Acknowledgements

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Collaborator
- Optum Analytics - Distinguished Data and Analytics Collaborator
AMGA Mission, Purpose, Vision

- **Mission**
  AMGA advances multi-specialty medical groups and integrated systems of care as the preeminent model to deliver high performance health care

- **Purpose**
  Advance High Performance Health

- **Vision**
  We are leading the transformation that results in healthier people

AMGA: By the Numbers

- **175,000** Physicians practicing at AMGA member groups
- **120 million** Americans receiving care from our members
- **1 in 3** Americans visiting AMGA-affiliated providers

440+ Medical group and health system members
AMGA Members

The page contains images of logos of various medical institutions and organizations associated with the American Medical Group Association (AMGA) Members.

AMGA Foundation

- **Mission**
  
  AMGA Foundation enables medical groups and other organized systems of care to consistently improve health and health care.

- **Vision**
  
  The AMGA Foundation serves as a catalyst, connector and collaborator for translating the evidence of what works best in improving health and health care in everyday practice.
Foundation Programs

Acclaim Award
Best Practices Learning Collaboratives
National Campaigns

AMGA’s Collaborative for Performance Excellence

Total Cost of Care
Practice Efficiency
High-Risk Patients
Clinical Quality and Safety

amga.org/CPX
Collaborative Overview

Objectives

- Identify gaps and ways to address gaps in recommended vaccination practices
- Demonstrate value of a data-driven partnership
- Identify gaps in data capture
- Evaluate the program’s impact
Pilot (Group 1)

- 7 participating orgs
- Only CPX members
Pilot (Group 1)

- 7 participating orgs
- Only CPX members

Group 2

- 19 participating orgs
- Open to ALL AMGA members

Group 3

- 19 participating orgs
- Open to ALL AMGA members

Participants (Pilot, Groups 2 & 3): 42 organizations in 27 states
Objectives

- Identify gaps and ways to address gaps in recommended vaccination practices
- Encourage use of a combination of intervention tools
- Demonstrate value of a data-driven partnership
- Identify gaps in data capture
- Evaluate the program’s impact

Collaborative Timeline

Group 1
November 2014 – June 2016

Group 2
January 2017 - September 2018

Group 3
August 2017 - April 2019
Best Practices/Lessons Learned

- Uni/Bi-directional interface with state adult immunization registry
- Vaccine Champion program established
- Annual Wellness Visits- pneumonia and influenza immunizations included
- Physician compensation- influenza and pneumonia on scorecard
- Daily Gap reports created to capture patients in need of vaccines at the Point of Care.
- Eliminate scheduled immunization appointments
- Transparent data reports sharing (provider and clinic)
- Engaging specialty departments
- Patient reminders
- Improve access to vaccines at the point of care
- Pharmacy training and education to administer vaccines

Group 3 October 2018 Meeting Attendees
Best Practices/Lessons Learned

Pt reminders

Access

AWVs

Best Practices Learning Collaborative Results
Data Source

- Most data was self-reported by participating organizations, using standardized specifications provided by AMGA and Optum Analytics for each measure.
- Data source for approx. one-third of the groups in the learning collaborative was Optum Analytics, who maps and normalizes EHR data from ~30 AMGA member organizations to allow valid comparisons across organizations. Overall, data provided by Optum Analytics represents ~15% of AMGA member organizations and 25% of patients seen by all AMGA members or approximately 25 million patient lives.

Custom Measures for Collaborative

<table>
<thead>
<tr>
<th>Measure</th>
<th>Eligible Ages</th>
<th>Eligible Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pneumococcal 65+</td>
<td>65+</td>
<td>All</td>
</tr>
<tr>
<td>Pneumococcal High Risk¹</td>
<td>19 – 64</td>
<td>cerebrospinal fluid leak, cochlear implants, hemoglobinopathies, asplenia, chronic renal failure, nephrotic syndrome, organ transplant, kidney disease, immunodeficiencies, leukemia, lymphoma, Hodgkin's disease, multiple myeloma, general malignancy</td>
</tr>
<tr>
<td>Pneumococcal At Risk²</td>
<td>19 – 64</td>
<td>diabetes, chronic heart conditions, lung disease, chronic liver disease, alcoholism, smoker</td>
</tr>
<tr>
<td>Influenza</td>
<td>18+</td>
<td>All</td>
</tr>
</tbody>
</table>

¹ High risk conditions require both PCV and PPSV before age 65.
² At risk conditions require PPSV before age 65.
PV Measures (G2): Baseline → Qtr1 → Qtr2 → Qtr3 → Qtr4 → Qtr5

