



HARVARD MEDICAL SCHOOL
TEACHING HOSPITAL

Artificial Intelligence for Longitudinal Care

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MASSACHUSETTS
GENERAL HOSPITAL

**CORRIGAN MINEHAN
HEART CENTER**

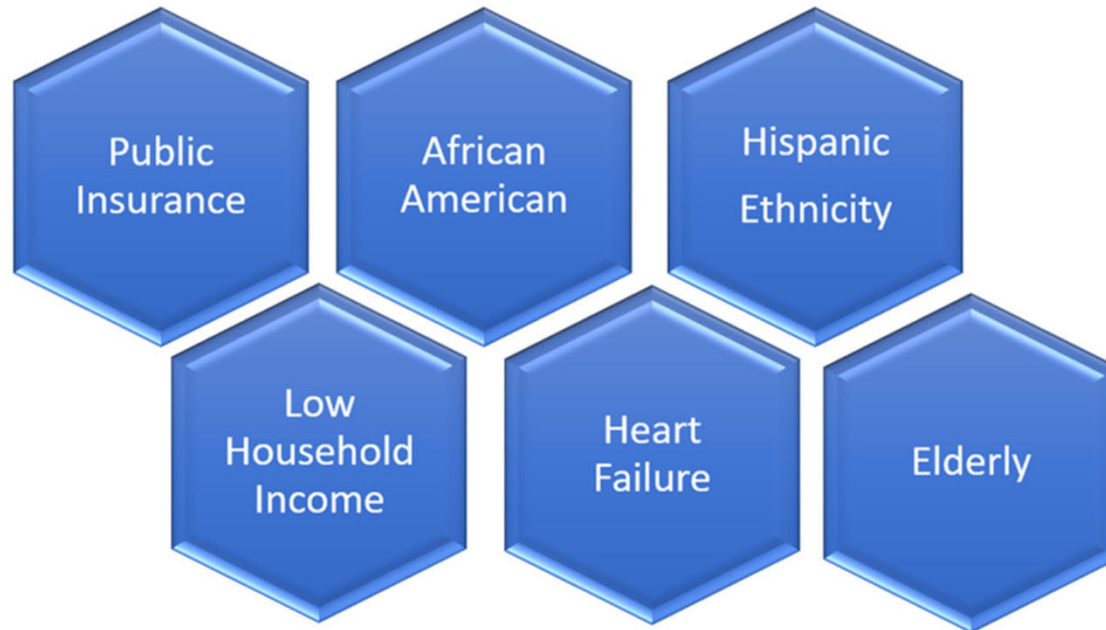
The Telehealth Landscape

- Asynchronous Communication: PROMs, Electronic Consultation
- Blended Care: In-person and Virtual synchronous visits
- Clinical remote monitoring, medical grade devices
- Digital tracking and wearables
- **Emerging analyses: Data and Artificial Intelligence**

American Hospital Association, January 2015 *Trend Watch*,
The Promise of Telehealth For Hospitals, Health Systems, and Their Communities

Social and Clinical Determinants of Telemedicine Cardiovascular Care

Factors associated with lower Telemedicine Video Utilization



Brown K, Mathenge N,
Pagliaro J, Crousillat D,
Singh J, Bhatt A

8449 cardiology patients

age >85y, public insurance (Medicaid/Medicare), MHI < MA state ave, HFrEF/HFpEF



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Cardiovascular Equity Task Force

Identify Risk Factors

1. Non-Hispanic Black / Hispanic Ethnicity
2. Age > 85 years
3. Public insurance
4. MHI less than State average
5. Heart failure (systolic or diastolic)

