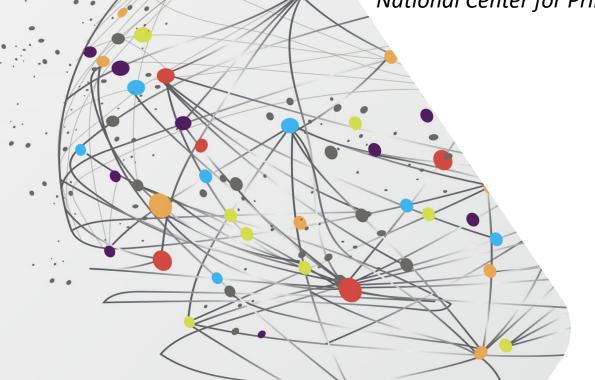




Digital Health Tools & Primary Care in Communities

National Center for Primary Care, Morehouse School of Medicine



Dominic H. Mack MD, MBA Professor, Family Medicine Director NCPC, NCRN Morehouse School of Medicine

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#MSMHealthEquity





"Strengthening the primary care system through education, research and training to improve health outcomes while advancing health equity"



Divisions

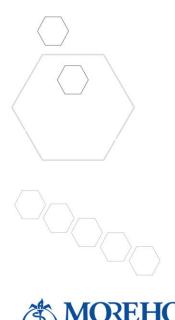
- Health IT
- Health Policy
- Research
- Substance Use Disorder Prevention & Treatment

Projects/Programs

- HI-BRIDGE Solutions
- Southeast Addiction Technology Transfer Center
- Southeast Regional Clinicians Network
- HBCU Global Health Consortium
- National COVID-19 Resiliency Network



State of Primary Care & Technology









May 2021

Policy Research Perspectives

Recent Changes in Physician Practice Arrangements: Private Practice Dropped to Less Than 50 Percent of Physicians in 2020

By Carol K. Kane, PhD

US Hospital Beds 1975 – 2019 (American Hospital Association)

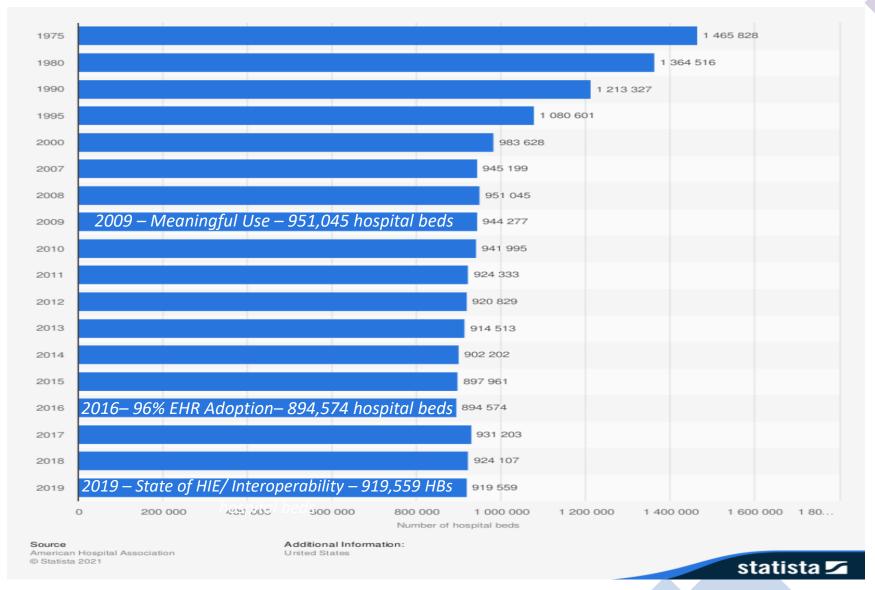


Exhibit 4: Distribution of physicians by practice type: specialtylevel estimates (2020)

