

Background

- Historically marginalized populations, including Black and Hispanic communities, experience higher rates of COVID-19 infection, hospitalizations, mortality, delayed treatment, and inequitable prescription of outpatient therapies.¹⁻⁶
- > Interventions to address health equity are complex, however established frameworks such as the National Institute on Minority Health and Health Disparities Research Framework can guide multi-level needs assessment and interventions.⁷

Methods

> Three health care organizations (HCOs) completed a mixed methods pragmatic needs assessment to identify opportunities and inform multi-level interventions in health equity for COVID-19 management.

	Measures	Data Collection Method	Timepoint			
Quantitative	COVID-19 Treatment ^a COVID-19 Treatment Fills ^b	Electronic Health Record (EHR) per standard measures specification	September 20 December 202 reporting in 6- increments			
Balance ^c	COVID-19 Vaccination ^d	EHR	Same as above			
Qualitative- Patient	Demographics, healthcare access and utilization, ⁸ knowledge and attitudes, ⁹ minority patient experience in healthcare ¹⁰⁻¹²	Survey with dissemination strategies including patient newsletters, QR codes in clinic, direct approach	January-May 2			
Qualitative- Provider	Demographics, knowledge and attitudes, ¹³ recommendation practices, Bias in healthcare, ¹⁴⁻¹⁵ multiculturally competent sensitive service system assessment ¹⁶	Survey with dissemination strategies including email, presentation at department meetings, direct approach	January-May 2			

^a Age 18+ at start of reporting period, ≥1 interaction with HCO within 36 months prior, documented acute COVID-19 diagnosis in reporting period, excluded if contraindicated for any COVID-19 treatment.

^b Number of patients with evidence of pharmacy fill of prescribed COVID-19 treatment in ambulatory setting (including urgent care and ED). Subset of patients for which HCO has access to fill data was acceptable. ^c A balance measure is a type of performance metric used to ensure that improvements in one area do not cause unintended

negative consequences in another. It helps maintain overall system stability by counteracting potential trade-offs that come with focusing too much on a single goal. ^d Age 18+ at start of reporting period, \geq 1 interaction with HCO within 36 months prior, at least 1 dose of a vaccine administered.

Results

- > 109 provider and 467 patient surveys were completed across the 3 HCOs. Challenges gathering feedback from diverse populations were troubleshot by all HCOs using various strategies.
- > HCOs reviewed EHR data for over 1.8 million patients across multiple time points to assess changes in outcomes of interest.

Patient and Provider Insights (Qualitative Measure)

- > Delayed testing for COVID-19 and care seeking among patients when symptomatic was noted. 10%-26% of patient respondents would wait 4+ days from symptom onset to take a COVID-19 test and 21%-25% would wait 6+ days before seeking care.
- 10%-30% of patient respondents had concerns about COVID-19 medication side effects or how the medication works with 6%-30% having never heard of any medicine for COVID-19.
- > In comparison to being prescribed <u>any medicine</u> by their provider, patients were 10%-20% more likely to not trust or feel unsure about trusting <u>COVID-19 medicine</u> prescribed by their provider
- > 27%–30% of patients from historically marginalized racial/ethnic groups felt that their race/ethnicity negatively impacted the quality of their care in general.
- > Providers reported high confidence engaging with treatment and vaccine hesitant patients and utilizing strategies to reduce bias in communication (80%+), however fewer than 50% reported speaking with coworkers about bias.

COVID-19 Treatment Insights (Quantitative Measure)

See Figure 2 and accompanying text

COVID-19 Vaccination Insights (Balance Measure)

- \succ Throughout the project period and unrelated to targeted interventions:
- All groups observed increases in COVID-19 vaccination (4.1%-12.9% increase).
- HCO1 observed higher vaccination rates among Black and Hispanic patients and HCO3 observed a reduction in the disparity between Black and White patients.
- Other disparities by race and ethnicity persisted/slightly increased during the project.

Health System Strategies for Advancing Equity and Reducing Disparities: COVID-19 Treatment and Management

Elizabeth Ruvalcaba, MSPH,¹ Meghana Tallam, MPH,¹ Elizabeth Ciemins, PhD, MPH, MA¹ ¹AMGA (American Medical Group Association), Alexandria, VA

Results Figure 1: Opportunities for Intervention across All HCOs Address side effect Address provider concerns from patients concerns on viral by sharing treatment rebound by sharing benefits, especially for FDA/CDC reports and those with high-risk current research conditions Encourage high-risk Provider education on patients to seek care importance of timely soon after initiation of treatment for high-risk patients, regardless of COVID-19 symptoms or testing positive symptom severity Standardization of treatment protocols to reduce provider bias

Figure 3: Multi-Level Interventions Implemented by HCOs

Health System Level



Figure 4: Sample of Multi-Level Interventions Implemented by **HCOs**

Acking Patiente About Pace/Ethnicity

From left to right: (1) screenshot of mandated provider and staff cultural competency training reviewed health equity terminology and case studies for COVID-19 and maternal health (2) Patient facing tool developed as part of a broader campaign for patient empowerment and advocacy in healthcare for historically marginalized populations; (3) Workflow for smartphrase COVIDPOSITIVEPRV used when patients called in reporting COVID-19 positive home test. Similar workflow was developed for COVID-19 testing completed by HCO.

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Cultural Competency	~		
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Introduction			
What is Cultural Competence?			
Understanding Your Own Culture			
 Inclusive Patient Registration Process 			
Introduction			
220th Legislature			
Definitions			
Gender Identity			
Sexual Orientation			
Ethnicity			
Race			
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Patient & Community Level

Kiosks to address SDOH in community and provide COVID-19 education and outreach

Patient empowerment and advocacy guides to facilitate patients seeking care for COVID-19



COVID-19 Treatment Insights (Quantitative Measure)

- All HCOs saw increases in prescribing of COVID-19 medications over time (0.1%-13.1% increase).
- HCO1 reduced prescribing disparities between Black and White patients by 13%.
- > HCO2 and HCO3 saw variable prescribing disparities over time with some periods of reduced disparity (2%–14% reduction) for Black patients in comparison to White patients.
- > HCO1 and HCO3 reduced prescribing disparities for Hispanic patients in comparison to non-Hispanic by 7% and 4.4%, respectively.



Conclusions & Future Steps

- \succ This study highlights the need for patient, provider, and health system level needs assessments to identify inequities and potential biases to guide HCOs in the development of effective, targeted interventions.
- Understanding local context is a key component for identifying the most appropriate, targeted health equity interventions.
- HCOs were encouraged to re-assess the longterm impact of interventions in 6 months using the quality measures tracked in this study.
- > Implemented interventions were an initial step to address health equity and HCOs were encouraged to continue to build upon completed work including scaling up interventions and implementing additional interventions

Acknowledgements & References

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To view references scan this QR code:



To learn more about this project, read about the kickoff here:

