the scientific understanding of HIV, including the demonstration of the importance of heterosexual transmission and of active HIV replication in all stages of infection



NIH Departure: Richard Nakamura, Ph.D.

- Served as Director of the Center for Scientific Review, the gateway for NIH grant applications and their review for scientific merit, since 2011
- During his tenure, dealt with an increase in applications, multiple policy changes, and the 2014 government shutdown
- Noni Byrnes, Ph.D., will serve as acting director during the national search



NIH Departure: James F. Battey, Jr., M.D., Ph.D.

- Served as Director, National Institute on Deafness and Other Communication Disorders for 20 years and as a dedicated public servant for 35 years
- Leadership has contributed to NIH's research and training programs in hearing, balance, taste, smell, voice, speech, and language and led to the development of tools that have positively impacted the lives people with communication disorders and related conditions
- NIDCD Deputy Director Judith Cooper, Ph.D., will serve as acting director



All of Us National Enrollment Launch

- **All of Us Research Program** is a momentous effort to enroll more than 1 million volunteers and oversample communities that have been underrepresented in research
- **May 6** – was the official launch date marked by community activities in seven cities across the country, an online event and over 50 local activities in other communities



“All of Us is an ambitious project that has the potential to revolutionize how we study health, disease and medicine.”

– Health and Human Services Secretary Alex Azar

To learn more about the program and how to join, visit www.JoinAllOfUs.org



NIMHD News: Bench-to-Bedside Award

- Epidemiologist Chandra Jackson, Ph.D., M.S., Earl Stadtman Tenure-Track Investigator and NIMHD Adjunct Investigator, receives Bench-to-Bedside Award
- Program funds research teams seeking to translate basic scientific findings into therapeutic interventions for patients and to increase understanding of important disease processes
- Will use the funding to study how multiple metabolites, or products of metabolism, are linked with type 2 diabetes in a racially diverse population



NIMHD New Hires

- **Sriparna Sadhukhan, Biologist, Office of Intramural Research (contractor)**
- **Juliet Peña, M.D., M.P.H., Senior Health Science Writer, Office of Communications and Public Liaison (contractor)**



NIMHD Departure: Regina Smith James, M.D.

- Served as Director, Clinical and Health Services Research since 2016
- Transitioned on April 13 to become Vice President for Clinical Research at 2M Research Consulting Firm
- NIMH and NICHD prior to NIMHD
- Dr. Joyce Hunter is serving as Acting Director for Clinical and Health Services Research



Legislative Update: Public Law 115-141

- Consolidated Appropriations Act of 2018 signed into law on March 23, 2018 and extended government funding through September 30, 2018
- Provides \$37.3 billion for NIH, an increase of \$3 billion over FY 2017
- Within the \$3 billion, \$500 million is specifically for opioids research



NIMHD Budget Update

- NIMHD: \$303,200,000; Office of AIDS transfer \$1,908,000; FY 2018 funding level: \$305,108,000.
- Net funding level is \$17.4M (+6.1%) more than FY 2017
- Research Centers in Minority Institutions (RCMI) increased by \$3.0M (or 5.2%) for FY 2018:

“...continues to support the core mission of RCMI to develop new investigators from under represented communities and to conduct world-class biomedical research that emphasizes minority health and health disparities.”

- FY 2019 President’s Proposed Budget: \$280,545,000



National Minority Health Month: 2018 Activities



Minority Health 5K

April 11, 2018

~400 registered NIH employees, contractors and friends

NIMHD Twitter Chat

April 18, 2018

14,422,000 impressions
Partners: HHS Office of Minority Health; FDA Office of Minority Health

NIH Science Day

April 25, 2018

~500 middle and high school students from regional
Partners: National Library of Medicine; Mentoring in Medicine, Inc.