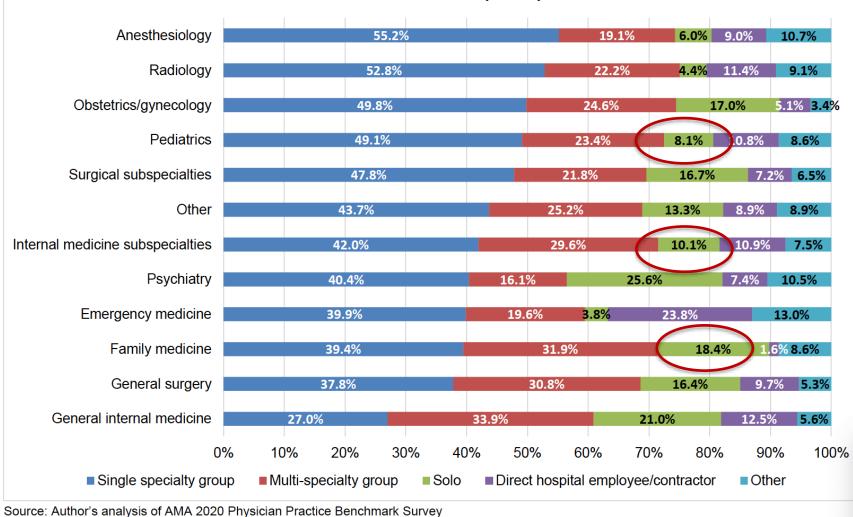


Exhibit 5. Distribution of physicians by practice size (number of physicians in practice) 1

	2012	2014	2016	2018	2020
Practice size					
Fewer than 5 physicians	(40.0%)	40.9% ^b	37.9% ^c	35.7% ^c	(33.6% ^a)
5 to 10	21.4% c	19.8%	19.9%	20.8%	20.0%
11 to 24	13.4% ^c	12.1%	13.3%	12.7%	11.5% b
25 to 49	7.1%	6.3% ^c	7.4%	7.6%	7.8%
50+ physicians	(12.2%)	13.5%	13.8%	14.7% ^a	(17.2% ^a)
Direct hospital employee/contractor ²	5.8% a	7.4%	7.7%	8.5% ^c	9.7% a
	100%	100%	100%	100%	100%
N	3326	3388	3381	3339	3353

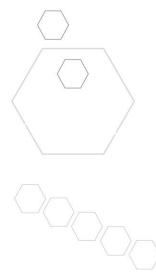
Source: Author's analysis of AMA Physician Practice Benchmark Surveys.

Exhibit 6. Age differences in practice size and practice ownership (2020)

	Under 40	40 to 54	55+
Practice size			
10 or fewer physicians	40.9%	49.7%	61.4%
11-49 physicians	21.0%	21.1%	17.4%
50+ physicians or direct hospital employee/contractor	38.1%	29.2%	21.2%
	100%	100%	100%
N	589	1375	1389
Practice ownership			
Wholly owned by physicians (private practice)	33.8%	48.0%	55.4%
Not wholly owned by physicians	66.2%	52.0%	44.6%
	100%	100%	100%
_ N	620	1438	1442

Source: Author's analysis of AMA 2020 Physician Practice Benchmark Survey

Community Approach & Evaluation







Digital health tools have tremendous potential to aid in the elimination of health disparities, but only if they are in the hands of the front-line clinicians serving underserved communities.





HHS Public Access

Author manuscript

J Health Care Poor Underserved. Author manuscript; available in PMC 2016 August 30.

Published in final edited form as:

J Health Care Poor Underserved. 2016 February; 27(1): 327-338. doi:10.1353/hpu.2016.0016.

Disparities in Primary Care EHR Adoption Rates

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George Rust, MD, MPH, FAAFP, FACPM [I NCPC and Family Medicine, Morehouse ScI

Abstract

This study evaluates electronic health record to assess adoption disparities according to probaracteristics. Frequency variances of EHR calculated by univariate and multivariate log community health centers (CHCs) were mor health clinics and other underserved settings Medicaid predominant providers had achiev achieving 60. Live status than private insura adoption rates may exacerbate existing disperpactices. Targeted support such as that prov practices now at a disadvantage.

