Clinical Trial Diversity February 24, 2021

Moderator:

Kristin West, Director, Research Ethics & Compliance, COGR

Panelists:

Milena Lolic, MD, MS

Office of Chief Scientist
Office of the Commissioner, FDA

Robert Fullilove, EdD

Associate Dean for Community & Minority Affairs Professor of Clinical Sociomedical Sciences Co-Director, Cities Research Group Columbia University

• Efren Flores, MD

Assistant Professor of Radiology, Harvard Medical School Officer, Radiology Community Health & Equity Radiologist, Thoracic & Emergency Divisions Faculty, The Mongan Institute Massachusetts General Hospital

Martha Jones, MA, CIP

Vice President, Human Research Affairs Mass General Brigham

Megan Kasimatis Singleton, JD, MBE, CIP

Associate Dean, Human Research Protections and Director of the Human Research Protections Program Johns Hopkins University School of Medicine





Advancing Trials Diversity Through Data Transparency

Milena Lolic, M.D., M.S. OCS-FDA

Council on Governmental Relations Virtual Meeting February 24, 2021



Disclaimer

- This presentation represents the personal opinions of the speaker and does not necessarily represent the views or policies of FDA
- No conflicts of interest to declare



Judging the Trial Data



- Rare disease
- Screen failure rates
- Barriers
- Drop-out rates
- Limited subpopulation conclusions



Guidance Documents for Industry

Contains Nonbinding Recommendations

Collection of Race and Ethnicity Data in Clinical Trials

Guidance for Industry and Food and Drug Administration Staff

Document issued on October 26, 2016

For questions about this document, contact the FDA Office of Minority Health at 240-402-5084 or omb 2 fda hhs.gov.

U.S. Department of Health and Human Services (HHS)
Food and Drug Administration (PDA)
Office of the Commissioner (OC)
Office of Minority Health (OMH)
Office of Women's Health (OWH)
Center for Drug Evaluation and Research (CDER)
Center for Belogics Evaluation and Research (CDER)
Center for Devices and Radiologic Health (CDER)

October 2016 Clinical Medical Contains Nonbinding Recommendations

Evaluation and Reporting of Age-, Race-, and Ethnicity-Specific Data in Medical Device Clinical Studies

Guidance for Industry and Food and Drug Administration Staff

Document issued on September 12, 2017.

The draft of this document was issued on June 20, 2016.

For questions about this document regarding CDRH-regulated devices, contact CDRH at 301-796-5900 or CDRHPatientDiversity@fda.hhs.gov or CDRHClinicalEvidence@fda.hhs.gov

For questions about this document regarding CBER-regulated devices, contact the Office of Communication, Outreach, and Development (OCOD) at 1-800-835-4709 or 240-402-8010.

U.S. Department of Health and Human Services Food and Drug Administration

FDA U.S. FOOD & DRUG

Center for Devices and Radiological Health

Center for Biologics Evaluation and Research

Enhancing the Diversity of Clinical Trial Populations — Eligibility Criteria, Enrollment Practices, and Trial Designs Guidance for Industry

DRAFT GUIDANCE

This guidance document is being distributed for comment purposes only.

Comments and suggestions regarding this death document should be submitted within 60 days of publication in the Packers' Regulary of the notice amounting the availability of the death guidance. Submit electronic comments to https://www.regulations.gov/Submittelectronic comments to https://www.regulations.gov/Submittelectronic comments to the Dockets Management Staff (HEA-805). Food and DDY 42 Administration, 5430. Fullers Lane, Rm. 1061, Rockville, MD 20832. All comments should be identified with the docket manufers tolded in the notice of availability that redshibles in the Packers Restrates.

For questions regarding this draft document, contact (CDER) Ebla Ali-Ibrahim, 301-796-3691 or (CBER) Office of Communication, Outreach and Development, 800-835-4709 or 240-402-9010.

> U.S. Department of Health and Human Services Food and Drug Administration Center for Drug Evaluation and Research (CDER) Center for Biologics Evaluation and Research (CBER)

> > June 2019 Clinical/Medical

HHHMMINT.



Drug Trials Snapshots Transparency effort since 2015

- Web-based information about participation in clinical trials that supported the FDA approval of new drugs*
- Includes trial design, overall and subgroup assessments of safety and efficacy
- Dual format (for consumers and professionals)

