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Population Health	
Management	-
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HIMSS 2014	
Healthcare Intelligence	
Disclosure Telligen	
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■ Paul Mulhausen and Brian Barry are	
employed by Telligen.	-
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Healthcare Intelligence	
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Session Objectives	
Session objectives	.
You will be able to define population health management	
(PHM) and population medicine. You will recognize the opportunity to use PHM solutions to	
achieve better care, healthier populations, and lower costs. You will understand the keys to a successful IT	
implementation of a PHM solution.	
 You will apply population health management models and the chronic disease pyramid to chronic disease prevention and 	
management.	-
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Iconic Image of Western Medicine Telligen The Doctor 1849, Luke Fildes



Is it.... The relative investment into healthcare services vs. social services to support health? The management of resources in a population of patients in a capitation payment arrangement health plan? The management of healthcare resources for a geographic population served by a healthcare system? The coordination of care for a panel of patients cared for by a clinical service or healthcare system? Employee Wellness Programs?

What is Population Health Management?



- The relative investment into healthcare services vs. social services to support health?
- The management of resources in a population of patients in a capitation payment arrangement health plan?
- The management of healthcare resources for a geographic population served by a healthcare system?
- The coordination of care for a panel of patients cared for by a clinical service or healthcare system?
- Employee Wellness Programs managing demand?

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Population Health



Population Health is a concept of health defined as "the health outcomes of a group of individuals, including the distribution of such outcomes within the group".

Example Populations

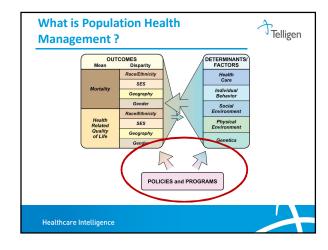
- Geographic regions
- Employees
- Nations
- Ethnic Groups
- Communities
- Health Plan Members

Kindig and Stoddart. Am J Pub Health 2003; 93(3):380-383

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Telligen OUTCOMES Mean Disparity Mortality RacoEthnicity Related Quality OLICIES and PROGRAMS Kindig and Stoddart. Am J Pub Health 2003; 93(3):380-383 Healthcare Intelligence



Defining Population Health Management



Improving the systems and policies that affect health care quality, access, and outcomes, ultimately improving the health of an entire population.

Editorial Board of the Journal *Population Health Management*

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Population Health Management Confusing Terminology



- Population Health Management
- Population Management
- Population Medicine
- Empanelment
- Panel Management
- Public Health

Population Medicine



"The specific activities of the *medical care system* that, by themselves or in collaboration with partners, promote population health beyond the goals of care of the individuals treated."

Harvard Pilgrim Department of Population Medicine

http://www.improvingpopulationhealth.org/blog/2012/06/is-population-medicine-population-health.html

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The Rationale for Population Health The US HHS National Quality Strategy

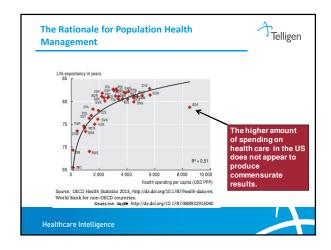


- Better Care: Improve the overall quality by making health care more patient-centered, reliable, accessible, and safe
- Healthy People/Healthy Communities: Improve the health of the U.S. population by supporting proven interventions to address behavioral, social, and environmental determinants of health in addition to delivering higher-quality care
- Affordable Care: Reduce the cost of quality health care for individuals, families, employers, and government.

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The Rationale for Population Health Management Proportional Contribution to Premature Death Social Genetic Ge



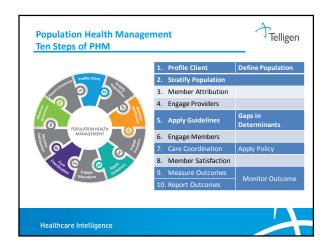


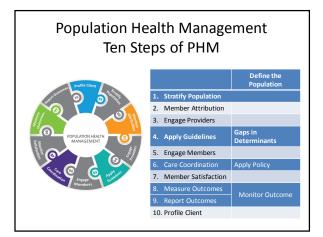
Rationale for Population Health Management in Healthcare



- Complements the medical provider role as a consultant.
- Improves coordination of care in a system of complex care.
- Enhances recognition and closure of care gaps.
- Opportunity to intervene at root causes.



