MN eHealth Summit

2019



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My Journey to Health IT





The Macroenvironment:

- U.S. spends more on healthcare and less on social support services than other countries ...
- With worse health outcomes
- Healthcare costs keep rising
- Massive changes, increasing complexity
- Cost and quality are connected
- Provider burnout







Change is necessary



Delivery System Reform: **Better, Smarter, Healthier**





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Learning Health System



Research and Public Health Databases







Prompted by President Barack Obama's Precision Medicine Initiative⁵ and Vice President Joe Biden's Cancer Moonshot,⁶ the leaders of the federal health agencies are seeking unprecedented collaborations among agencies involved in biomedical research and health care delivery with regard to data sharing, research infrastructure, and computational capabilities. Such collaborations require combining expertise and resources and will entail substantial changes to the culture of clinical research, interactions between providers and patients, and the ways in which health systems, clinicians, and patients work together with the clinical research community to create a new

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Technology: An important tool







- Natural Language Processing
- Image/Pattern Recognition
- Neural Networks
- Ensemble
- Predictive analytics





Population Health Approach

No "One Size Fits All" Solution

- Need a personalized approach to address individual barriers
- Focus on patients who need the most intervention
- Tie reimbursement to keeping people well







Use Data and Analytics to Get AHEAD of Catastrophic Events





Natural Language processing on Customer Service and Care Management Call Notes or Transcripts



Medication Adherence, Care Coordination and Care Gaps

> Actionable Items for Intervention



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Outreach/

Substance Dependency

Actionable



Benefit and Claim Status



Improving Prediction of Inpatient Events

- A predictive model was developed on members with selected chronic conditions (CAD,CHF,DIAB,HYPTN,ASTHM,COPD) to predict the likelihood of inpatient hospitalization in the next six months.
- Improved timeliness of recent adverse events
- Condition-specific models
- Enhancements lab results, social determinants of health, timelier data, etc.



"12+3' model achieved 87% improvement over commercially available models in predicting hospitalizations
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Analytics-Driven Clinical Strategy



for example



Develop and Execute Tactics/ Clinical Interventions



Outpatient Home Monitoring: Hypertension









HTN Digital Initiative



Blood Pressures changes at 3 and 6 months

-- Par group with uncontrolled BP (≥140/90 mmHg in baseline period)

The distribution of both systolic and diastolic BP shifted towards left (lower) side



- The average BPs of Par group decreased at 3 and 6 months after enrolled in HDMP. The decreases of systolic BP were statistically significant.
- 51.4% of 'uncontrolled' members had the BP controlled at 6 months.

Healthcare is about what happens between visits.



Emphasize Quality

There are neighborhoods in NOLA with lower life expectancies than Afghanistan!

WHY?! Poverty, disparity, socio-economics.

What Goes Into Your Health?



Source: Institute for Clinical Systems Improvement, Going Beyond Clinical Walls: Solving Complex Problems (October 2014)

Adapted from The Bridgespan Group



Social Determinants Put LA 50th



- Louisiana ranks average or above in clinical care measures -
- But is below average on social measures!
- Poor rankings on poverty, obesity, environment, income, etc. put us 50th



When you go out in the world, hold hands and stick together.





Behavioral Science

"People are human"

- Washington 2019

- Bias toward the present
- Overestimate future success
- Influenced by group behavior
- Gravitate toward the easy path
- Not analytical in decision making





Powered by VAL Health



Before and After: Care Management

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Just call us at: 14 8 a.m. to 5 Monday th	906.317.2299 p.m. routh Finday (encept holidays)		
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	Important information about health and wellness topics that are relevant to you.		
	 Online health tools, provided at www.bchsla.com that will help you better understand your healthcare options. 		
	We want you to benefit from this excellent program; but if you decide not to participate, just call us.		
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Call to Action

- Consider fundamental change
- Access the available tools
- Recognize that community is central to health
- Meet people where they are



Discussion