^{*}New Molecular Entities and original Biologic Licensing Applications



DRUG TRIALS SNAPSHOTS



Previous 1 2 3 4 5 ... 28 Next

earch:					Export Excel	Show	10 🗸	entries
Drug Trials Snapshot	Active Ingredient \$\phi\$	Date of FDA Approval	-	What is it Approved For			Prescribing Information	\$
ACCRUFER	ferric maltol	July 25, 2019		Treatment of low iron stores			Accrufer	
ADAKVEO	crizanlizumab-tmca	November 15, 2019		Treatment of vasooclusive crises in parcell disease.	le	Adakveo		
ADDYI	flibanserin	August 18, 2015		Treatment of acquired, generalized hyp desire disorder (HSDD) in premenopaus		Addyi		
ADLYXIN	lixisenatide	July 27, 2016		Improvement of blood sugar control in diabetes mellitus (DM) type 2 when use diet and exercise)	Adlyxin		
AEMCOLO	rifamycin	November 16, 2018		Treatment of traveler's diarrhea in adul	ts		Aemcolo	
AIMOVIG	erenumab-aooe	May 17, 2018		Preventive treatment of migraine in adu	ılts		Aimovig	
AJOVY	fremanezumab-vfrm	September 14, 2018		Preventive treatment of migraine in adults			Ajovy	
AKLIEF	trifarotene	October 4, 2019		For the topical treatment of acne vulga years of age and older)	Aklief		
AKYNZEO	fosnetupitant and palonosetron	April 19, 2018		Prevention of the nausea and vomiting away or later in adults receiving certain medicines (chemotherapy)	ight	Akynzeo		
ALECENSA	alectinib	December 11, 2015		Treatment of metastatic non-small cell	lung cancer		Alecensa	

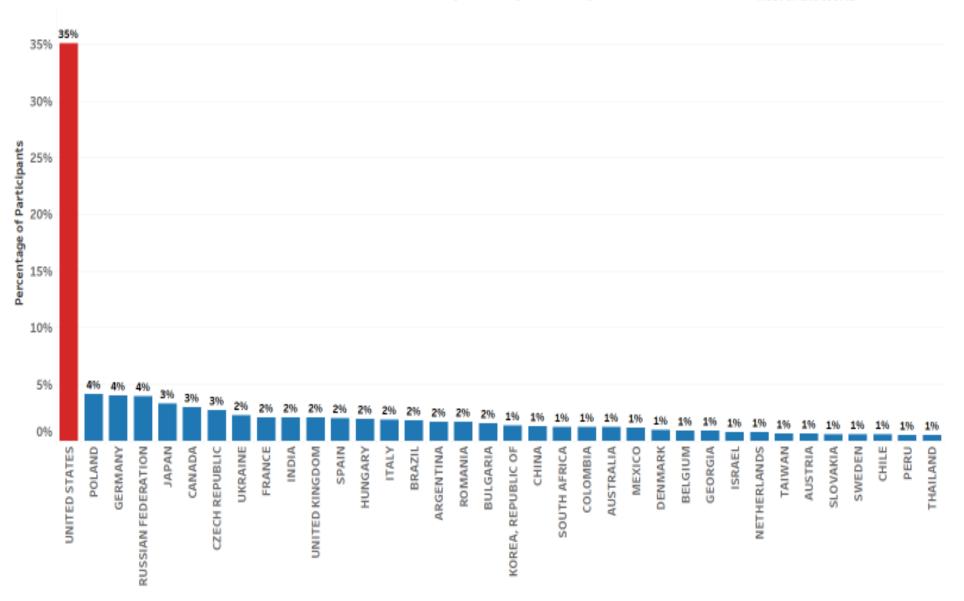


DTS Summary 2015-2020

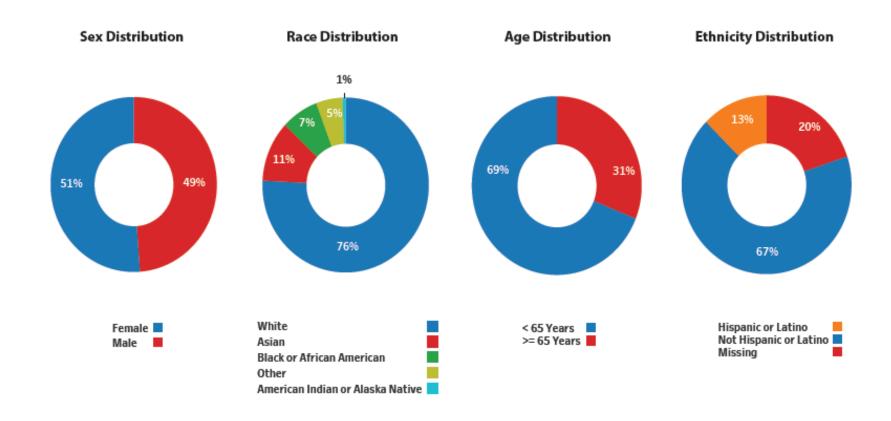
	WOMEN	WHITE	ASIAN	BLACK or AA	HISPANIC	AGE 65 and OLDER	USA
2015	40%	79%	12%	5%	-	37%	28%
2016	48%	76%	11%	7%	-	21%	43%
2017	55%	77%	11%	7%	14%	32%	34%
2018	56%	69%	10%	11%	14%	15%	47%
2019	72%	72%	9%	9%	18%	36%	40%
2020	56%	75%	6%	8%	11%	30%	54%