Director's Recent Presentations

National Hispanic Medical Association
Gaylord National Resort, Washington, D.C.
March 23, 2018

Breakthrough Thinking Conference
University of Nebraska Medical Center
Lincoln, NE, April 4, 2018

**Latino Health and Research Policy
Conference, U of Colorado**
Denver, CO, April 13, 2018

**Society of General Internal Medicine
Conference**
Denver, CO, April 11-13, 2018

National Minority Health Month
Department of Health and Human Services
April 17, 2018

**Resource Centers for Minority Aging
Research Meeting, Bethesda, MD, April 17,
2018**

**Research and Education Week: Diversity
Powers Innovation, Children's National and
Howard University, Washington, DC
April 19, 2018**

Translational Science 2018, ACTS
Washington, DC, April 20, 2018

Course for Clinical Research Fellows
NIH Campus, Bethesda, MD
April 25, 2018

**Board of Regents, National Library of
Medicine, Bethesda, MD, May 8, 2018**



NIH-Wide Minority Health and Health Disparities Strategic Plan Community Listening Sessions

Approach

- Four geographically diverse locations and three virtual sessions
- Convening community advocates, health professionals, faith-based groups and non-profit organizations representing NIH-designated health disparity populations

What's Next

- Strategic Plan draft for discussion – July
- NIH clearance process – September
- Final Plan – Fall 2018



Scientific Advances



National Institute
on Minority Health
and Health Disparities



Colorectal Cancer Screening Rates in Asians

Using Medical Expenditure Panel Survey National Data

- Whites (62.3%)
- Filipinos (55.0%)
- Chinese (50.9%)
- Asian Indians (48.6%)

TABLE 1. Colorectal Cancer Screening Prevalence by Datasets, Years, and Ethnicity

Data Source	Years	Ethnic Subgroup, CRCS Prevalence (%)						
		White	Japanese	Chinese	Filipino	South Asian	Korean	Vietnamese
California Health Interview Survey ^{a,b,c,d}	2001-2009	57.7-71.4 ¹⁰⁻¹³	56.0-66.2 ¹⁰⁻¹³	44.5-69.6 ¹⁰⁻¹³	41.7-65.9 ¹⁰⁻¹³	28.2-58.5 ¹⁰⁻¹³	27.9-62.0 ¹⁰⁻¹³	44.9-70.0 ¹³
Hawaii Behavioral Risk Factor Surveillance Survey ^{a,b,c,d}	2011-2014 ¹⁴	73.8	70.9	68.9	56.8	ND	ND	ND
Other local surveys ^{b,c,e,f}	2012, ¹⁵ 2014, ¹⁶ 2015 ²	ND	8.8	22.0-64.4	15.9	22.5	43.9	31.0-52.5

- Older age, having health insurance, and having a usual care clinician predicted CRCS across all ethnicities
- Different demographic, health care access, and health attitude predictors within each ethnic group were related to CRCS

Sy A.U., et al. *Cancer*. 2018.



Self-Reported Discrimination and Suicide Ideation in Older Chinese Americans

- Association of lifetime experience of racial discrimination and 30-day suicidal ideation was examined in 3,157 Chinese adults age 60+ in the Chicago area
- Persons reporting discrimination had 1.9 the odds of suicidal ideation compared to elders who did not, after controlling for social support, physical, cognitive and mental health functioning
- Clinicians need to be aware of the suicide risk associated with racial discrimination for Chinese elders
- Addressing discrimination may be a significant target for preventing suicide

Li L., et al. *Am J Geriatr Psychiatry*. 2018.



Oregon's Medicaid Transformation and Health Equity

- In 2012 Oregon transformed its Medicaid program, providing coverage through 16 coordinated care organizations (CCOs).
- The CCOs implemented a multipronged approach to address health disparities that included strategic planning, community health workers, and Regional Health Equity Coalitions
- Compared to pre-implementation levels, disparities in access to primary care decreased for African Americans and AI/ANs after CCOs
- Higher use of the Emergency Department in AA and AI/AN populations persisted; increasing access to primary care alone may not be sufficient
- Findings show the potential for state initiatives to address disparities through implementation of Medicaid programs

McConnell K., et al. *Health Affairs*. 2018.



