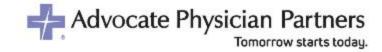
The Role an EMPI System Plays in Population Health Efforts

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IMT – December 4 2019



Presentation Overview

- Who We Are
 - ✓ Advocate Aurora Health Care (AAH)
 - ✓ Advocate Physician Partners (APP)
 - Population Health Key Programs Using the EMPI Solution
- EMPI Healthcare Primer and AAH Model
- Improvements
- Questions

THIS IS transformation

Advocate Aurora Health

By the numbers





\$11.7B

5.2%

OPERATING

MARGIN



\$16.7B

270 DAYS CASH ON HAND 15.9% EBDIT %









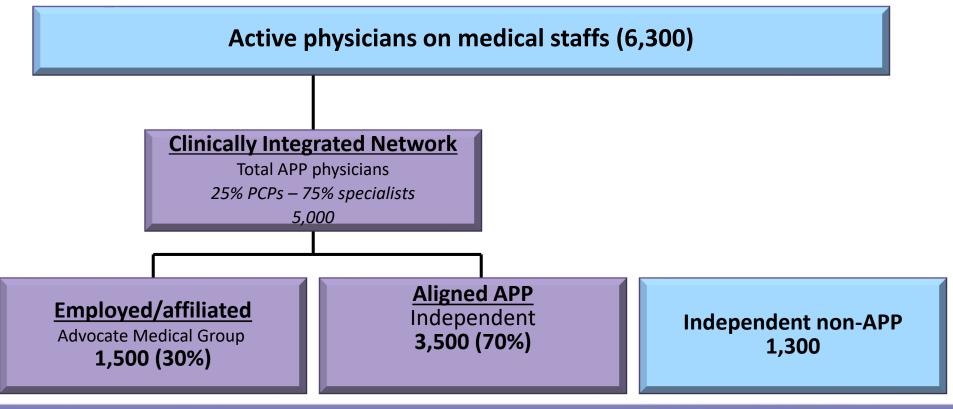


Advocate Physician Partners (APP)

- Enterprise Population Health division is the 9th largest notfor profit integrated health system in the United States
- We bring together our Illinois physicians, hospitals and a post-acute network committed to improving health care quality, safety, and outcomes
- National leader in population health and nationally recognized for our clinical integration (CI) program
- APP is the managed care and contracting division of Advocate Aurora Health
- Physician Hospital Organization (PHO) Risk and Shared Savings managed care contracts



