WELCOME to the RELEASE of

Primary Care and COVID-19: It's Complicated
Leveraging Primary Care, Public Health, and Social Assets

Monday, October 18, 2021
10:00 a.m. ET
Where can I get the report?

bit.ly/2021EvidenceRpt
01 Welcome and introduction
Mark Del Monte, JD | CEO/Executive Vice President, American Academy of Pediatrics

02 Report briefing
Yalda Jabbarpour, MD | Medical Director, Robert Graham Center

03 Panelist presentations
- A. Seiji Hayashi, MD, MPH, FAAFP | Chief Transformation Officer and Medical Director, Mary’s Center
- Glen Mays, PhD, MPH | Professor, Chair, Department of Health Systems, Management & Policy, Colorado School of Public Health
- Sinsi Hernández-Cancio, JD | Vice President for Health Justice, National Partnership for Women and Families

04 Discussion among panelists
Moderated by Ann Greiner, MCP | President & Chief Executive Officer, Primary Care Collaborative

05 Audience Q&A
Report briefing

Yalda Jabbarpour, MD
Medical Director, Robert Graham Center
Special Thanks

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PANIC!!!
Ecology of Care and COVID-19—Primary Care’s Role

- Provide vaccinations
- Viral testing
- Care of respiratory illness, telehealth services during the pandemic
- Redeployment into the hospital setting
Study Overview and Methods

• Created a measure of primary care, public health preparedness and social assets called the “Community Health Index” (CHI)

• Compared CHI with three COVID-19 outcomes:
  • Vaccination rates by county
  • COVID 19 cases by county (before and after vaccination) - per 100,000 population
  • COVID 19 deaths by county (before and after vaccination) - per 100,000 population
Community Health Index

- Primary Care – 1-10
  - Supply rates from American Medical Association Masterfile
- Public Health - 1-10
  - Public Health Preparedness from the National Health Security Preparedness Index
- Social Assets- 1-10
  - Social Deprivation Index from the American Communities Survey

20% of the population lives in the lowest CHI counties
17% of the population lives in the highest CHI counties
Percentage of the Adult Population (18+) who Received COVID-19 Vaccinations*

* Adjusted for county-level percentage of rural, Black, and Hispanic populations

Source: Authors’ analysis of Community Health Index; derived from the American Medical Association Physician Masterfile 2020; American Community Survey 2014-2018 5-year Summary File; National Health Security Preparedness Index 2020; Centers for Disease Control and Prevention COVID-19 County Vaccination Data, April 21, 2021.)
**Figure 2.5**
Number of COVID-19 Cases per 100,000 Population Before and After Date of Vaccination Commencement (Dec. 14, 2020)*

<table>
<thead>
<tr>
<th>CHI Level</th>
<th>Before</th>
<th>After</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lowest CHI</td>
<td>5,600</td>
<td>4,800</td>
</tr>
<tr>
<td>Q2</td>
<td>5,400</td>
<td>4,600</td>
</tr>
<tr>
<td>Q3</td>
<td>5,200</td>
<td>4,400</td>
</tr>
<tr>
<td>Q4</td>
<td>5,000</td>
<td>4,200</td>
</tr>
<tr>
<td>Highest CHI</td>
<td>4,800</td>
<td>4,000</td>
</tr>
</tbody>
</table>

*Adjusted for county-level percentage of rural, Black, and Hispanic populations


**Figure 2.6**
Number of Deaths per 100,000 Before and After the Date of Vaccination Commencement (Dec. 14, 2020)*

<table>
<thead>
<tr>
<th>CHI Level</th>
<th>Before</th>
<th>After</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lowest CHI</td>
<td>140</td>
<td>120</td>
</tr>
<tr>
<td>Q2</td>
<td>120</td>
<td>100</td>
</tr>
<tr>
<td>Q3</td>
<td>100</td>
<td>80</td>
</tr>
<tr>
<td>Q4</td>
<td>80</td>
<td>60</td>
</tr>
<tr>
<td>Highest CHI</td>
<td>60</td>
<td>40</td>
</tr>
</tbody>
</table>

*Adjusted for county-level percentage of rural, Black, and Hispanic populations

Limitations

• Could not control for certain county-level characteristics
  • Testing rates
  • Mask mandates
  • Social distancing or stay-at-home orders
• There are sub-county variations that we couldn’t control for
• Could not control for all individual-level variables
• Includes COVID-19 data only up until April 19, 2021
• Our data did not measure the interaction between the three components of the CHI
Conclusions

- Counties in the top quintile (17% of the country) had high scores on primary care, public health and social assets. It was not one alone!
- Higher CHI is associated with higher vaccination rates
- COVID-19 case rates and death rates decreased after vaccination in every county regardless of CHI
- Counties with the highest CHI had 12% lower COVID-19 case rates and 42% lower COVID-19 death rates than counties in the lowest CHI
Leveraging primary care, public health, and social assets was essential to the response and recovery of COVID-19
Thank you!
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Introduction of Panelists

A. Seiji Hayashi, MD, MPH, FAAFP
Chief Transformation Officer and Medical Director, Mary’s Center

Glen Mays, PhD, MPH
Professor, Chair, Department of Health Systems, Management & Policy, Colorado School of Public Health

Sinsi Hernández-Cancio, JD
Vice President for Health Justice, National Partnership for Women and Families

Discussion moderated by

Ann Greiner, MCP
President & Chief Executive Officer, Primary Care Collaborative
Testing and Positivity
Testing and Patient ZIP Code
Panel Discussion
Q&A