Worksite Based Weight Loss Intervention in Native Hawaiians and Pacific Islanders

- Partnership for Improving Lifestyle Intervention (PILI), a weight loss intervention, showed improvements in weight, blood pressure, and 2.5X more likely to retain loss with maintenance phase
- PILI@Work randomized the **Maintenance Phase** to DVD or Peer Facilitators arms and showed similar retention and no differences for weight loss or weight maintenance
- Predictors of weight maintenance were attendance and baseline SBP

Weight Maintenance	Face-to-Face	DVD	Total
Successful	52.4%	64.5%	59.6%
Unsuccessful	47.6%	35.5%	40.4%
Retention Rates	74.1%	69.5%	71.9%

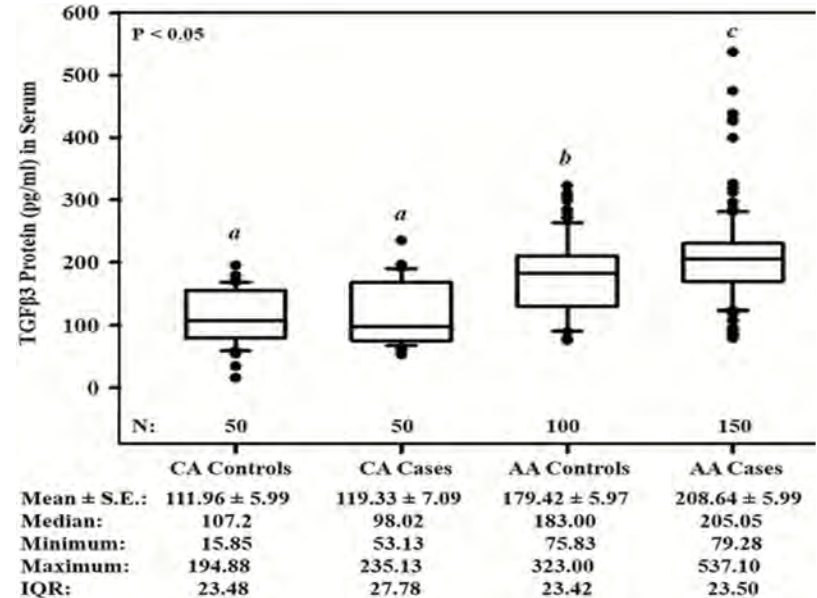
Conclusions: Low-cost delivery of PILI@Work can help address obesity, and early engagement and initial physical functioning are key to improving long-term weight loss outcomes

Ing C.T., et al. *Health Educ Behav.* 2018.



TGF β -Signaling Pathway and Prostate Cancer

- Role for transforming growth factor beta 3 (TGF β 3) in cancer metastases; role in prostate cancer in African American (AA) men has not been studied
- AA prostate CA patients had elevated serum levels of TGF β 3 protein compared with AA controls and White patients and controls
- TGF β 3 does not inhibit cell proliferation in AA-derived Prostate CA cell lines, but it does induce cell migration and invasion through activation of the PI3K pathway
- Increased TGF β 3 levels may be a mechanism driving development of aggressive PCa in AA patients

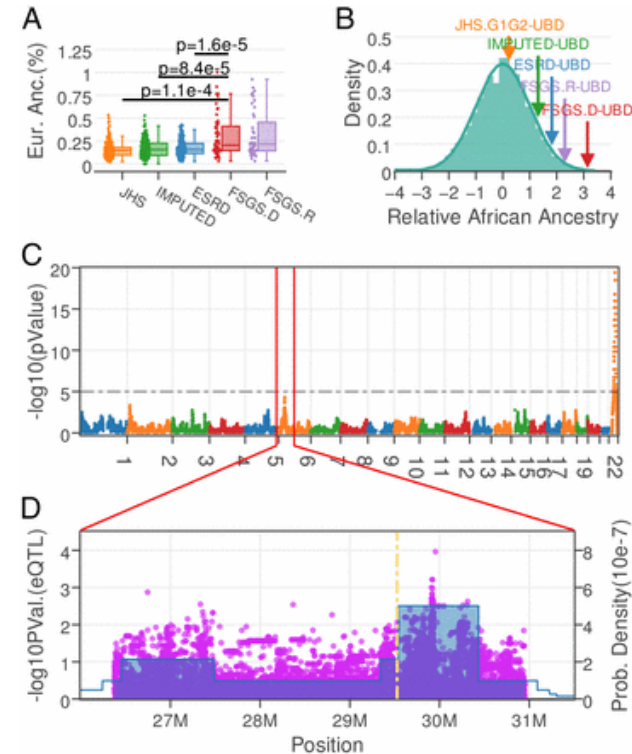


Elliott B., et al. *Carcinogenesis*. 2018.