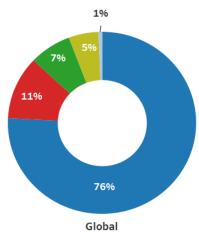


Global Demographics

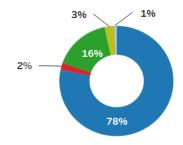


www.fda.gov

Race Distribution

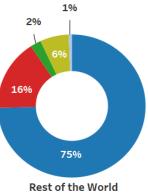


Total Participants = 292,537 (Country data missing for 229 participants)



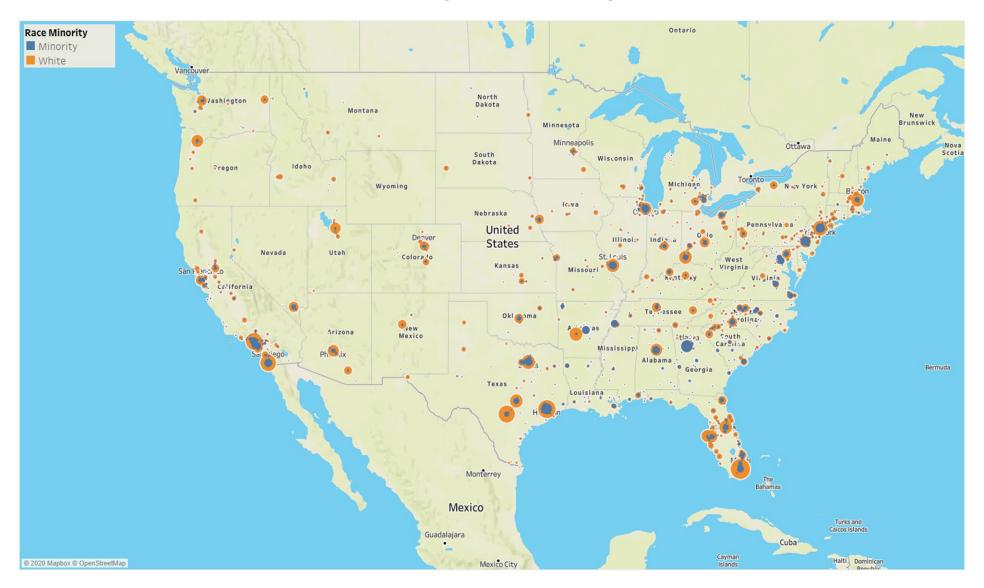
United States
Total Participants = 102,595





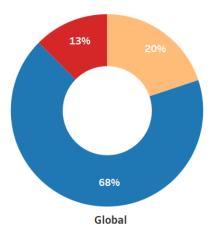
Total Participants = 189,942

US Participation by Race

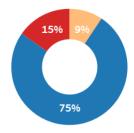


www.fda.gov 15

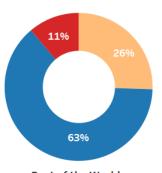
Ethnicity Distribution



Total Participants = 292,537 (Country data missing for 229 participants)



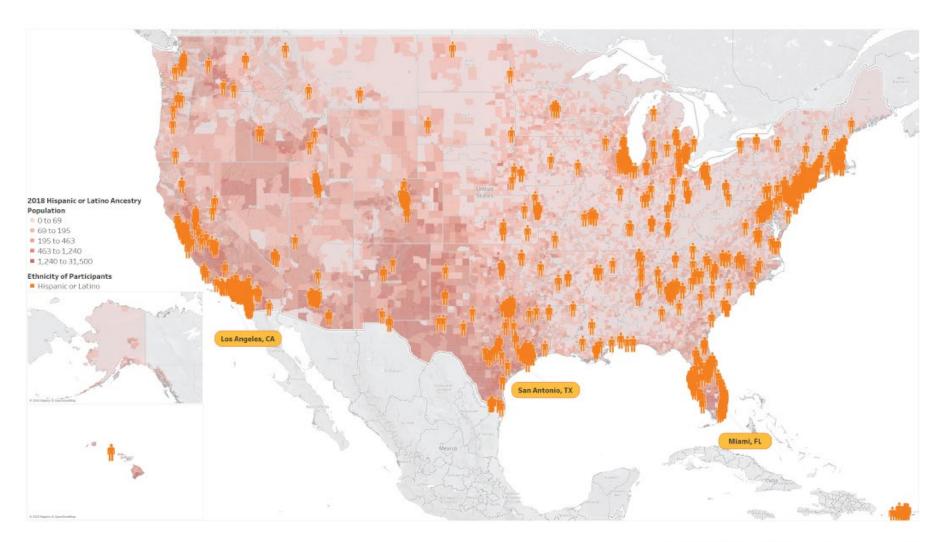
United States
Total Participants = 102,595



