Navigating the Health IT Landscape

John K. Evans MHA, FACHE
President and CEO
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Breakfast

Networking Reception

All Day Coffee

AM Break

Health Language®

OPTUM™

imprivata®

primarycare

vālant

PRIMMER

Vermont Association of Hospitals and Health Systems
Exhibitors

Allscripts
Atlas Medical
Amgen
Cerner Corporation
CynergisTek
MEDENT
MedKaz
Merck Vaccines
Medical Information Technology, Inc.
Medtronic

OhMD
PatientPing
Quest Diagnostics
State of Vermont Office of Disability Determination
SymQuest
The University of Vermont Technical Services
Valant
Wolters Kluwer
Thank-you Speakers

For the generous contributions of your knowledge and time!
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30 AM - 10:30 AM</td>
<td>General Session</td>
</tr>
<tr>
<td>10:30 AM - 11:15 AM</td>
<td>AM Break &amp; Exhibits</td>
</tr>
<tr>
<td>11:15 AM - 12:12 PM</td>
<td>Session 1</td>
</tr>
<tr>
<td>12:15 PM - 1:35 PM</td>
<td>Lunch and Exhibits</td>
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<tr>
<td>12:40 PM - 1:35 PM</td>
<td>Lunch Speaker</td>
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<tr>
<td>1:45 PM - 2:45 PM</td>
<td>Session 2</td>
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<tr>
<td>2:45 PM - 3:00 PM</td>
<td>PM Break &amp; Exhibits</td>
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<tr>
<td>3:00 PM - 4:00 PM</td>
<td>Session 3</td>
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<tr>
<td>4:00 PM</td>
<td>Summit Concludes</td>
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</table>
Succeeding in a Population Health Environment
Population Health Strategic Objectives

1. Build collaboration, consensus, and commitments among key stakeholders.
2. Identify and engage data sources and owners to obtain access to required data.
3. Design and implement data access, transmission, and analytics processes.
5. Develop and implement reporting on population health measures.

Using VITL to Power Population Health

Data Quality
Patient Matching
Security Framework
Consent Framework
Standardization
Normalization
Demographics
Laboratory and Pathology
Radiology
Transcriptions
Medications
Clinical Summaries

Workflow
Analysis

Point of Care
Care Coordination
Patient Engagement
Care Management
Analytics
Clinical Alerts

VHIE
Population Grouping
Data Warehouse

Health Data Mgmt
Medicity

Summit '16: Navigating the Health IT Landscape
When a confused patient ends up in the Emergency Department...
Using VITL to Power Population Health

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- VHIE

Point of Care | Care Coordination | Patient Engagement | Care Management | Analytics | Clinical Alerts

Summit '16: Navigating the Health IT Landscape
Care Coordination Across the Health Care System

When Mrs. Alexander Goes to Northwestern Medical Center...

Northwestern Medical Center Analysis

- UVM Medical Center: 47.14%
- Northwestern Medical Center Practices: 8.40%
- Northern Tier Center for Health: 4.16%
- Primary Care Health Partners: 6.82%
- Cold Hollow Family Practice: 2.01%
- Other HCOs: 6.56%

Messages from NMC for NMC Patients: 414,198 (25%)
Messages from other sources for NMC Patients: 1,315,570 (75%)
Veteran’s Health Administration

• The VA-enrolled veteran population has increased by 78% from FY2001 to FY2014.
• As a proportion of the total veteran population, the VA-enrolled veterans have increased from 20% in FY2001 to 42% in FY2014.
• Since FY2003, 63%-65% of VA enrolled veterans have used VA health care each year

Bagalman, E, The Number of Veterans That Use VA Health Care Services: A Fact Sheet, Congressional Research Services, June 3, 2014.