Mechanism of *APOL1*-induced Kidney Disease Risk

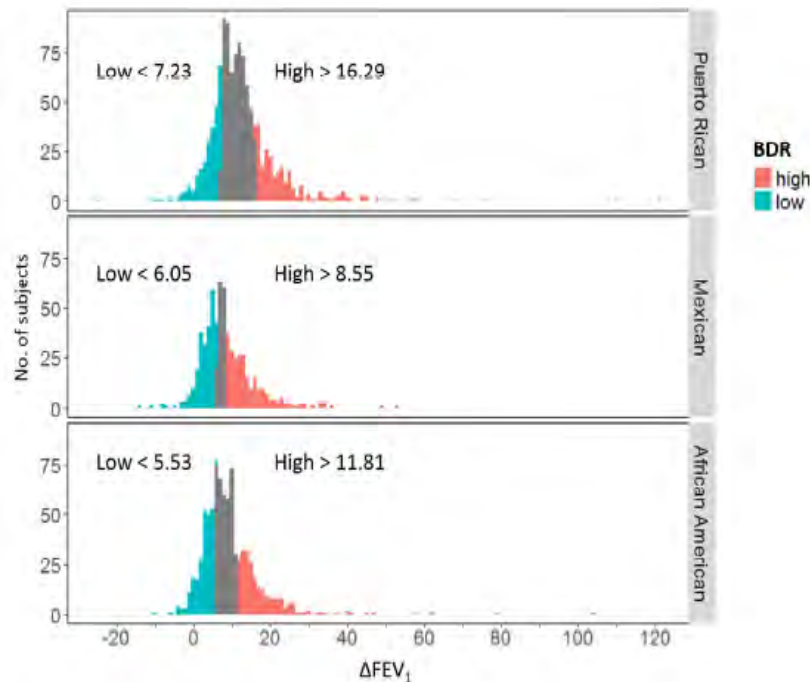
- Common variants in the *APOL1* gene drive higher rates of kidney disease in African Americans
- Genetic admixture mapping coupled with cell-based studies reveal a novel functional interaction between *APOL1* and the *UBD* gene
- *UBD* is a ubiquitin-like protein that targets other proteins for degradation; African ancestry correlates with lower levels of *UBD* expression
- Co-immunoprecipitation experiments show in vitro interaction between *APOL1* and *UBD* proteins
- These findings identify *UBD* as a possible modifier of kidney disease in African American individuals with the *APOL1* high-risk genotype



Zhang J.Y., et al. *PNAS*. 2018.

Genomic Analysis and Failure of Asthma Inhalers

- Significant racial/ethnic differences exist in the response to albuterol
- Whole-genome sequencing on 1,441 children from the “tails” of bronchodilator drug response distribution identified population-specific genetic variants near genes involved in lung capacity, immune response and airway inflammation
- Risk markers could help predict which children are likely to respond poorly to albuterol and other asthma drugs
- May guide development of new therapies that will be more effective in minority populations



Mak A., et al. *Am J Respir Crit Care Med.* 2018.



Division of Intramural Research



Division of Intramural Research Updates

- Plans to hire two tenure track investigators this fiscal year
 - Focus: breast cancer disparities with expertise in health informatics, systems modeling, geospatial information systems and CBPR
 - Focus: optimizing health technology for health disparity population with smoking cessation interventions, effective health messaging and mHealth behavioral interventions expertise



Receipt of Tobacco Direct Mail Coupons and Changes in Smoking Status: PATH Study

Nationally Representative Sample of 32,160 U.S. Adults, 2013-14

- Effect of tobacco promotion on tobacco use disparities
- 12.4% of nonsmokers and 36.2% of smokers received coupons
- Lower SES adults are more likely to receive tobacco coupons regardless of smoking status
- Receipt of tobacco discount coupons promoted progression to smoking (OR=1.76) and continuation of smoking (OR=1.34)

Choi K., et al. *Nicotine Tob Res.* 2017.