Not Hispanic or Latino
Hispanic or Latino
Missing

Rest of the World Total Participants = 189,942

US Participation by Ethnicity



2015-2019 Drug Trials Snapshots Summary Report

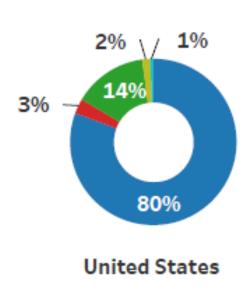
Oncology DTS Data-2020

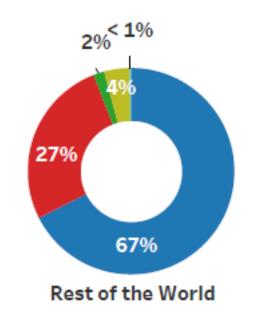


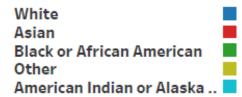
A total of 4,922 patients participated in the trials that led to the approvals of 18 new drugs. Overall,

- 50% of all participants were women,
- 73% were White,
- 14% were Asian,
- 5% were Black or African American,
- 5% were Hispanic,
- 44% were 65 years and older, and
- 41% were from the sites in United States.

Race Distribution in DM Trials

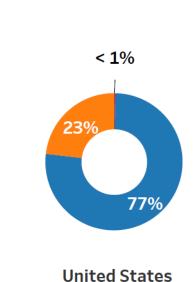






www.fda.gov

Ethnicity Distribution in DM Trials



Total Participants = 7,350

2%

Rest of the World Total Participants = 24,211

- Missing
- Not Hispanic or Latino
- Hispanic or Latino

www.fda.gov





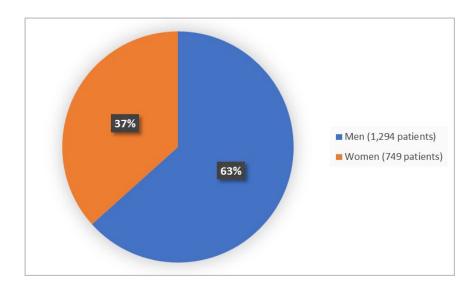
- Lack of awareness
- Mistrust of the medical system
- Inadequate recruitment effort
- Language barrier
- Barriers to the enrollment in clinical trials
 - o enrollment criteria
 - o sites selection
 - o time and resource constrains

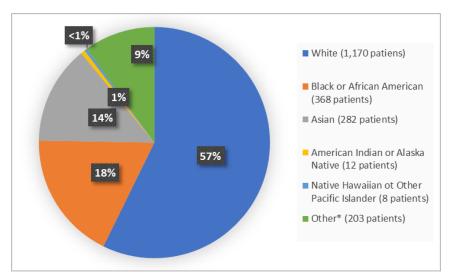


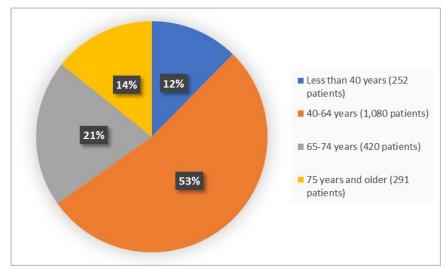
COVID-19 and Diverse Population

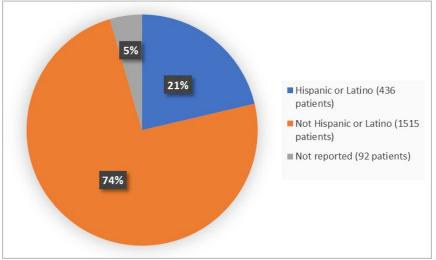
- FDA Guidance for Industry on Development and Licensure of Vaccines to Prevent COVID-19; June 2020
 - "FDA strongly encourages the enrollment of populations most affected by COVID-19, specifically racial and ethnic minorities."
- FDA Guidance for Industry on COVID-19: Developing Drugs and Biological Products for Treatment or Prevention; May 2020
 - "Racial and ethnic minority persons should be represented in clinical trials. Sponsors should
 ensure that clinical trial sites include geographic locations with a higher concentration of racial
 and ethnic minorities to recruit a diverse study population."