Keyword

Health information technology; electronic h

The Health Information Technolo enacted in February 2009 as partinvested over 35 billion dollars in

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HHS Public Access

Author manuscript

Psychiatr Serv: Author manuscript; available in PMC 2018 February 01.

Published in final edited form as:

Psychiatr Serv: 2017 February 01; 68(2): 173-178. doi:10.1176/appi.ps.201500518.

Assessing Telemedicine Utilization by Using Medicaid Claims

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Abstract

Objective—This study characterized telemedicine utilization among Medicaid enrollees by patients' demographic characteristics, geographic location, enrollment type, eligibility category, and clinical conditions.

Methods—This study used 2008–2009 Medicaid claims data from 28 states and the District of Columbia to characterize telemedicine claims (indicated by GT for professional fee claims or 20014 for facility fees) on the basis of patients' demographic characteristics, geographic location, curollment by pe, eligibility category, and clinical condition as indicated by ICD9-codes. States lacking Medicaid telemedicine reimbursement policies were excluded. Chi-square tests were used to compare telemedicine utilization rates and one-way analysis of variance was used to estimate mean differences in number of telemedicine encounters among subgroups.

Results—A total of 45,233,602 Medicaid enrollees from the 22 states with telemedicine reimbursement policies were included in the study, and 1.1% were telemedicine users. Individuals ages 45 to 64 (16.4%), whitex (11.3%), males (8.5%), rural residents (26.0%), those with managed care plans (7.9%), and those categorized as aged, blind, and disabled (28.1%) were more likely to receive telemedicine (pr.001). Nearly 95% of telemedicine claims were associated with a behavioral health diagnosis, of which over 50% were for bipolar disorder and attention-deficit disorder or attention-deficit hyperactivity disorder (29.3% and 23.4%, respectively). State-level variation was high, ranging from 0 to 59.91 claims per 10,000 enrollees (Arkamas and Arizona, respectively).

Conclusions—Despite the touted potential for telemedicine to improve health care access, actual utilization of telemedicine in Medicaid programs was low. It was predominantly used to treat behavioral health diagnoses. Reimbursement alone is insufficient to support broad utilization for Medicaid enrollees.

Telemedicine has been in use for decades, and its potential to improve health care access and to reduce costs has propelled it into the ongoing health care reform discussion (1,2). Telemedicine has the potential to improve health outcomes for vulnerable populations,