IDENTIFY

INTERVENE

ENGAGE

Evaluate Modifiable Factors

1. Patient Portal Enrollment
2. Hardware access
3. Digital Literacy

Implement Telehealth Interventions

1. Assign telemedicine coach
2. Identify virtual liaison
3. Provide access to hardware

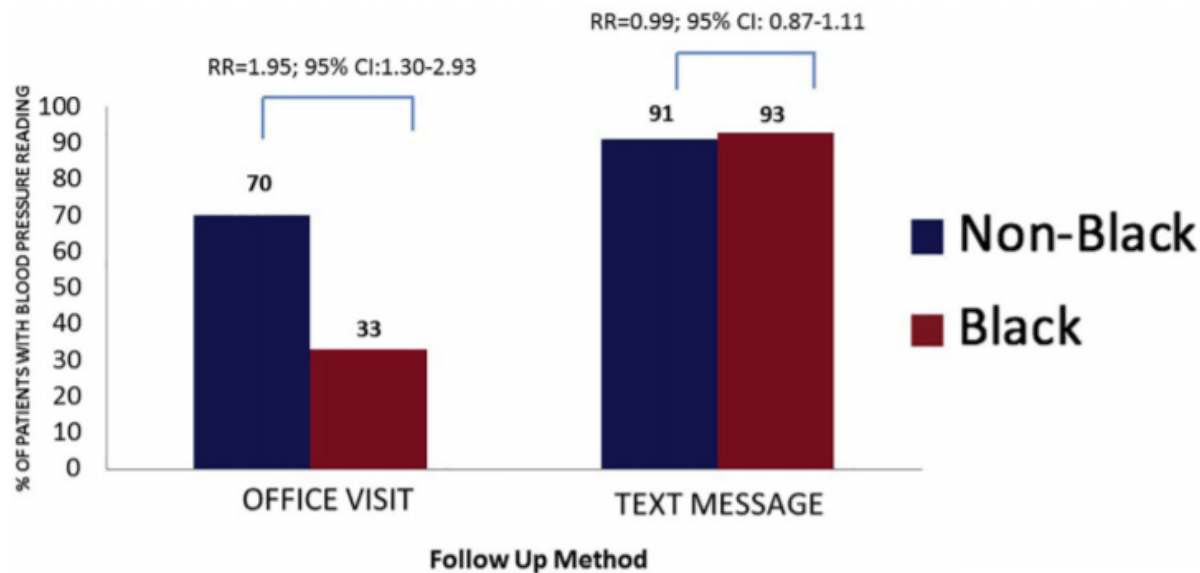
Create Access

Proceed with navigated telemedicine encounter

Secure Texting with Patients

FIGURE

Postpartum blood pressure ascertainment by race and follow-up method



CI, confidence interval; RR, relative risk.

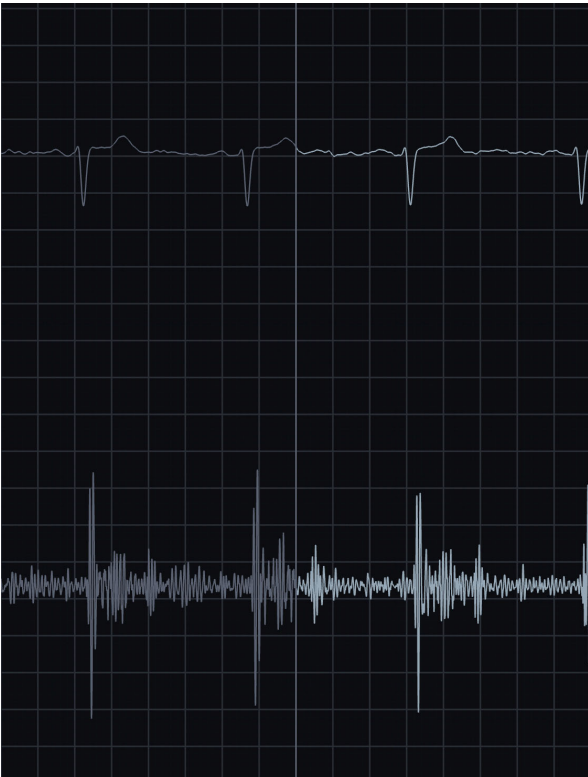
Hirshberg. Text messaging remote blood pressure monitoring. *Am J Obstet Gynecol* 2019.

Working Agenda for Black Mothers

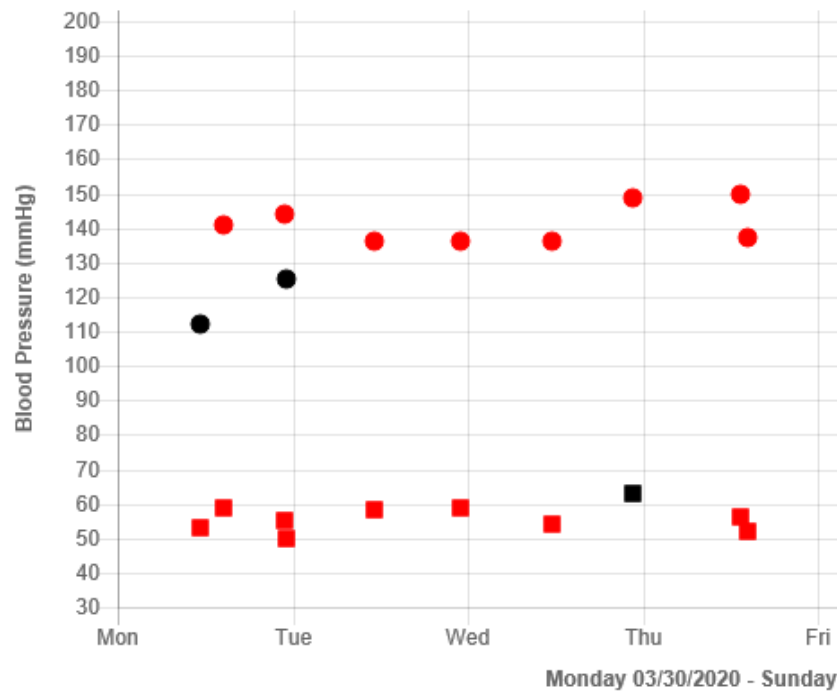
A Position Paper From the Association of Black Cardiologists on Solutions to Improving Black Maternal Health

Remote Monitoring

Digital Stethoscopes for Physical Exam Education



Continuous Blood Pressure Monitoring



Virtual Resiliency Training for Health Related Anxiety





Who are our patients?

- Improved Access
- Optimal Convenience
- Accessible Education
- Home-based Care
- Personalized Approach
- Holistic Investment