Remdesivir Trials

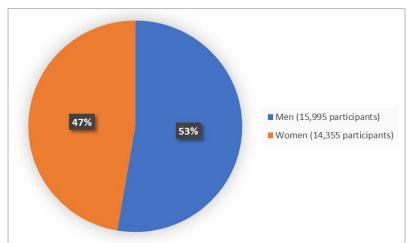


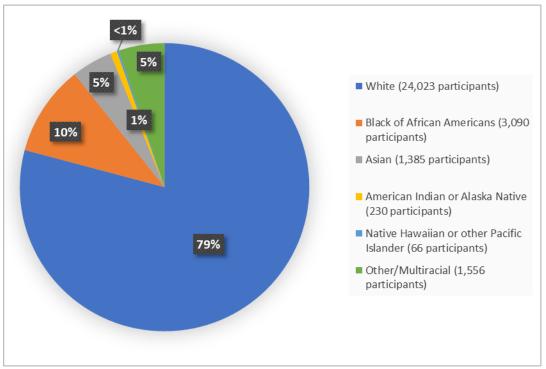


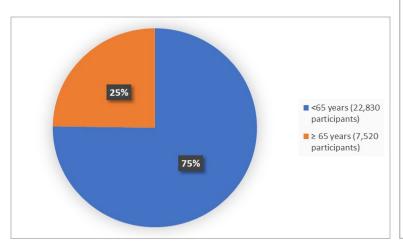


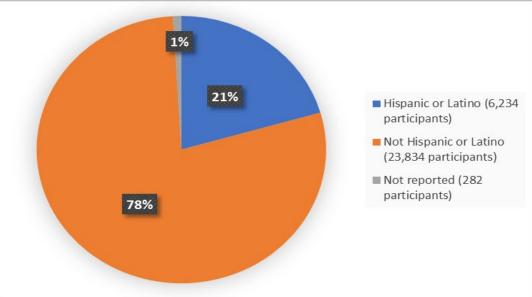


Moderna Trials

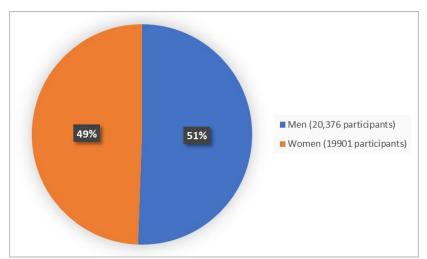


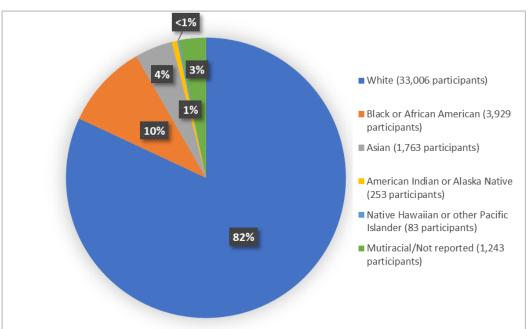


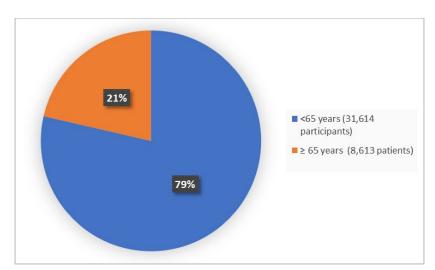


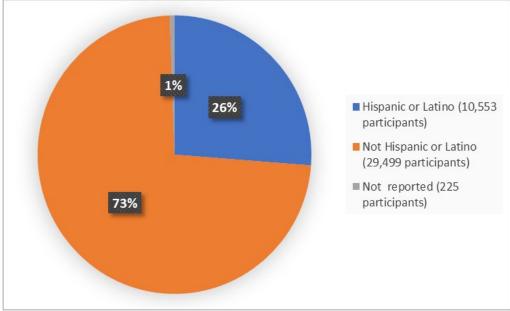


Pfizer Trials











Achieving Health Equity in Preventive Services

Screening rates are higher with

- patient navigator for colorectal, breast, and cervical cancer;
- telephone calls and prompts for colorectal cancer; and
- reminders with lay health workers for breast cancer.

FDA OMHHE

Research and Collaboration

- Intramural Research
- Extramural Research
- FDA Centers of Excellence in Regulatory Science and Innovation (CERSI) Projects
- Broad Agency Announcement (BAA)
- Summer Science Teacher Training Program
- Internships and Fellowships
- Academic Collaborations
- FDA & HHS Working Groups & Collaborations
- Stakeholder Input into Research Agenda

Outreach and Communication

- Programs/Initiatives/Campaigns
 - Diversity in Clinical Trials Initiative
 - Language Access Program
- Health Education Materials
- Social Media
- Newsletter & E-alerts
- Website
- Health Equity Lecture Series & Webinars
- Stakeholder Meetings/Symposiums



Thank you



Resources

• Drug Trials Snapshots

https://www.fda.gov/drugs/drug-approvals-and-databases/drug-trials-snapshots

NIH Clinical Trials

https://www.ClinicalTrials.gov

FDA Guidances

https://www.fda.gov/regulatory-information/search-fda-guidance- documents

FDA Advisory Committee

https://www.fda.gov/advisory-committees/advisory-committee-calendar

Office of Minority Health and Health Equity

OMHHE@fda.hhs.gov

F

Q & A



IMPROVING
DIVERSITY IN
CLINICAL TRIALS:
HOW DO WE DO
THAT?

ROBERT E FULLILOVE, EdD

Columbia University



Positionality: what's my credibility?

• I have had more than a little experience with our nation's struggles with diversity and with efforts to have anti-racist approaches to medicine and public health

• For this topic, it is important to understand that the resistance to participate in scientific research in the Black community involves more than an awareness of the Tuskegee Syphilis Study..