The authors report no financial relationships with commercial interests

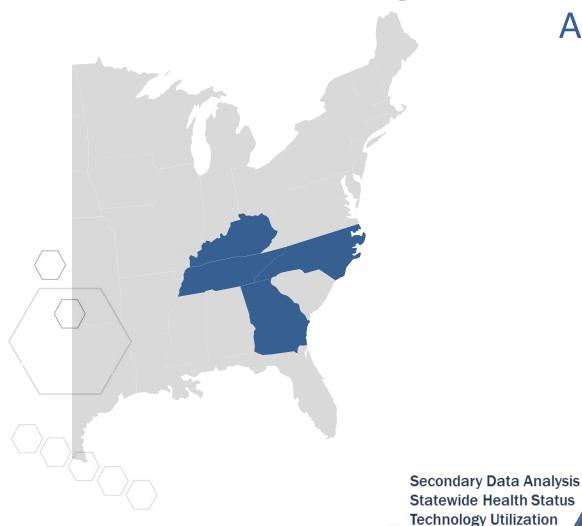






Digital Health Tools Study

Approach



Clinician Surveys
Focus Groups
Key Informant Interviews

Clinician/ Practice Utilization

Visibility

Policy

Population

Health

State-by-State Policy Analysis Environmental Scan Leadership Roundtables

Publicity & Visibility

Policy Briefs

White Paper Series

Publications

Social Media

Partnerships

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Advertisements

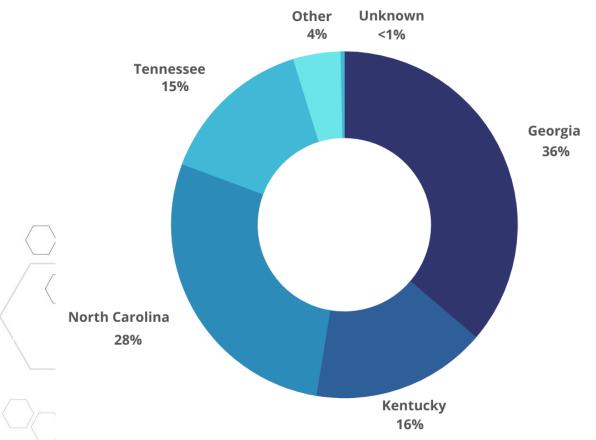
Conference Presentations



msmhealthequity

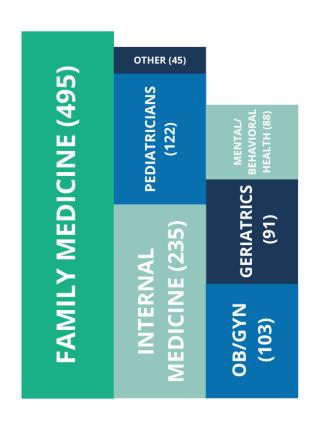


State of Practice



n = 1,107

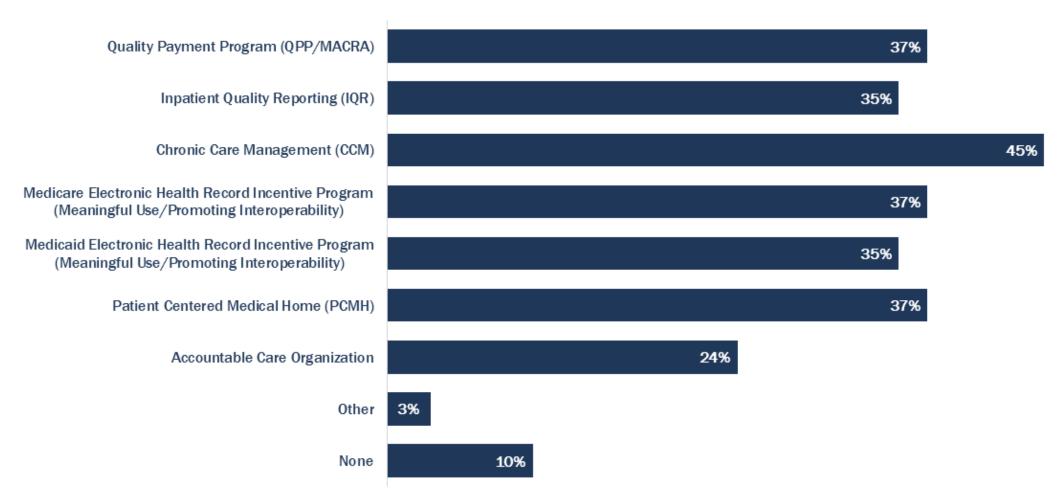
Specialty







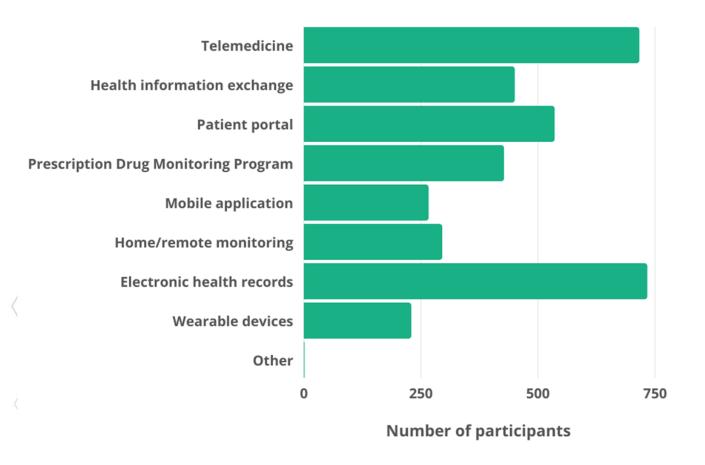
Participation in Quality Reporting Programs