VITL is working to connect the VHIE with the Veterans Administration’s EHR

White River Junction VA Medical Center, Vermont
Using VITL to Power Population Health

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Comm Wide Data

Point of Care | Care Coordination | Patient Engagement | Care Management | Analytics | Clinical Alerts
---|---|---|---|---|---

Data Warehouse

Population Grouping

VHIE

Health Data Mgmt

Medicity

Summit '16: Navigating the Health IT Landscape
Brittany is three and has a fever...
Using VITL to Power Population Health

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OhMD

- Workflow
- Analysis

Data Warehouse

- Population Grouping
- VHIE

Health Data Mgmt

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Summit '16: Navigating the Health IT Landscape
Supplying the data for ACO Care Management
Using VITL to Power Population Health

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**Data Warehouse**

- **Population Grouping**
- **VHIE**

**Health Data Mgmt**

**Medicity**

**Summit ’16: Navigating the Health IT Landscape**
Reliable and High Quality Data for Performance Analytics

Data Quality

Source

Network

Dashboards
Reliable and High Quality Data for Performance Analytics

- Health Language terminology services engine maps local codes to national standards
- Data quality dashboards help to identify missing or non-standard data
- Tableau Business Intelligence for data analysis and graphical reporting
- Result: quality data for analytics
VITL Impact Study

• Demonstrate the value of VITL to key stakeholders based on our knowledge, experience and services.

• VITL is attempting to measure the impact of interventions at a systemic level
  o Across health service areas
  o With several independent variables
  o Over a sustained period of time

• Types of interventions:
  o Technology – interfaces
  o Data quality – Sprints, well formed CCDs, standard terminologies
  o Community activity – VITLAccess, Client Services consulting

• Preliminary findings from Lab Results Delivery:
  ○ Mean salary repurposed / year $810,262

• Next phases will measure the impact of other types of interventions based on changes in utilization (claims data)
Using VITL to Power Population Health

**Data Quality**

**Workflow**

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**Ownership**

- Health Data Mgmt
- Medicity

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**Summit '16: Navigating the Health IT Landscape**
Uncle John Adams hasn’t been taking care of himself...

Using PatientPing John is tracked through the health system.
Knowledge of Where Patients are Treated With Clinical Alerts

SHARED PROFILE & VISIT HISTORY
Determine historic patient utilization and identify other members of the patient's care team to streamline coordination efforts

<table>
<thead>
<tr>
<th>Visit History</th>
<th>Care Team</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUNRISE WEST MEDICAL CENTER</td>
<td>8/6/16 (3 DAYS)</td>
</tr>
<tr>
<td>August 9th, 2016 3:59 AM</td>
<td>DISCHARGED from Sunrise West Medical Center (HOS) observation to Home</td>
</tr>
<tr>
<td>August 6th, 2016 2:15 PM</td>
<td>TRANSFERRED to Sunrise West Medical Center (HOS) observation</td>
</tr>
<tr>
<td>August 6th, 2016 6:22 AM</td>
<td>ADMITTED to Sunrise West Medical Center (HOS) emergency</td>
</tr>
<tr>
<td>SUNRISE NORTH SKILLED NURSING FACILITY</td>
<td>6/27/16 (18 DAYS)</td>
</tr>
<tr>
<td>SUNRISE NORTH MEDICAL CENTER</td>
<td>6/23/16 (4 DAYS)</td>
</tr>
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VITL is Positioned to Power Population Health

- Healthcare delivery system changes
  - Delivery system consolidation
  - Practices changing and upgrading EHR systems
  - Hospitals are undergoing large-scale EHR projects, such as Brattleboro (Cerner)

- VITL is your reliable central point for aggregation of data for multiple purposes:
  - All-Payer Model Implementation
  - MACRA / MIPS Reporting
  - Information at the point of care – more accessible than ever.
  - Data normalization and standardization to support population health initiatives
Using VITL to Power Population Health

- VITL Access
- Communication Data
- OhMD
- Care Navigator (Example)
- Data Quality
- Patient Ping

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Workflow Analysis

Data Warehouse

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Summit '16: Navigating the Health IT Landscape
Kathryn Becker Van Haste

Director of Health Policy and Health, Veterans & Business Outreach for Senator Bernie Sanders