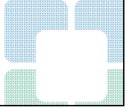
Knowledge Gaps: Stroke and Other Health Disparities

Gwendolyn Lynch, M.D., FAHA

Staff Neurointensivist/Stroke Specialist
Asst. Professor of Neurology
Director Minority Stroke Program
Cerebrovascular Center Quality Improvement Officer



Why?

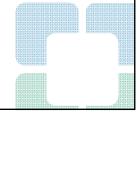


"....the vast majority of genetic variation exists within racial groups and not between them.

Race is an ideology and for this reason, many scientists believe that race should be more accurately described as a social construct and not a biological one."



Courtesy: National Human Genome Research Institute, genome.go



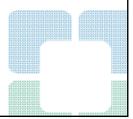


Reference: Ayanian JZ. The Cost of Racial Disparities in Health Care. Harvard Bus. Rev. October 10, 2016

ECRI TOP TEN SAFETY CONCERNS 2021

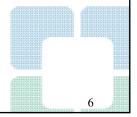
1. Racial and Ethnic Disparities in Healthcare

- 2. Emergency Preparedness and Response in Aging Services
- 3. Pandemic Preparedness across the Health System
- 4. Supply Chain Interruption
- 5. Drug Shortages
- 6. Telehealth Workflow Challenges
- 7. Improvised Use of Medical Devices
- 8. Methotrexate Therapy
- 9. Peripheral Vascular Harm
- 10. Infection Risk from Aerosol-Generating Procedures



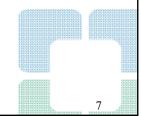
FIVE MAJOR CONTRIBUTORS TO HEALTH

- 1. Healthy Behaviors
- 2. Physical and Social Environment
- 3. Socioeconomic Status
- 4. Public Policy
- 5. Healthcare



CDC – 5 Key Areas of Social Determinants of Health

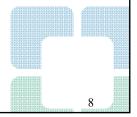
- Social and Community Context
- Economic Stability
- Neighborhood and Built Environment
- Education Access and Quality
- Healthcare Access and Quality



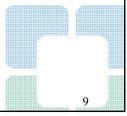
 $\underline{https://www.cdc.gov/social determinants/about.html https://health.gov/healthypeople/objectives-and-data/social-determinants-healthypeople/objectives-and-data/social-data/$



Courtesy of the Office of Disease Prevention and Health Promotion https://health.gov/healthypeople



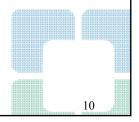
Wellness



"...physiological adaptations or disruptions affect lifelong outcomes in learning, behavior, and both physical and mental well-being."

<u>Lifelong Health</u> Harvard University

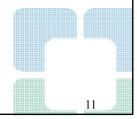
https://developingchild.harvard.edu/science/deep-dives/lifelong-health/



Impact of Effective Life Guidance During Childhood

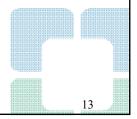
- Higher sense of wellbeing
- Less Depression
- Higher rates of healthy eating
- Less Obesity
- Higher socioeconomic and cognitive achievements

Int J Behav Nutr Phys Act 14, 47 (2017). Int J Behav Med. 2006; 13(4): 320–329.

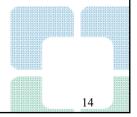




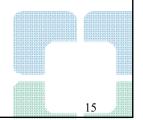
How can we more effectively help families and communities implement efforts to optimize childhood wellness initiatives that extend to adulthood?



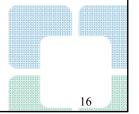
What are best practices that minority and ethnic communities can use to address social determinants of health at the ground level?



What are best practices to addressing the wellness aspects of social determinants of health during the patient care visit, including both the outpatient and inpatient settings?