Banning Tobacco Price Promotions, Smoking-Related Beliefs and Behavior

Findings from the International Tobacco Control Four Country (ITC 4C) Survey: Canada, UK, Australia, and USA

- 4698 current and former smokers
- Tobacco Discount Coupons or price promotions
- Respondents exposed to promotions were more likely to associate value to smoking (calms when stressed OR=1.83) and be current smokers (OR=1.93)
- Policy Intervention: Ban on Tobacco price promotions

El-Toukhy S., Choi K., et. al., *Tobacco Control*. 2017



Development of Diabetes Typology Model

Differentiating Types 1/2 Diabetes Mellitus with National Survey Data

Data Sources

- National Health and Nutrition Examination Survey (NHANES) 2003-2004, 2005-2006, and 2009-2010
- 2010 Coronary Artery Risk Development in Young Adults (CARDIA) Survey

Resulting Diabetes Typology Model (DTM) classifies individuals into 3 classes (Type I/II or Atypical DM) based on clinical measures

- DTM also considers race and gender
- DTM can improve how large population-based studies can be used to examine behavioral and environmental factors associated with different types of DM

Bellatorre A., Jackson S., et. al., *PLoS ONE*. 2017.



Conceptual Framework to Outline Approaches to Eliminate Cancer Disparities

Linking Race, Cancer Outcomes, and Tissue Repair

Conceptual Framework

- Uses evolutionary perspective
- Defines common guiding principles for exploring the underlying causes of cancer health disparities
- Can guide development of future interventions



Byun J., et al. *Am J Pathol.* 2018.



Recent Grants and Programs



National Institute
on Minority Health
and Health Disparities



Addressing the Challenges of the Opioid Epidemic in Minority Health and Health Disparities Research in the U.S.

National Institute on Minority Health and Health Disparities (NIMHD)

- R01 (PAR-18-747) and R21 (PAR-18-745)

Participating ICs

- Office of Research on Women's Health (ORWH)
- National Institute on Aging (NIA)
- National Institute on Alcohol Abuse and Alcoholism (NIAAA)
- Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD)
- National Institute on Drug Abuse (NIDA)

Key Dates (first round)

- Receipt date: June 14
- Scientific Review: October and February 2019 Council



National Institute
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Fordham Research Ethics Scholars Visit NIMHD

March 1, 2018



Celia B. Fisher, Ph.D.

Fordham University
Marie Ward Doty University Chair in
Ethics; Professor of Psychology
Director Center for Ethics Education
Director, HIV/Drug Abuse Prevention
Research Ethics Institute

***Ethical Issues within Minority
Health and Health Disparities***



Alana Gunn, Ph.D., M.S.W.

Binghamton University,
Assistant Professor

***Exploring Reentry and Health
Disparities for Formerly
Incarcerated Women***



Faith Fletcher, Ph.D.

University of Alabama at Birmingham
School of Public Health
Assistant Professor

***Strategies to Alleviate HIV-
Related Health Disparities
among African American
Women and Adolescent Girls***



Nicole Overstreet, Ph.D.

Clark University,
Assistant Professor

***Ethical Considerations in HIV
and IPV Research: Centering
the Voices of African American
Women***



Scientific Workshop on Sleep Disparities June 20-21

Co-sponsoring workshop with NHLBI to further advance the field

Mechanisms and Consequences of Sleep Disparities in the U.S.

PAR-17-234/235 (R01/R21)

Examine underlying mechanisms of sleep deficiencies and how they may contribute to disparities in health outcomes: 2 awards in FY2017

- Predicting Sleep, Smoking and Lung Health Disparities in at-risk Black African American Adults (R01 MD012734-01)
- Sleep and Circadian Mechanisms Contributing to Disparity in Prevalence of Hypertension Between Black and White Americans (R01 HL142064-01)



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