



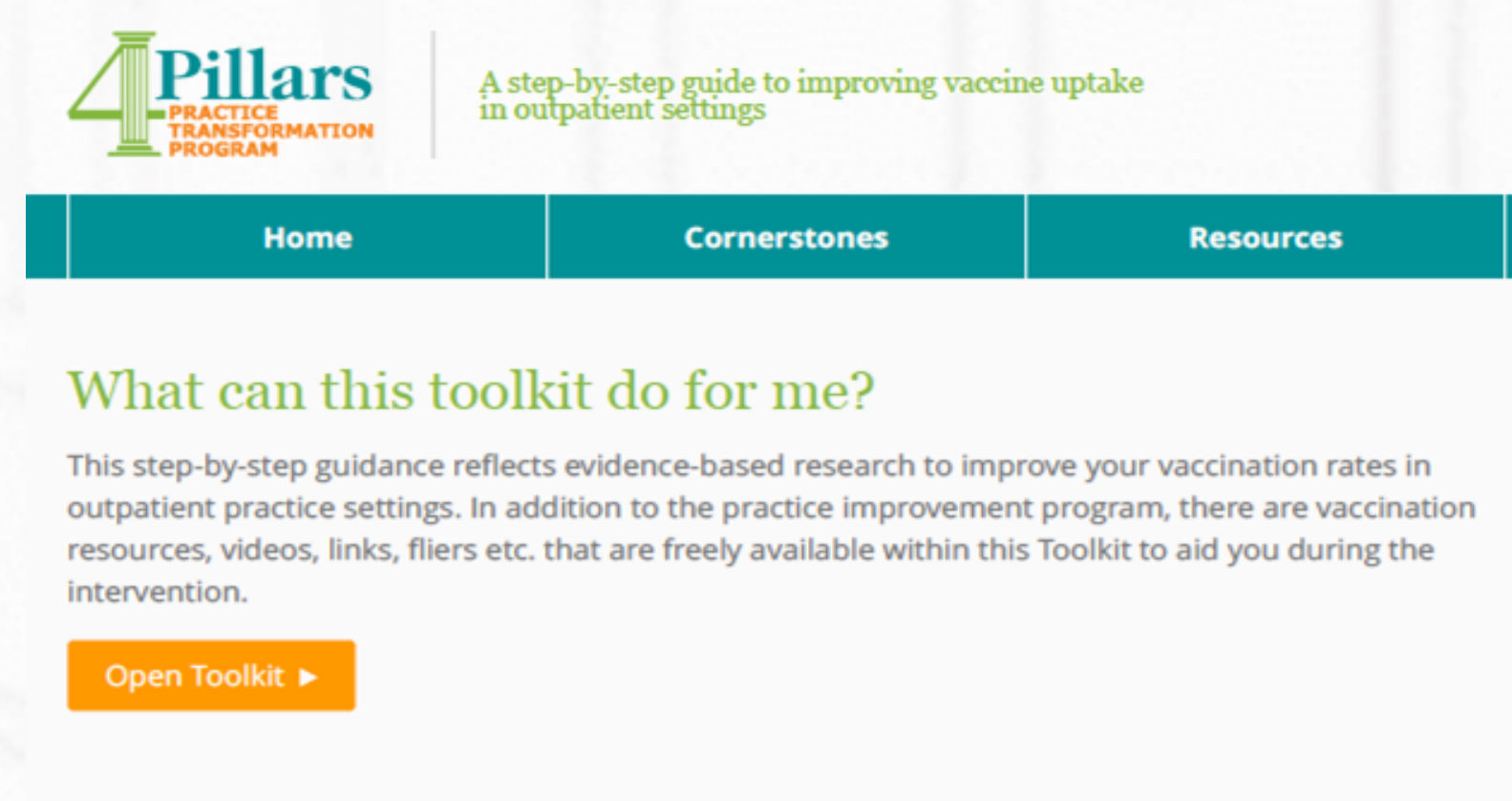
A step-by-step guide to improving outcomes in outpatient settings

Development

The 4 Pillars™ Practice Transformation Program is a cost-effective, online, evidence-based, step-by-step guide to improving primary care vaccination rates.

Evidence Base for Increasing Immunizations

Based on two decades of health services research and the recommendations of the Community Preventive Services Task Force. Improving vaccination uptake requires behavior changes at the system, provider, support staff, and patient levels.