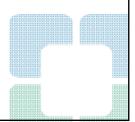


Healthcare



Knowledge Gaps: Healthcare

- Evaluation
- Treatment
- Research



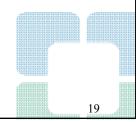
The Great Divide in Patient Assessment

- Longer Wait Times
 - -Outpatient visits
 - -Emergency room evaluations
- Fewer diagnostic studies
- Lower rates of diagnosing chronic conditions such as hypertension and diabetes
- Later presentation to get care

Racial and Ethnic Disparities in the Quality of Health Care - Annual Review of Public Health Vol. 37:375-394

18

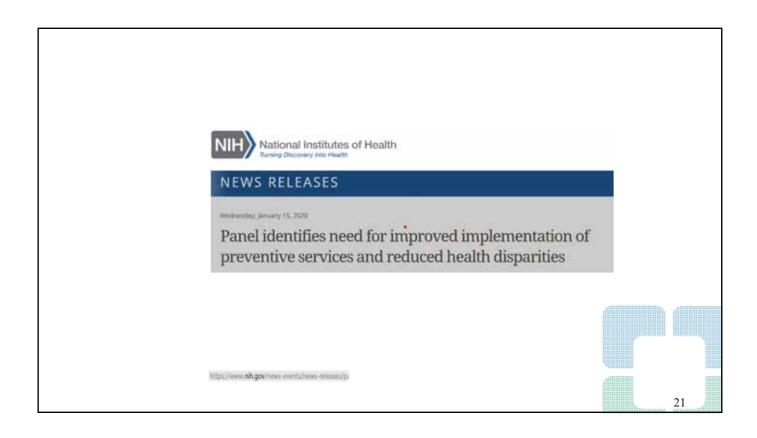
You Never get A Second Chance To Make a First Impression.

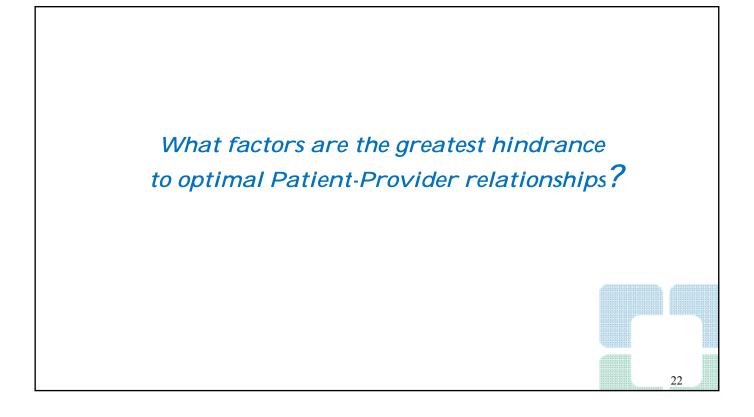


Heathcare: Cultural Sensitivity Training

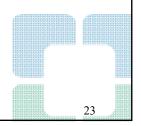
- Majumdar et al, Journal of Nursing Scholarship 36: 161-6
- Randomized controlled trial
- 114 healthcare providers underwent training and assessment
- 133 patients were assigned to experimental and control groups
- Found that completion of a cultural sensitivity training program improved knowledge and attitudes among health care providers, and yielded positive health outcomes for their patients.

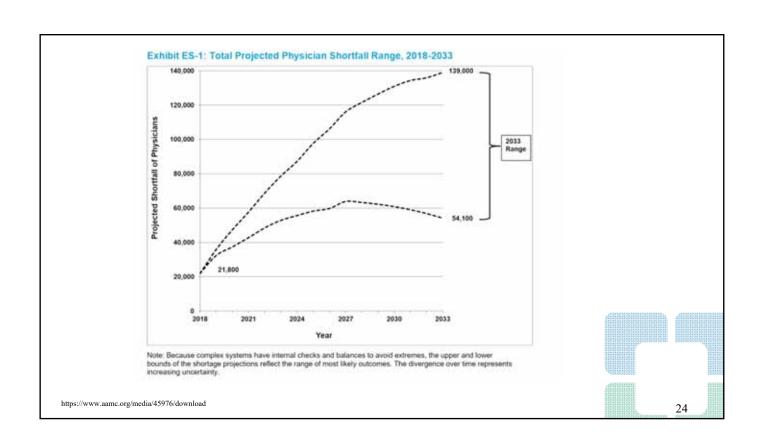
10





What can be done so that we have enough providers/under-represented minority providers to perform proper patient assessments?