Question: Which of the following digital health tools have you used or plan to use in your practice?



- ➤ Telemedicine (65%)
- ➤ Electronic health record (65%)
- ➤ Patient portal (50%)
- ➤ Health information exchange (45%)
- ➤ Prescription drug monitoring program (40%)
- ➤ Remote monitoring/home monitoring (30%)
- ➤ Wearable devices (20%)

AMA Digital Health Tool Survey (2019)

- Telemedicine (28%)
- Remote monitoring (22%)
- Patient Portal (58%)



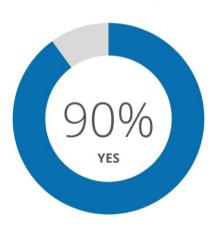






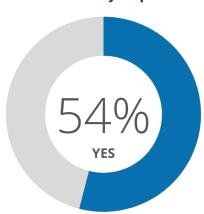
Advancing Equity Through Primary Care and Digital Health Tools

Question: Have you used digital health tools because of the COVID-19 pandemic?



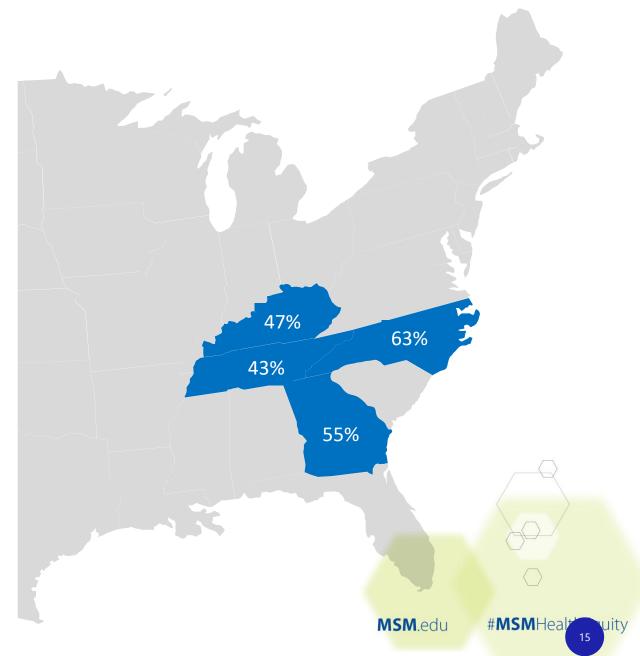
n = 936

Question: If you are providing telehealth services during the COVID-19 pandemic, was this your first use of telehealth in your practice?

