

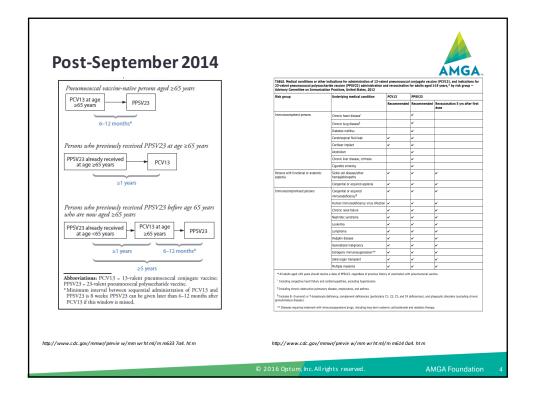
Agenda

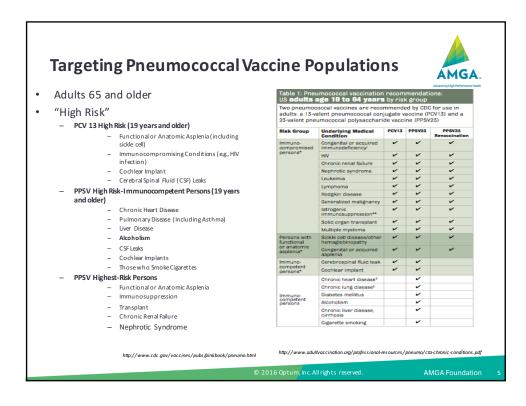


- CDC/ACIP population information for pneumococcal vaccine and influenza
- · Getting the data right
 - The Optum One platform (101)
 - Mapping
 - Normalizing to platform-wide common variables
- Defining what to measure
 - Who is a patient
 - Who is a provider
 - Goals
- Results
 - Pneumococcal 65 and older
 - Pneum ococcal "Risk Conditions"
 - Influenza
- · Speed Bumps
- Next Steps

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Influenza Vaccination Recommendations.

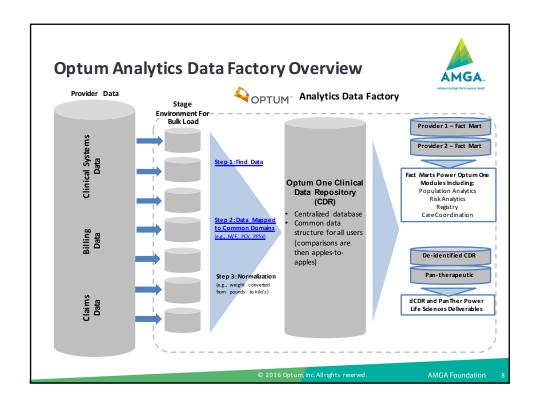


Routine annual influenza vaccination is recommended for all persons aged ≥6 months who do not have contraindications.

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Immunizations Data Sources Used to find Immunizations data in EHRs



- Immunization Tables
- Health Maintenance Tables
- CPT/G Codes
- ICD 9 Codes

Marked variation in where data was documented at the onset of the collaborative. Optum One^{TM} identifies and aggregates from all!

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Pneumococcal Vaccine Variables



- Pt Received Pneumococcal Vaccine (Any), Age 65+
- Pt Received Pneumococcal Vaccine (Both PCV & PPSV), Age 65+
- Pt Received Pneumococcal Vaccine (PPSV), Age 65+
- Pt Received Pneumococcal Vaccine (PCV), Age 65+
- Pt Received Pneumococcal Vaccine (Unspecified), Age 65+
- Pt Received Pneumococcal Vaccine (Any), Age 19-64
- Pt Received Pneumococcal Vaccine (Both PCV & PPSV), Age 19-64
- Pt Received Pneumococcal Vaccine (PPSV), Age 19-64
- Pt Received Pneumococcal Vaccine (PCV), Age 19-64
- Pt Received Pneumococcal Vaccine (Unspecified), Age 19-64

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The Influenza Variables



- Pt Received Influenza Vaccine During the Current Flu Season, Age 18+
- Pt Received Influenza Vaccine During the Previous Flu Season, Age 18+

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CDC/ACIP Recommendations—Consolidation of 1330 ICD-9 Codes (linked to ICD-10) to 9 Risk Condition Variables



Optum One Risk Condition Variable	At Least 1 PPSV	At Least 1 PCV	Both PPSV and PCV
Immunology	V	✓	✓
Nephrology/Renal	V	~	V
Oncology	V	~	✓
Surgical/Transplant	~	V	✓
Chronic Heart Conditions	~		
Chronic Liver Conditions	~		
Diabetes Mellitus	~		
Lifestyle (e.g. Smoking)	✓		
Lung Disease	V		

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Measure Calculation Definitions



Measure	Denominator	Numerator
Pneumo Age 65+	All patients in study, age 65+ ➤ Al Collaborative total: 334,674	All patients denominator with any evidence of pneumococcal vaccine, from age 65+
Pneumo Age 19-64 High Risk	All patients in study, age 19-64, With any evidence of 1+ HR condition > Al Collaborative total: 441,690	All patients denominator with any evidence of pneumococcal vaccine, from age 19+
Influenza age 18+	All patients in study, age 18+ ➤ Al Collaborative total: 1,266,768	All patients denominator with any evidence of influenza vaccine from 7/1 – 6/30 of a given flu year