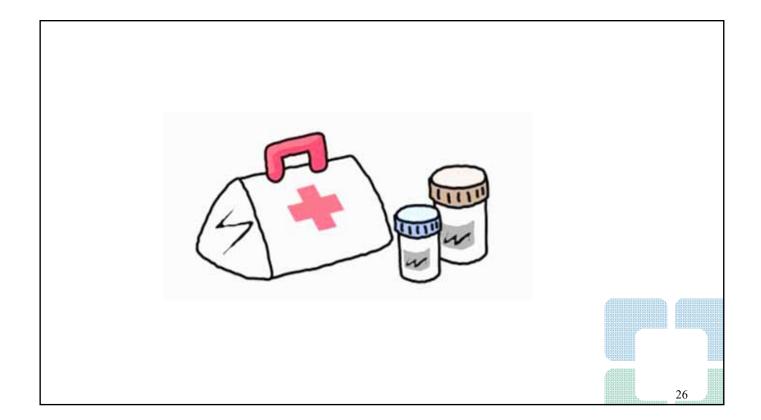


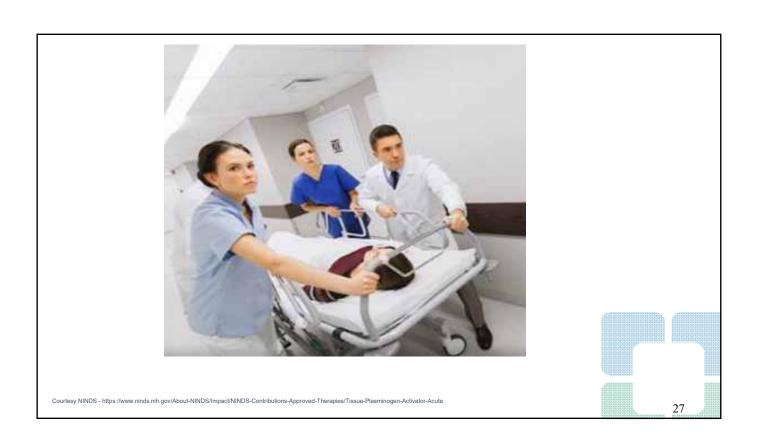


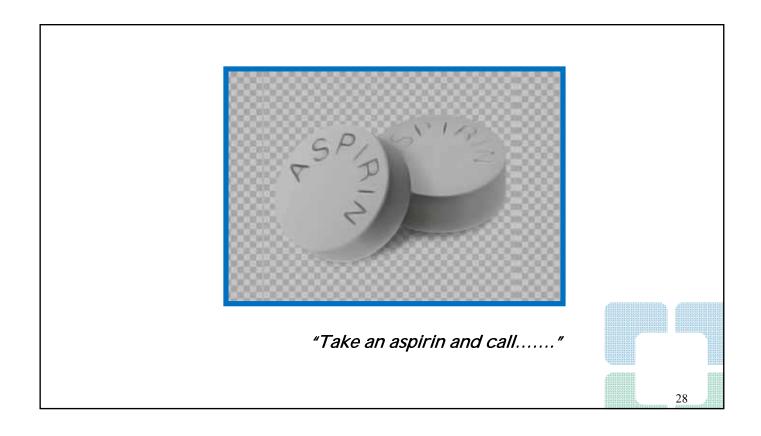
Closed Historically Black Medical Schools

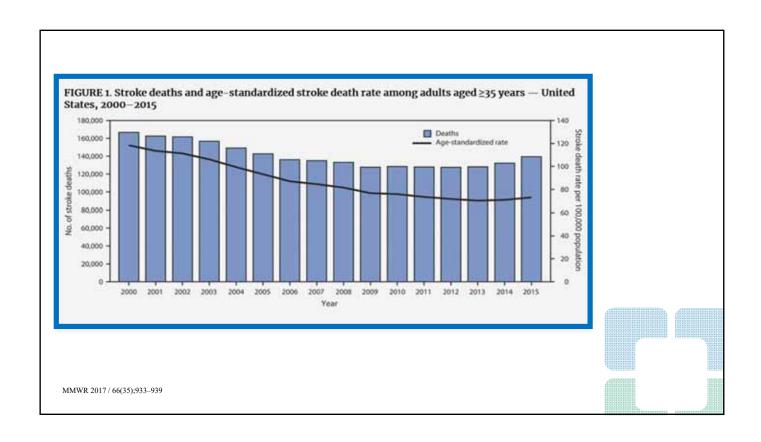
- Campbell K et al. JAMA Network Open 2020;3(8):e2015220
- . Analysis of historical records and reports from the AAMC
- Estimated the number of graduates from the hypothetical continued operation and expansion of the five HBCU medical schools closed by the Flexner Report.
 - -Flint Medical College of New Orleans University,
 - -Knoxville Medical College,
 - -LeonardMedical School of Shaw University,
 - -Louisville National Medical College,
 - -University of WestTennessee College of Medicine and Surgery-Memphis.