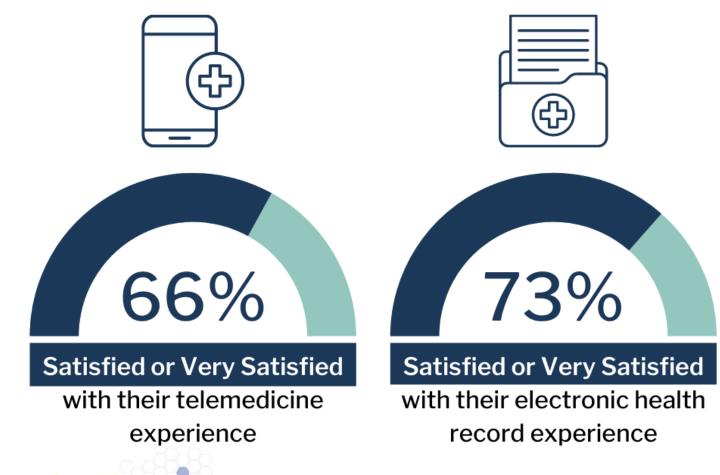








Reported Levels of Satisfaction

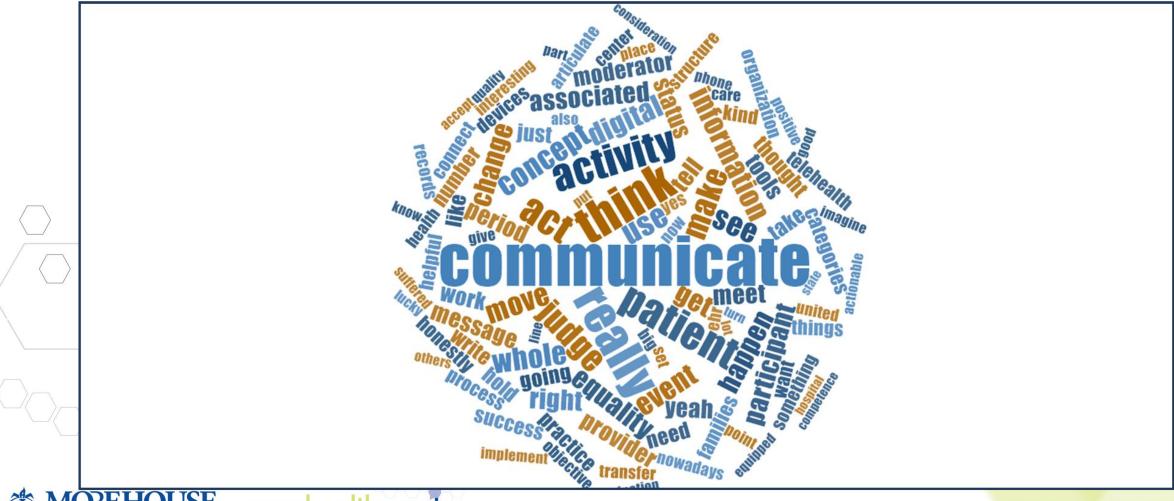




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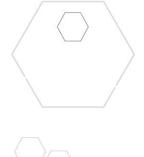


FOCUS GROUPS





We're doing a lot of phone visits...because of...where we live, bandwith and internet connectivity, there's been some painful appointments both via video and on phone. But when it works, it works very well. Patients are very receptive to it. It eliminates a barrier to access services, especially a transportation barrier, which is very heavy in our community. So I think patients are really loving that.



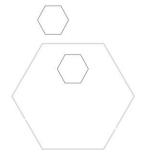








[I]t's very frustrating to not be able to access records within my own system. And I don't feel like anyone listens when I bring that up or maybe they do and it's just not possible. I don't know.











in those that have the availability and the capability to utilize different networks, cellular services, having both video and audio capabilities. I think that's been one of the biggest barriers that we've seen in our rural community.







Key Takeaways - DHT Experience

- Findings demonstrate significant increase in adoption
- Primary care clinicians were generally satisfied with their DHT experiences
- To overcome workflow challenges, frontline clinicians should be engaged in decision making

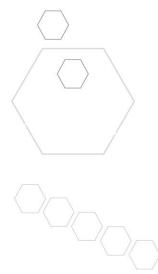
Health Equity Implications

- COVID-19 policy changes <u>improved access</u> to telehealth for disproportionately impacted Value-based payment models rely on use of DHTs, but evidence of <u>disparity reduction is limited</u>
- The <u>digital divide continues among consumers and clinicians</u> in rural and underserved communities





Equitable Digital Health Solutions







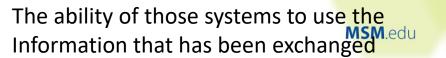
Health Information Exchange vs Interoperability