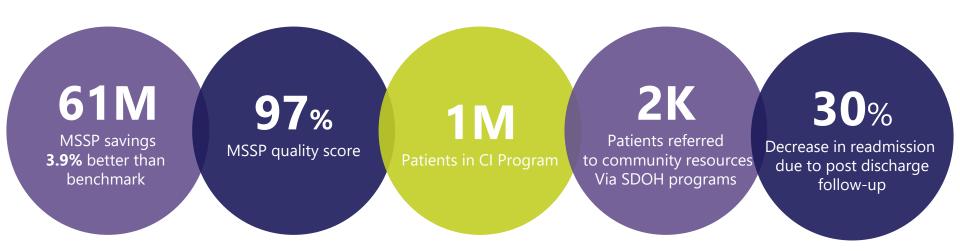
Pluralistic Physician Approach



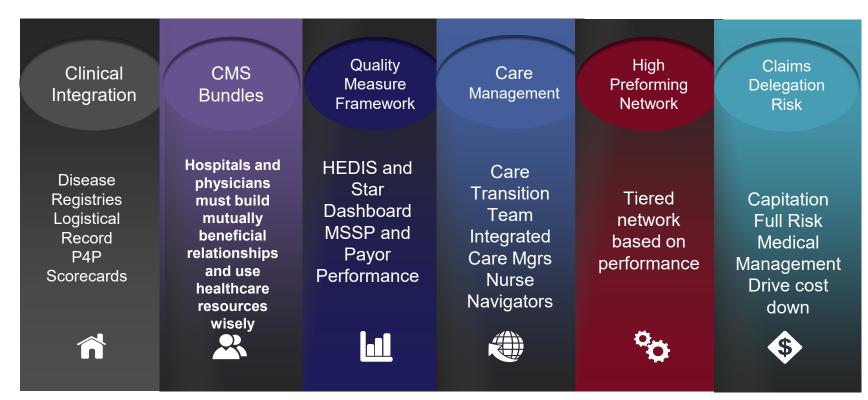
AdvocateCare® Population



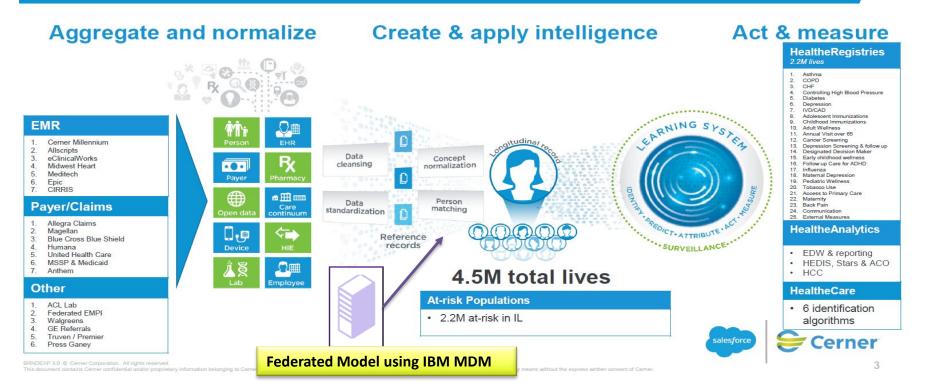
Quick Stats



Key Programs



Population Health Platform: Cerner HealtheIntent HealtheIntent at APP_IL



EMPI – Healthcare Primer and AAH Model

EMPI Identified Risks



- Patients may suffer medical errors due to missing health information in their records.
- Patient matching issues resulting in duplicates cost hospitals and health care organizations an average of \$1,000 to \$2,000 per duplicate.



Overlays

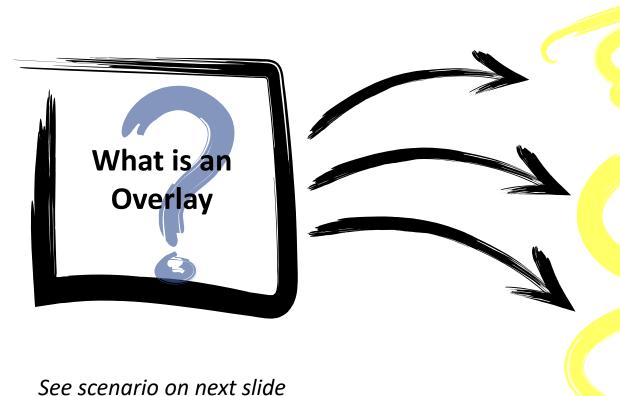
- Overlays that co-mingle multiple patients' records may cause medical errors or death.
- HIPAA violations.
- Costly to the organization if a medical error or death occurs.



- Multiple name variations
- Data entry errors
- Systemic issues
- Lack of data standardization processes.

A typo or absence of a single digit in one's birth date, address, phone or social security number only compounds the issue. Patients move, marry, divorce and visit multiple providers in their community where new records are created and the potential for duplicates and overlays grows.