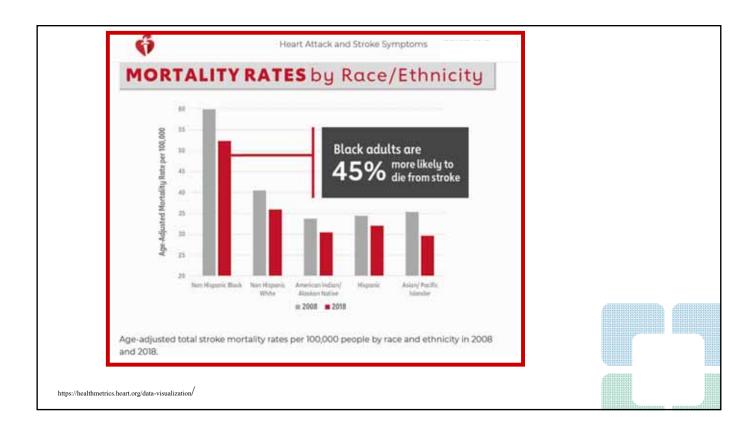
25



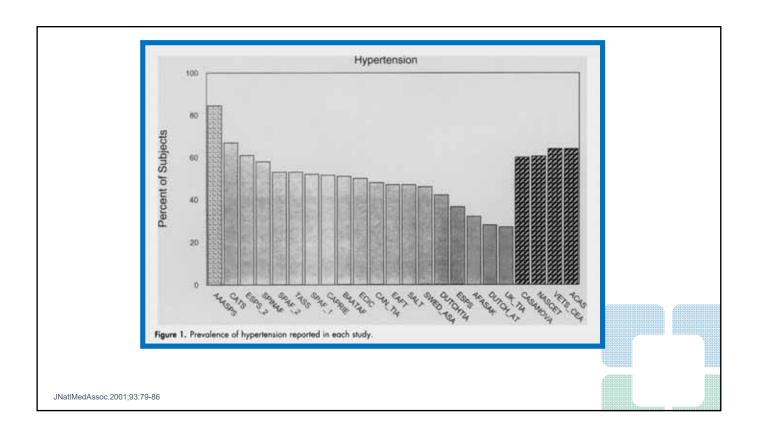


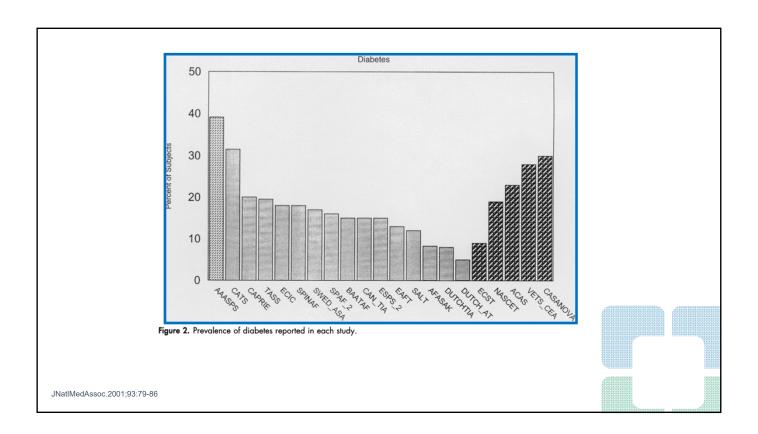


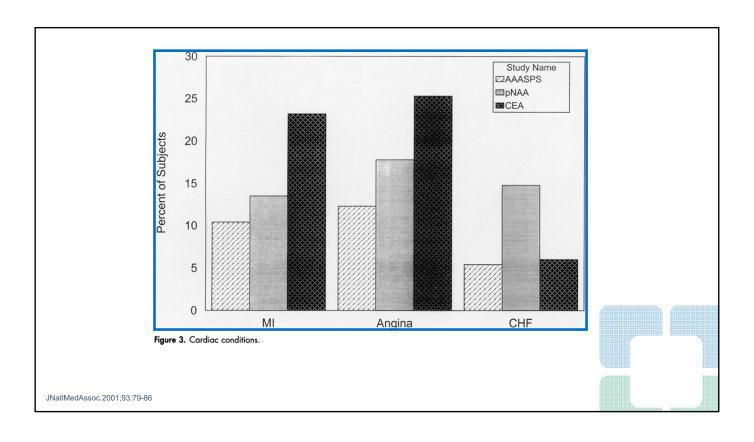


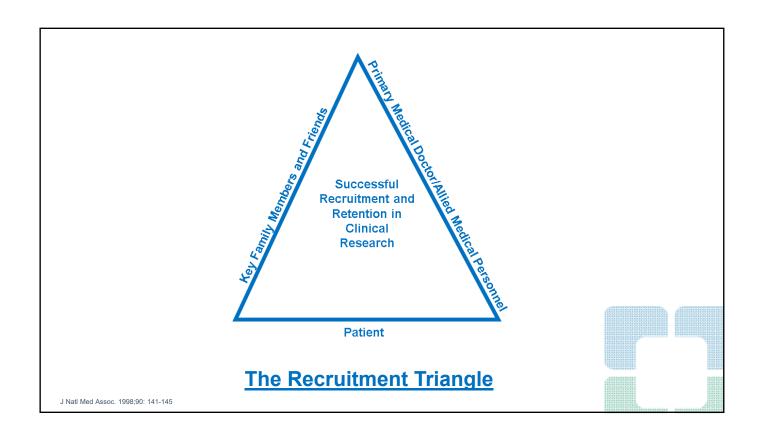


Study name	No. of Patients	% Female	Past stroke	Past TIA	MI	Angina pectoris	CHF	Hyper- tension	Diabetes	Smoking	Alcohol	% African- America
AAASPS	1087	53	25	8	10	12	5	84	39	64	3	100
ACAS ⁵¹	1659	34	_	_	_	_	_	64	23	26	_	3
AFASAK34	1007	46	4	2	8	1 <i>7</i>	52	32	8	-	8	_
BAATAF ⁴²	420	28	3	_	13	24	26	51	15	61	_	_
CAN_TIA40	890	33	13	_	15	15	2	48	15	_	_	_
CAPRIE ⁴³	19185	28	9	_	17	53	6	52	20	79	_	_
CASANOVA ⁴⁸	410	27	_	_	_	_	_	60	30	_	_	_
CATS ²³	1053	39	20	18	17	18	6	67	32	66	_	21
DUTCHTIA36	3131	35	_	_	10	10	_	42	8	45	_	_
DUTCH_AT33	1473	36	_	_	5	5	_	28	5	47	_	_
EAFT ³⁸	1007	44	_	_	8	11	10	47	13	_	_	_
ECIC ⁴¹	1377	19	_	_	10	9	_	50	18	_	_	_
ECST ³¹	1152	29	56	69	20	_	_	_	9	56	_	_