Health Information Exchange



Health Information Interoperability







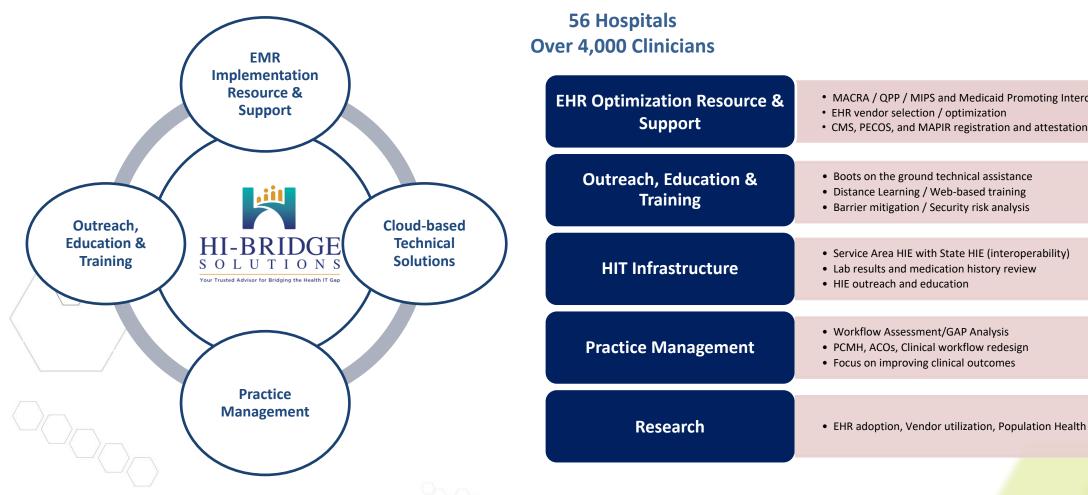


Community Level Contextual Data



Health Information Technology Division

SUPPORTS GEORGIA PROVIDERS & HOSPITALS



- MACRA / QPP / MIPS and Medicaid Promoting Interoperability
- CMS, PECOS, and MAPIR registration and attestation

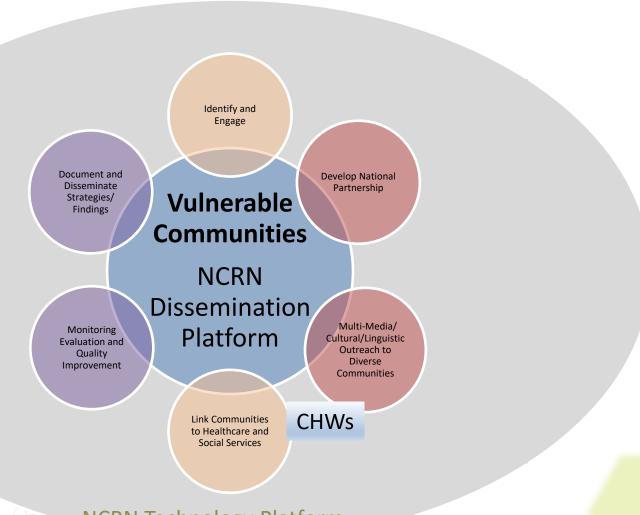
• Service Area HIE with State HIE (interoperability)















NCRN Technology Platform



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Mobile App











NEW COVID-19 RESOURCES

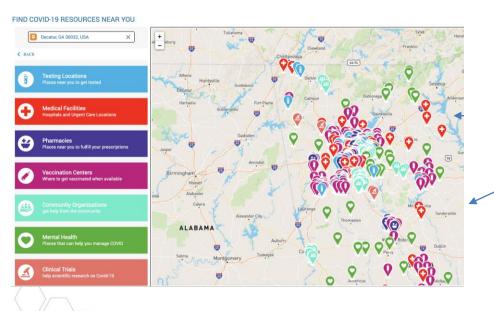




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Location-Based Resource Navigator