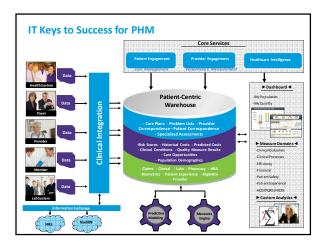


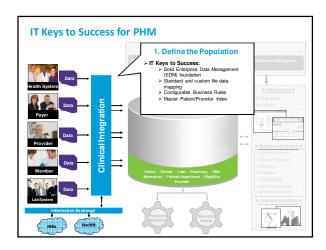


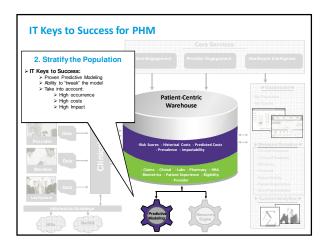


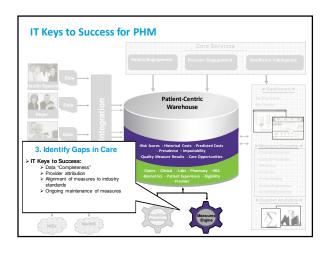
Population Health Management Disabling the Broad Street Pump						
Steps in PHM	Ending the Broad Street Cholera Epidemic					
1. Define the Population	People living in the Soho District of London					
Stratify or characterize the population	Those with cholera and those without cholera, and where they live					
3. Identify gaps in determinants	Water from Broad Street Pump					
4. Apply policy or procedure to close the gaps in determinants	Remove the Broad Street Pump Handle					
5. Monitor the outcome	Cholera epidemic stops					
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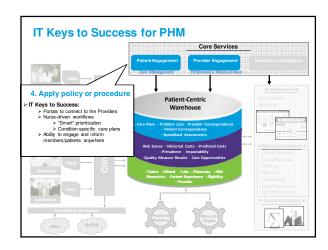


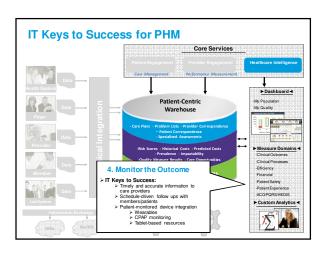


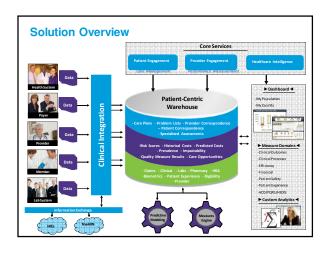










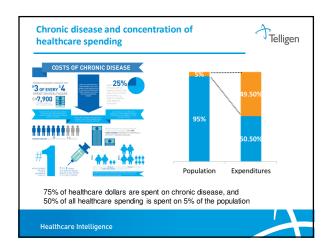


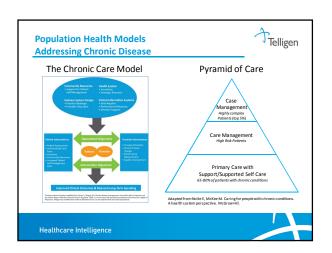
Telligen "Future State" of PHM



- Automated alerts
 - Member: email, text messages, apps
 - Provider: care gaps, performance scores, CDS (integration with EHRs)
- Device integration
 - Mobile: disease, nutrition, socio-economics, gamification
 - Monitoring devices: pedometers, glucometers, scales, CPAP
 - Bi-directional Data integration: HIE, EHR, Public reporting
- Automated Intelligence/Natural Language Processing
- Big Data; tap the value of unstructured data
- Financial/Actuarial modeling
- Social Networking
 - Care Team, Member self-management, chat rooms

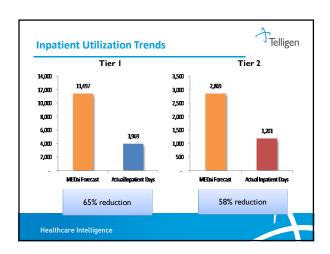


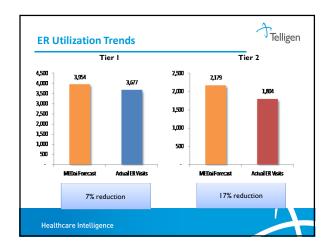


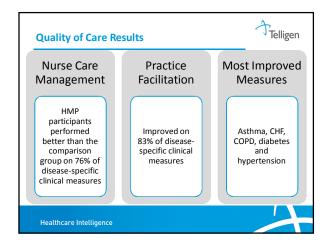


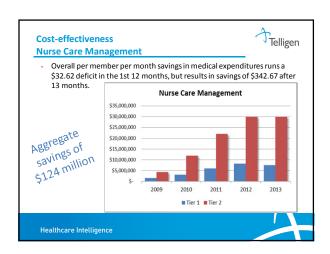
Steps in PHM	High Risk Care Management
1. Define the Population	SoonerCare Members with Common Chronic Disease
2. Stratify or characterize the population	Regression models to predict risk of utilization and expenditures: Tier 1. Highest Predicted Risk Tier 2. Next Highest Predicted Risk
Identify gaps in determinants	Care manager assessment Clinical registry of claims and quality measures

Steps in PHM	High Risk Care Management
Apply policy or procedure to close the gaps in determinants	Health coaching Self-management support Outreach for treatment and prevention Care Coordination Coordination of social services
5. Monitor the outcome	Closure in Care Gaps/ Rates of Hospitalization/Costs









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- Population Health Management strategies can be applied to the prevention, treatment, and care of patients.
- Population Health Models and models of risk stratification can guide the development and implementation of population management strategies.
- Approaches to care that incorporate population health management strategies can impact quality and cost of care.
- New information management technologies can help clinicians integrate population health management into their clinical work flow.