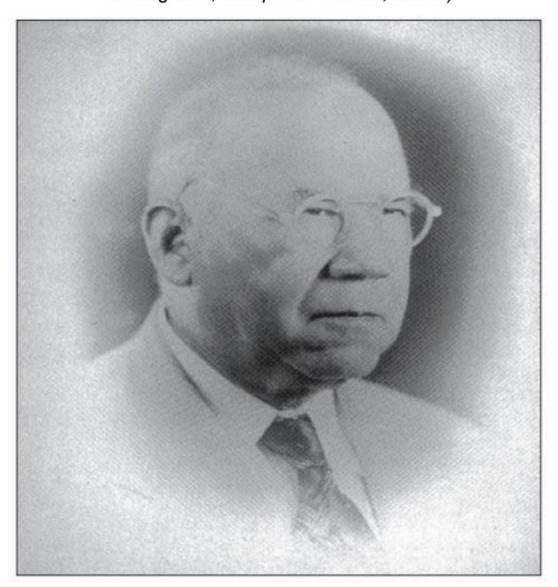


BY ORDER POLICEODEPT.

Figure 5. Afro-American Sons and Daughters Hospital circa 1950 (Reproduced with permission; Afro-American Sons & Daughters; Joseph C. Thomas, author)



Figure 3. Robert Elliott Fullilove, MD (Reproduced with permission; Afro-American Sons & Daughters; Joseph C. Thomas, author)



Treating Spanish Flu, Mississippi Delta 1918

During the very terrible epidemic of the flu that claimed my mother's life, my father spent three days and nights going from one plantation to another, without going home at all. from one plantation to house where all the members were down He would finish at one house where all the members were to take with the flu, and there would be somebody waiting there to take with the flu, and there all the members were sick. And, surhim to another house where all the members were sick. And, surhim to another house where had it, she died of it, he never prisingly enough, although we had it, she died of it, he never contracted at all.

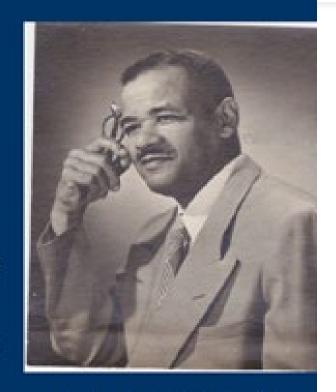
Julius Rosenwald Fellows

MGH Dates of Note: 1938-1940

Harold E. Farmer, MD
Internal Medicine, 1938
1932 – Graduated from University of Pennsylvania School of Medicine

Robert E. Fullilove, Jr., MD Urology, 1940

- 1934 Graduated from Howard Medical School
- First African American elected president of the Essex County Medical Hospital



Robert Fullilove, MD (above), courtesy of his son, Robert Fullilove, PhD

My Dad's first publication: JAMA, 1943

Article

July 10, 1943

"SYPHILIS AND THE NEGRO"

Robert E. Fullilove Jr., M.D.

Author Affiliations

JAMA. 1943;122(11):764. doi:10.1001/jama.1943.02840280048022

"SYPHILIS AND THE NEGRO"

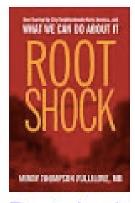
To the Editor:-The article by Dr. Smillie in the June 5 issue of THE JOURNAL concerning syphilis and the Negro, and the editorial comment, serve to give needed emphasis to an important problem. But in characterizing the problem as a purely Negro one there is grave danger of overlooking some important facts concerning the treatment and prevention. Why is the syphilis rate so much higher in the Negro than in the white? To quote Dr. Smillie, "Among the whites syphilis has become, in the great majority of cases, a disease of the ignorant, the careless, the criminal and the social outcast." Do not the same conditions apply to syphilis in any group? The Negro is discriminated against economically and educationally; it would be difficult to find conditions more favorable to the development of crime, carelessness and social ostracism than the poverty and ignorance engendered by the wage and educational differentials that are too often the lot of the Negro. In this connection the chart published with your editorial comment (p. 378) is quite significant. It shows educational deficiencies as a cause, second only to syphilis, of rejection of Negro males by Selective Service local boards, whereas this factor did not appear in the first ten causes of rejection in the white group. This is more than a mere coincidence. It would be a serious mistake to attempt to treat this problem by merely dispensing large quantities of antisyphilitic drugs without at the same time attempting to cure some of the serious socioeconomic conditions underlying it.

ROBERT E. FULLILOVE JR., M.D., New Orleans.

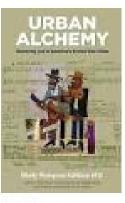


Mindy Thompson Fullilove, MD

Books by Mindy Thompson Fullilove, MD

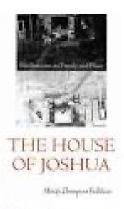


Root shock 2004

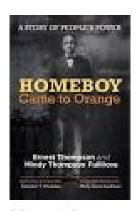


Alchemy: Restorin...