- Pillar 1 Convenience & Easy Access
- Pillar 2 Patient Communication
- Pillar 3 Enhanced Vaccination Systems
- Pillar 4 Motivation by an Office Champion

www.4pillarstransformation.pitt.edu

The 4 Pillars™ Practice Transformation Program Provides Practices with:

- Background materials
- The 4 Pillars™ strategies - proven to increase rates
- Case studies, best practices
- Resources, including fliers, posters, and ready-to-implement Standing Order Protocols
- Ability to track progress

Testing

Approaches

- Randomized controlled cluster trials and pre-post studies
- Mixed-methods study

Results

Adults

Practices increased vaccination rates for several important vaccines:

- 12 - 15 PP* for PPSV
- 3 - 12 PP* for PCV
- 3 - 6 PP* for Influenza
- 6 - 8 PP* for Tdap

Adolescents

Practices increased vaccination rates (MCV, Tdap, HPV initiation and completion) by 15 percentage points or more

* Percentage point increase

Cost Effectiveness of the 4 Pillars™ Program vs. No Program

Only **\$7,635*** per Quality adjusted life year (QALY)

* Any cost below \$100,000/QALY is considered a "good buy."

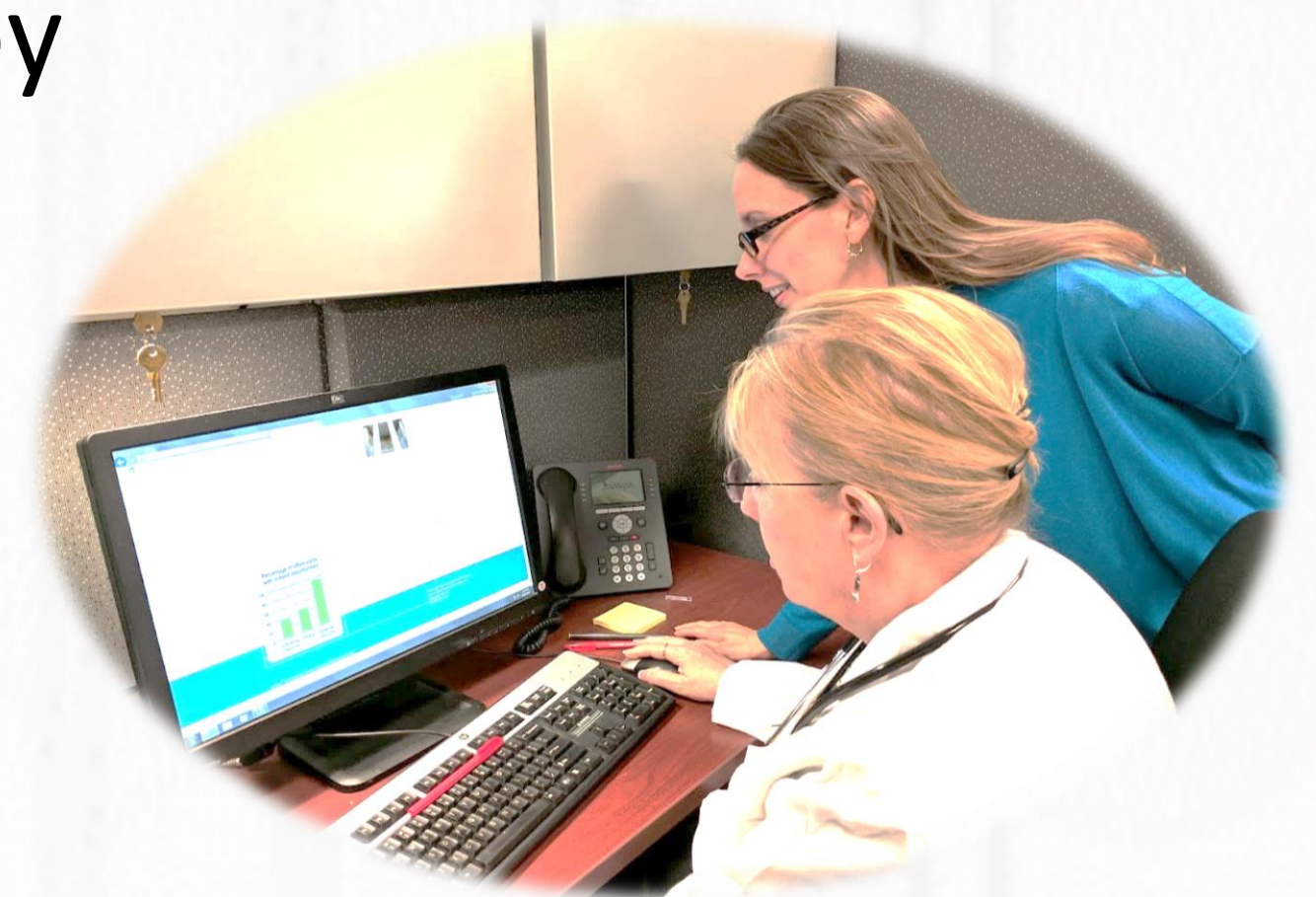
Publications and Awards

- 10 peer-reviewed articles on the 4 Pillars™
- Additional 4 articles under review
- 2013 Certificate of Recognition from U.S. DHHS, AHRQ's Primary Care Practice-Based Research Networks Peer-reviewed Manuscript Contest
- 2017 National Adult and Influenza Immunization Summit Publication Award