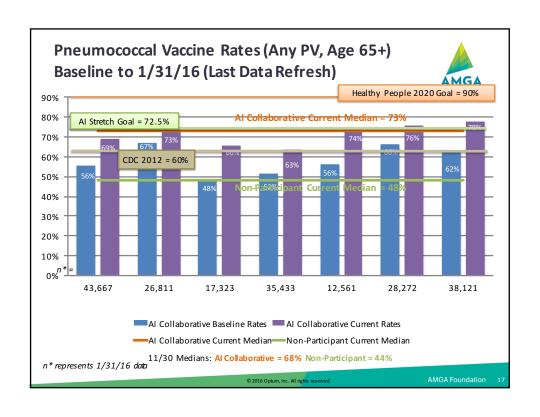
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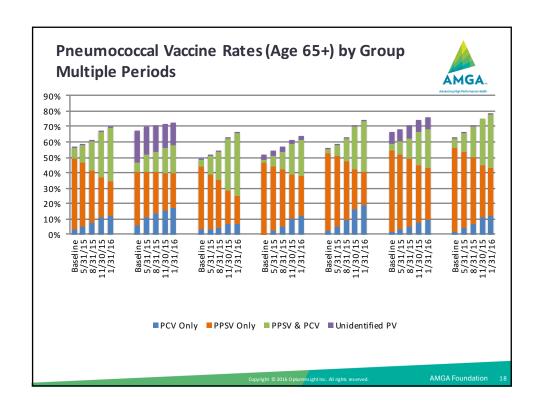
MCA Faundation

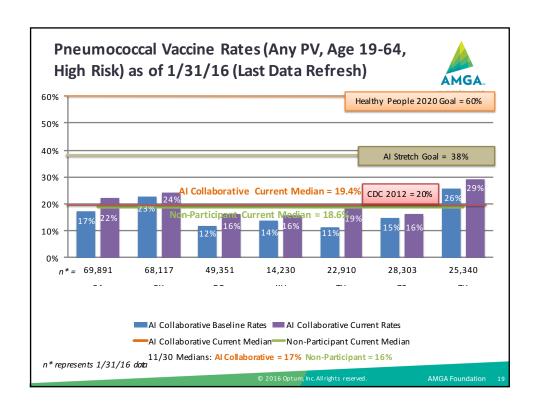
Measure Definitions ÁMGA. Inclusion Criteria: Patients who meet both of the following: 1. Be linkable to a PCP via one of the following: a) Linked to a PCP either via designation in EMR, OR b) Seen by a PCP-eligible provider (FM, IM, GP, NP, PA) in the trailing 24 months, AND 2. Have had at least one ambulatory evaluation and management, and/or procedure claim during the last 24 months **Inclusion Criteria:** Patients that meet Patients (inpatientcriteria 1 and 2 E&M / P visit w/in 24 past mths designation or visit with PCP only or **Exclusion Criteria:** Patients with relevant allergies (i.e. Egg)

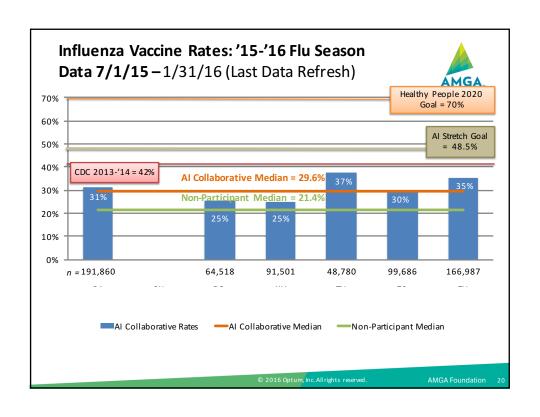
• Healthy People 2020 • AI Collaborative "Stretch" • CDC NHIS 2012











Change from Baseline (%) 1/31/16 (Last Data Refresh)



65 and Older

Pneumococcal Vaccine Profile	Al Collaborative	Non- Participants
Any Pneumococcal	12.9	8.2
PCV	37.3	26
Pneumo Naïve (PCV)	28	11
Both PPSV/PCV	25	13

19-64 (Risk Groups Combined)

Pneumococcal Vaccine Profile	Al Collaborative	Non- Participants
Any Pneumococcal	3.8	1.5%
PPSV	2.8	1.6
PCV	3.5	2.4
Pneumo Naïve (PCV)	2.0	1.4
Both PPSV/PCV	1.9	1.4

During the 2015-16 Flu Season to date: Al Collaborative Influenza Vaccine rate **24.4%** vs. Non-Participant Influenza Vaccine rate **18.9%**

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Speed Bumps



- Skin Cancer
- Chronic Liver Disease/Fatty Liver
- Smoking (Lifestyle)
- Alcoholism (limits legally in mining this data)

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Next Steps with Analytics



- Risk Stacking (Pelton, et.al., Open Forum Infect Dis (Winter 2015) 2 (1):doi: 10.1093/ofid/ofv020) http://ofid.oxfordjournals.org/content/2/1/ofv020.full
- Next Vaccine Due Date
- Improved efficiency in providing reports to providers, office managers
- State Registry Data, Pharmacy Data
- Invasive Pneumococcal Disease Rates

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