The house of Joshua 1999



Homeboy Came to Orange... 2008



From Enforcers to Guard... 2020

"Taut and involving... Freedom Diamon Missies with fine details."

— THE NEW YORK TIMES

The Savage Season of 1964 That Made Mississippi Burn and Made America a Democracy



Bruce Watson ANDERSON AND VARIETY





Perceptions of scientific research

Science has become "just another voice in the room"

• It is no longer perceived as a source of undeniable truth

• In communities of color, residents question: "what has scientific research done concretely for me or mine?"

Medicine, public health, and clinical research in the age of COVID-19

- The pandemic has demonstrated how poorly medicine and science have served communities of color
- Residents of such communities are overrepresented among cases, hospitalizations, and mortality rates
- Vaccine distribution has not fared any better: poor access, limited availability, well-documented abuses, and a history of vaccine hesitancy are just some of our current challenges

Relevant comments from community members

• "I only see you when you want something. You want me in an experiment that you say will help me and my community."

• "But if you want to help my community, do something first about unemployment, housing, educational opportunities, and these racist cops...."

What is the most important first step?

 Creating a sense of trust that we are in communities of color to do more than conduct research

 Without a coordinated effort to be in such communities to be visible allies working on ALL of the community's problems, our silos will keep us from creating effective collaborations

What's needed?

A Marshall Plan for community public health interventions

• COVID-19 provides the perfect opportunity to collaborate

 A concerted plan to eliminate the health disparities and the social determinants of health that COVID-19 has exploited is urgently needed

What is needed?

 Concerted efforts to deal with all of the health needs of the community are a fundamental component of creating trust.

• Impossible? Too difficult to organize? Our silos prevent collaboration? Ok, but...

 Necessity is the Mother of Invention...and so is our need to get on top of this pandemic....



Promoting diversity and equity in clinical trials

Efrén J. Flores, MD

Assistant Professor of Radiology, HMS
Officer, Radiology Community Health & Equity
Faculty, The Mongan Institute
Radiologist, Massachusetts General Hospital





Barriers to research

Barriers to care

"They don't want to be anyone's guinea pig."-Patient Navigator

MISTRUST

"Medicaid does not want to give you MRIs and CT scans. You have to be on your deathbed."- Patient

"No, I've never been offered a research study" *-Patient*

OPPORTUNITIES

"Many of them don't have Patient Gateway. Some of them don't even have smart phones" -Provider

TECHQUITY

"I mean, how do you just go about asking a doctor to get a lung screen?" - Patient

"I don't have a computer. I don't have internet access or anything like it." - Patient



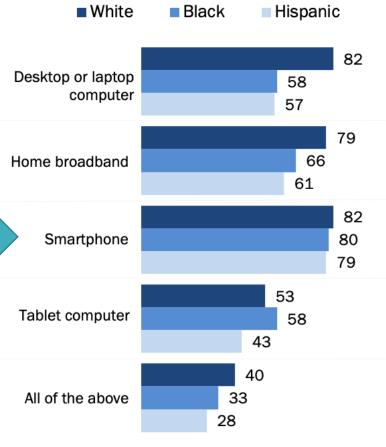
Radiology Race, Equity, Access & Community Health (R²EACH) Care Delivery Transformation Initiative





Despite some lower adoption, blacks and Hispanics own smartphones at similar shares to whites

% of U.S. adults in each group who say they have the following



Note: Those who did not answer are not shown. Whites and black include only non-Hispanics. Hispanics are of any race.
Source: Survey conducted Jan. 8-Feb. 7, 2019.

PEW RESEARCH CENTER

- Digital outreach and telemedicine can be a vehicle to promote equity and diversity
- Transforming recruitment and engagement in research requires a new approach

Promoting diversity and equity in research and clinical care

LUNG CANCER SCREENING **ARE YOU ELIGIBLE?**

EXÁMENES DE DETECCIÓN DE CÁNCER DE PULMÓN

¿ES USTED CANDIDATO?







¿FUMA? **¿SU EDAD?** Simpler language with





CONVERSE CON SU MÉDICO SOBRE SU RIESGO DE PADECER CÁNCER DE PULMÓN Y SI LAS PRUEBAS DETECCIÓN SON APROPIADAS PARA UD.