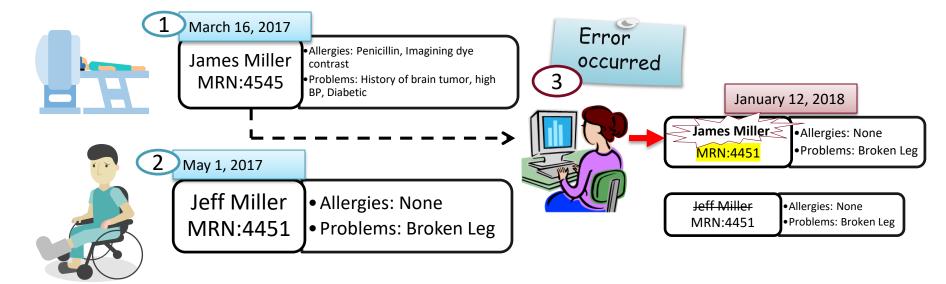


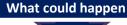


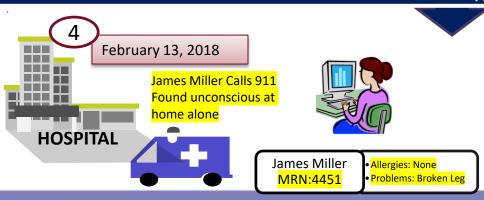
Same MRN

TWO different people

Co-mingled clinical information



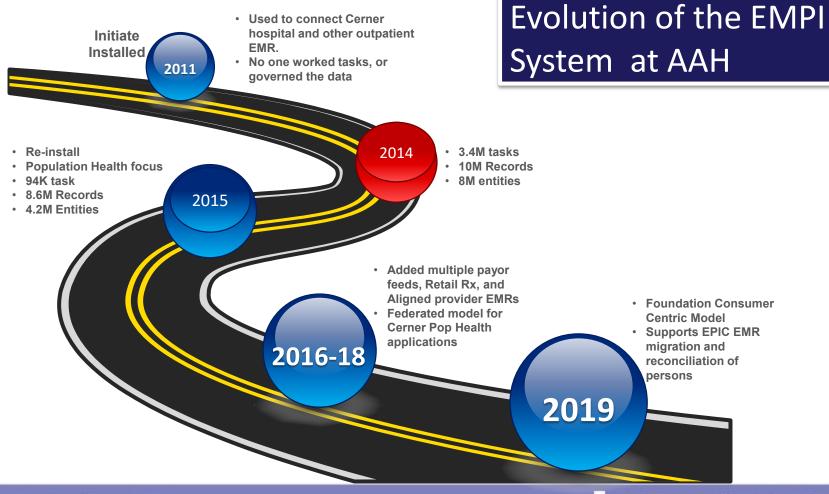






Patient Safety Medical Emergency

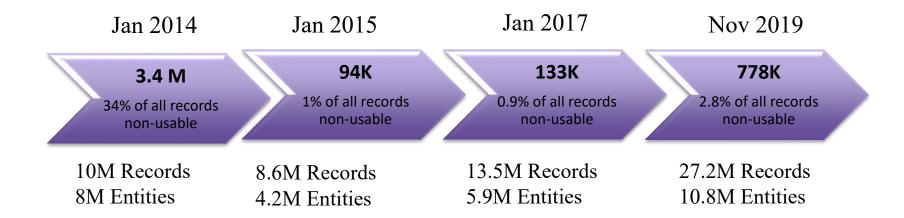




AAH EMPI Vision Statement

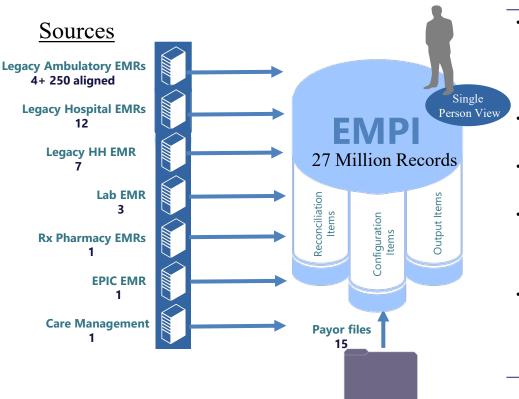
- The EMPI is the system that is used for patient identity at an enterprise level to link together internal and external data. This tool is the safety net for the entire enterprise and is a key control to monitor source system, beyond their normal workflows.
- The linkage data that is managed by the EMPI is continuously utilized for enterprise population health, enterprise analytics, data integration projects, and any solution requiring single source records.

AAH Statistics



AAH EMPI Solution

Use Case Examples



Population Health single patient identifier for HealtheIntent

- Registry
- Care Management
- Utilization Management

EPIC Migration

EMPI used to reconcile thousands of records

RME Processing in EPIC

- Matches Payor data to FPIC identities
- Enterprise Population Reporting
 - Single identifier across populations for targets
 - > HCC reporting
- **EPIC Identity Management**
 - Overlay detection
 - Duplicate identification

MSSP Identification in EMR

Workflow for SNF 3 day waiver

ACO Identification in EMR

Workflow for Inpatient and ER notification

NOWPOW

 Social Determinants of Health Tool – Requirement to have a single identifier for all payor and EMR records

New Partnerships

Ability to easily link people together across new systems

Imaging Archive Solutions

65 legacy systems combined into a single solution

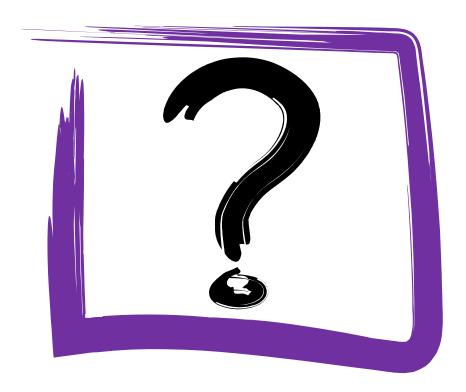
Improvements Made

- Created a data steward team to manage tasks and reconcile data
- Senior leadership governance council created
- Formalized onboarded standard operating procedure
- Fixed interface issues going into the EMPI system (messages were not being translated correctly)
- Third party call out to verify address and write back update (reference data)
- Created custom reporting packages
- Created P&P and workflows within and across the enterprise

Capability Comparison EMPI VS MPI

CAPABILITIES	EMPI/MDM	EMR/MPI
Matching		
Probabilistic Matching		×
Deterministic Matching		
Phonetic Algorithms		×
Nickname/Aliases		×
Duplication Detection		
Overlay Detection		×
False Positive Filters		×
Data Remediation/Tools		
Task Assignment/Workflows		
Full Audit History	②	
Fuzzy Searches		
Data Quality Framework		
Business Needs		
Performance		
Data Quality		
Accuracy		
Source Agnostic	©	8

Questions













Hospital CFO Report