Application

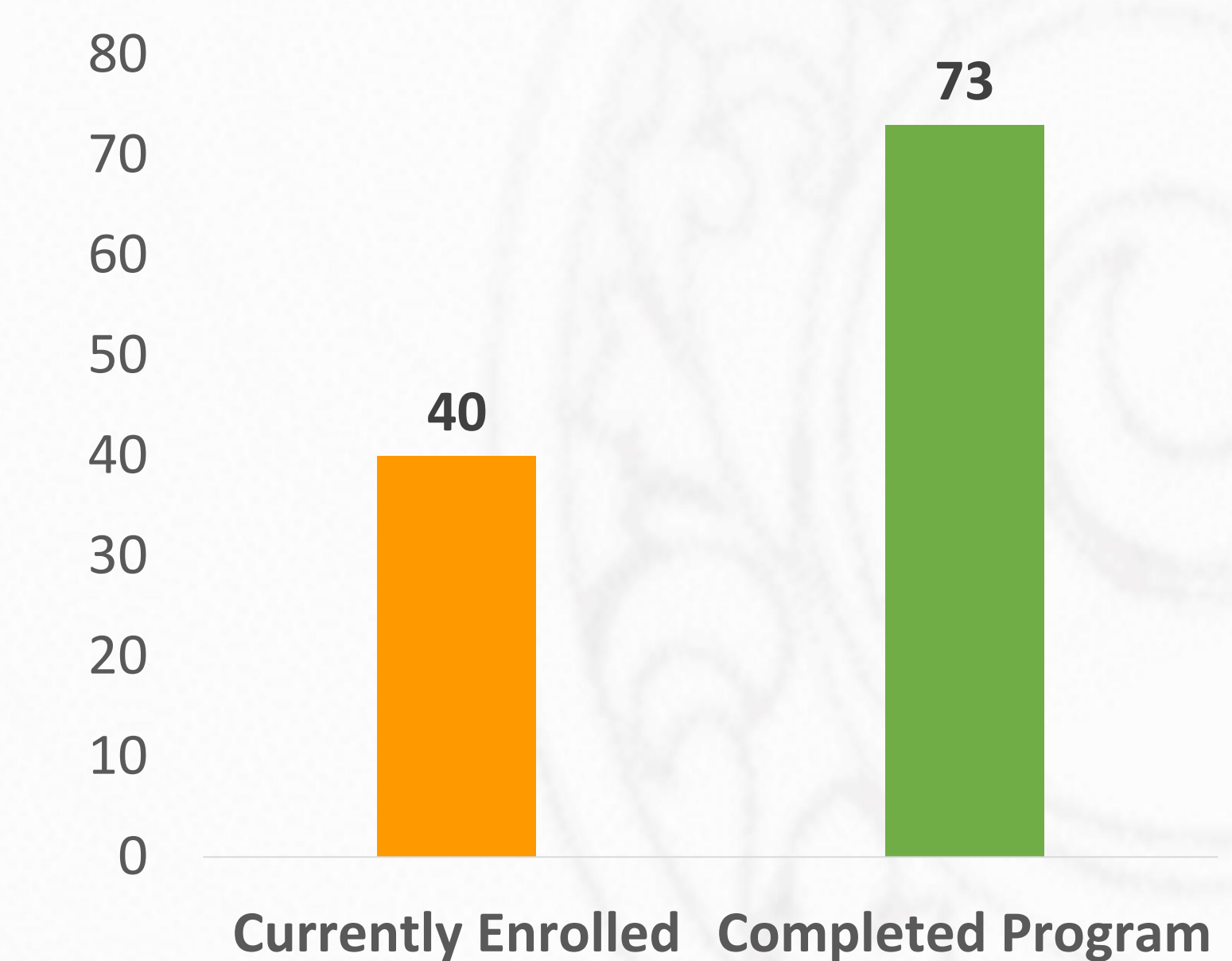
Collaboration with UPMC Community Medicine Inc. (CMI) and Merck & Co. Inc.

- UPMC CMI has independently deployed the 4 Pillars™ Program, assisted by a science educator from Merck & Co. in nearly 40 practices
- Program was readily adopted by practices
- Adult immunization rates are increasing



American Board of Family Medicine Part 4 Performance in Practice Module

Physician Enrollment since November 2015



"I found it very simple and adaptable to the clinic's needs... I now have the results to show the other providers that by taking at least one minute...with each patient...we may be able to see a significant change."

Brian B., APN FNP-C



PittVax Team:

Richard K. Zimmerman, MD, MPH, MA; Mary Patricia Nowalk, PhD, RD; Chyongchiou J. Lin, PhD; Jonathan M. Raviotta, MPH; Krissy K. Moehling, MPH; Samantha Ford; Sean Saul; Michael Susick MPH