LA DETECCIÓN TEMPRANA SALVA VIDAS



more visuals

CÁNCER DE PULMÓN ES **DEJAR DE FUMAR** UN EXAMEN DE 15 MINUTOS PUEDE SALVARLE LA VIDA



SIN DOLOR NO INVASIVO SIN PREPARACIONES LA MAYORÍA DE LOS SEGUROS

EARLY DETECTION SAVES LIVES



A 15-MINUTE EXAM COULD SAVE YOUR LIFE



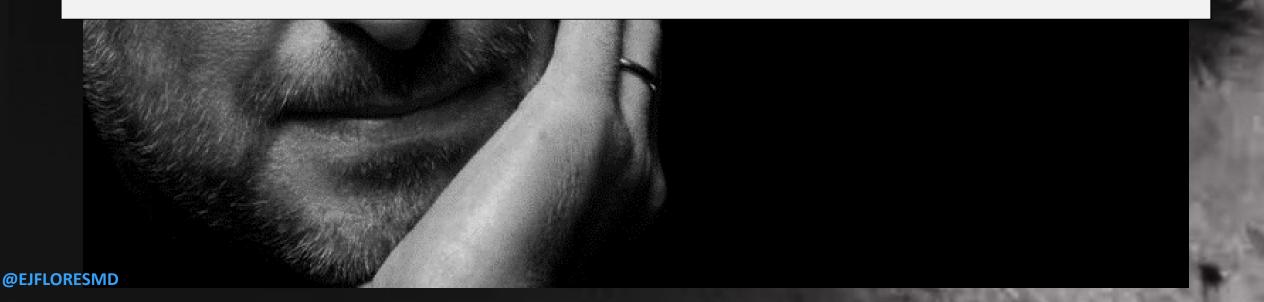
PAINLESS NON-INVASIVE NO PREPARATION **COVERED BY MOST INSURANCE**







DO THINGS DIFFERENTLY









Center of Excellence in Diversity, Equity and Inclusion in Research

Council on Government Relations (COGR)

Martha Jones, MA, CIP

Vice President, Human Research Affairs Mass General Brigham

Mass General Brigham Center of Excellence: Aspirations

- Create a nationally-recognized model
 - Where DEI is the *norm*, not the exception in our research
 - Brings together the innovation, expertise and individual efforts in DEI into a system-wide infrastructure
 - Facilitates actions (initiatives) that result in real and sustainable change in how we conduct research
- Parallels and integrates with clinical initiatives to
 - Remove healthcare disparities
 - Support health care equity goals
 - Improve the lives of our patients and our communities
- Create an infrastructure both locally and nationally for organization, discussion, education, and collaboration



Model Based on Successful Mass General Brigham Center for COVID Action Innovation https://covidinnovati Groups on.partners.org/ Pillars **Pillars Steering Committee** 鼠

- **Led by Chairs/Co-Chairs**
- **Develop and implement** projects & research

- **Led by Co-Chairs**
- Facilitate systemwide organization, integration and collaboration

HRA/CAO + System-wide Representatives

- **Overarching Goals**
- **Identify Pillars**
- **Manage Funds**



Research Infrastructure

- Research Review Committees (IRB, SRC, etc)
- Research Staffing
- Partnerships
 - Industry
 - Private
 - Government
 - Community
- Funding
- Data and Analytics

Research Participant Experience

- Recruitment
- Retention
- Community Engagement
- Connecting to patient experience

Education

- Conferences
- Symposia/Workshops
- Publications
- Toolkits

Policy & Regulation

- Local
- State
- Federal ★



Research Methods & Implementation

- Study Design
- Protocol Development
- Instruments and Measurement
- Analysis Methods







Key Takeaways

- The DEI Pandemic: needs the same priority and action
- Efforts must have institutional-level coordination, leadership and support
- Lessons from Babar: When your village is burning Act!





Task Force on Diversity, Equity & Inclusion in Research

Megan Kasimatis Singleton, JD, MBE, CIP Associate Dean, Human Research Protections

February 24, 2021: COGR



Racial Justice Report Card

2019

Johns Hopkins University School of Medicine

14. ANTI-RACISM IRB POLICIES

C

There are no specific IRB policies related to race or racism, including no requirements related to how race is defined in research protocols.



The Charge of The Task Force

Sub-Committee Race/Ethnicity Limited English Proficiency Gender Disabilities	 Assignment Define a vision for diversity, equity and inclusion in research Identify barriers and facilitators to achieving this vision Outline recommendations to ensure this vision could be achieved
Research Across the Lifespan	

Comprised of over 35 members including community members, faculty, researchers, research staff, IRB members and staff



Current Progress/Next Steps

- Full Task Force and subcommittees have met monthly between September- January
- Each subcommittee drafted preliminary recommendations and Task Force members provided feedback
- Recommendations are being compiled into a single report with cross-cutting themes
- Sessions will be held to obtain feedback on recommendations and next steps
- An implementation oversight group will be defined



Preliminary Considerations

- Assessments have to be comprehensive and continuous
- Small changes can have a great impact
- Sustainable change will require resources

2/24/2021 70

Mechanisms to get involved



- Help support researchers seeking a forum to discuss barriers to diversity, equity & inclusion in research at your organization
- Consider whether your office/organization's policies and practices support or impede diversity, equity & inclusion in research
- Support the creation of new pathways to enhance diversity, equity and inclusion in research
- Participate in national efforts to improve diversity, equity & inclusion in research

2/24/2021

F

Q & A



Next Session: NSF Director (Guest Speaker) Tomorrow @ 12:30 EST

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Thank You