- Group weighted averages across 19 participating AMGA member organizations

**Measure 1 (65+)**
- **Any PV**
  - Absolute Δ 3.8%
  - Relative Δ 4.9%

**Measure 1 (65+)**
- **Both PPSV and PCV**
  - Absolute Δ 10.9%
  - Relative Δ 25.2%
PV Measures (G2): Baseline → Qtr1 → Qtr2 → Qtr3 → Qtr4 → Qtr5

- Group weighted averages across 19 participating AMGA member organizations

<table>
<thead>
<tr>
<th>Measure 1 (65+)</th>
<th>Measure 1 (65+)</th>
<th>Measure 2 (19–64) High Risk</th>
<th>Optional Measure 2A (19–64) At Risk</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any PV</td>
<td>Both PPSV and PCV</td>
<td>Any PV</td>
<td>Any PV</td>
</tr>
<tr>
<td>Absolute Δ</td>
<td>Relative Δ</td>
<td>Absolute Δ</td>
<td>Relative Δ</td>
</tr>
<tr>
<td>3.8%</td>
<td>4.9%</td>
<td>10.9%</td>
<td>25.2%</td>
</tr>
<tr>
<td>10.9%</td>
<td>25.2%</td>
<td>6.2%</td>
<td>20.4%</td>
</tr>
<tr>
<td>6.2%</td>
<td>20.4%</td>
<td>7.3%</td>
<td>22.4%</td>
</tr>
</tbody>
</table>

15 Organizations
PV Measures (G3): Baseline → Qtr1 → Qtr2 → Qtr3 → Qtr4 → Qtr5

- Group weighted averages across 19 participating AMGA member organizations

<table>
<thead>
<tr>
<th>Measure 1 (65+) Any PV</th>
<th>Measure 1 (65+) Both PPSV and PCV</th>
<th>Measure 2 (19–64) High-Risk Any PV</th>
<th>Optional Measure 2a (19–64) At-Risk PPSV or Unknown PV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Absolute Δ 2.2%</td>
<td>Relative Δ 2.9%</td>
<td>Absolute Δ 8.7%</td>
<td>Relative Δ 19.0%</td>
</tr>
<tr>
<td>Absolute Δ 5.2%</td>
<td>Relative Δ 19.0%</td>
<td>Absolute Δ 4.3%</td>
<td>Relative Δ 14.6%</td>
</tr>
<tr>
<td>Absolute Δ 4.3%</td>
<td>Relative Δ 14.6%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

13 Organizations

Influenza Measure (G2): Baseline → Qtr2 → Qtr5

- Group weighted averages across 19 participating AMGA member organizations

**Collaborative Goal**

- Absolute Δ 12.2%
- Relative Δ 34.5%
Influenza Measure (G3): Baseline → Qtr4

- Group weighted averages across 17 participating AMGA member organizations

<table>
<thead>
<tr>
<th>Measure 3 (≥18) Flu</th>
<th>Absolute Δ 6.1%</th>
<th>Relative Δ 14.5%</th>
</tr>
</thead>
<tbody>
<tr>
<td>BL: 7/1/16–6/30/17</td>
<td>42.1%</td>
<td>48.2%</td>
</tr>
<tr>
<td>Q4: 4/1/18–6/30/18</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Estimate of vaccines administered or documented during the collaborative!

Total of ~ 5.5 million vaccinations combined across 3 adult immunization learning collaboratives (Pilot, Groups 2 & 3)

<table>
<thead>
<tr>
<th></th>
<th>Pilot</th>
<th>Group 2</th>
<th>Group 3</th>
<th>Combined</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pneumococcal</td>
<td>500K</td>
<td>~1M</td>
<td>~900K</td>
<td>~2.5M</td>
</tr>
<tr>
<td>Influenza</td>
<td>500K</td>
<td>&gt;1.5M</td>
<td>&gt;1.2M</td>
<td>~3M</td>
</tr>
<tr>
<td>Total</td>
<td>1M</td>
<td>~2.5M</td>
<td>~2M</td>
<td>~5.5M</td>
</tr>
</tbody>
</table>
Summary—What has contributed to improved immunization rates?

- Staff Education, especially about high-risk and at-risk patients for PV
- Physician Champion
- Just calling attention to the program
- Transparent data reporting
- Bi-directional state registry feeds into EMR
- Reminders and/or gaps in care prompts in EMR
- Participating in vaccine programs (e.g. Sanford’s Vax Champ)
- Vaccine reminders and alerts in EMR to alert providers
- EMMI (Automated outreach program)

Next Steps