ESPS ³⁵	2500	42	_	_	_	_	_	37	_	_	43	_
ESPS_250	6602	42	29	_	_	_	8	61	15	57	_	_
NASCET ⁴⁹	659	32	_	_	24	24	_	61 -	19	35	_	3
SALT ³⁹	1360	34	9	10	11	18	5	47	13	50	_	_
SPAF_144	1330	29	_	_	8	10	19	52	_	16	_	6
SPAF_2 ⁴⁵	1100	30	_	_	10	11	20	53	16	12	_	_
SPINAF ⁴⁷	525	0	_	_	19	_	30	58	18	17	_	_
SWED_ASA ³⁷	505	38	11	8	10	18	16	46	17	_	_	_
TASS ⁴⁶	3069	36	10	_	17	19	_	53	20	42	_	_
UK_TIA32	2435	27	_	_	10	15	1	27	_	53	_	-
VETS_CEA52	444	0	_	_	26	27	6	64	28	92	-	7









Summary:

Knowledge Gaps regarding Health Disparities

- Closing the Healthcare Divide
- Involvement of:
 - Patient, Family & Friends, Community, Healthcare Providers, Key Stakeholders
- Addressing Social Determinants of Health
- Addressing Cultural Awareness and Sensitivity
- Correcting the doctor shortage
- Increasing Minority Participation in Clinical Trials

Thank you!





Every life deserves world class care.