View Risk Map

Use Symptom Checker



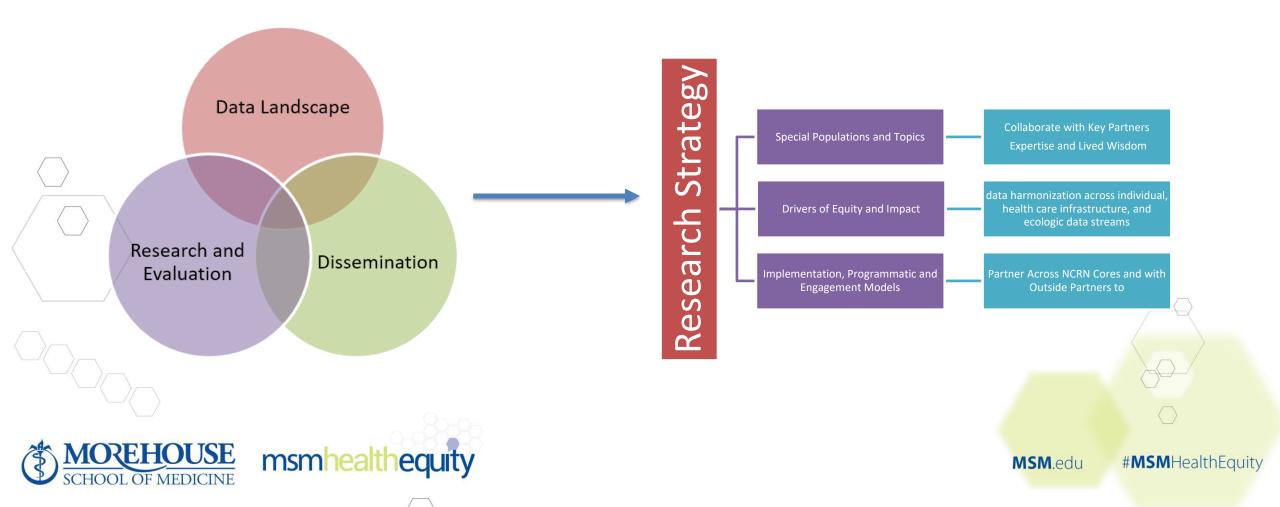




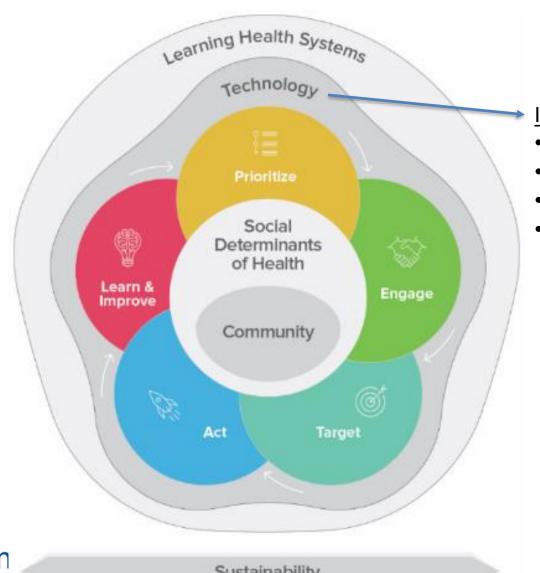
See Available Services

NCRN Research Strategy Goals & Structure

Leverage the data streams and lessons learned via implementation of the NCRN to generate evidence to mitigate the impact of COVID-19 on vulnerable communities



PETAL: Overcoming Barriers with a Strategic Approach to Rural and Urban **Disproportionately Impacted Communities**



Interoperability Challenges for Underserved

- HIE silos
- Corporate Responsibility
- Affordability of DHT
- **Small Practice Support**







Sustainability



ZIP CODE/COMMUNITY \rightarrow CULTURE \rightarrow RISK \rightarrow TESTING \rightarrow CARE

Thank YOU!

