IBM Watson Health

Promises of Data- Driven Health and Care

Update on Population Health Management

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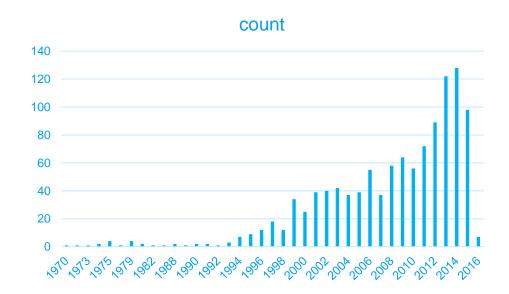










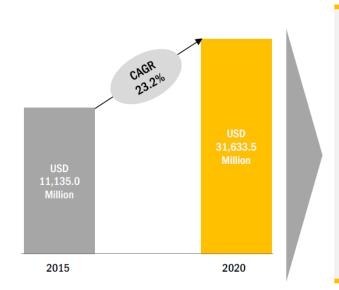


Pubmed search: title 'population health', + species = human. English language.



4.1 POPULATION HEALTH MANAGEMENT - MARKET OVERVIEW

FIGURE 12 IMPLEMENTATION OF THE AFFORDABLE CARE ACT (ACA) IN THE U.S. IS DRIVING THE GROWTH OF THE POPULATION HEALTH MANAGEMENT MARKET

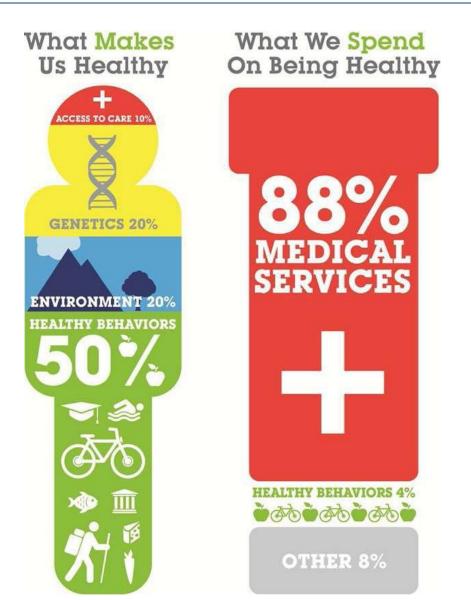


MARKET OVERVIEW

- The global population health management market is projected to reach USD 31,633.5 million by 2020
- Market growth is attributed to the implementation of the Affordable Care Act (ACA), incentives and investments by the federal government for the adoption of HCIT, rising aging population, and increasing prevalence of rising chronic disease cases
- North America is expected to account for the largest share—83.8%—of the population health management market in 2015
- North America is poised to be the fastest-growing market, growing at a CAGR of 23.5% from 2015 to 2020

Source: Center for Population Health Sciences, The Institute for Health Technology Transformation (iHT2), Healthcare Information and Management Systems Society (HIMSS), American Medical Group Association (AMGA), International Association of Health Policy (IAHP), Institute of Population Health (University of Manchester), Institute of Population and Public Health (IPPH), Public Health Agency of Canada, Caisse Nationale d'Assurance Maladie des Travailleurs Salariés (CNAMTS) (France), Expert Interviews, and MarketsandMarkets Analysis

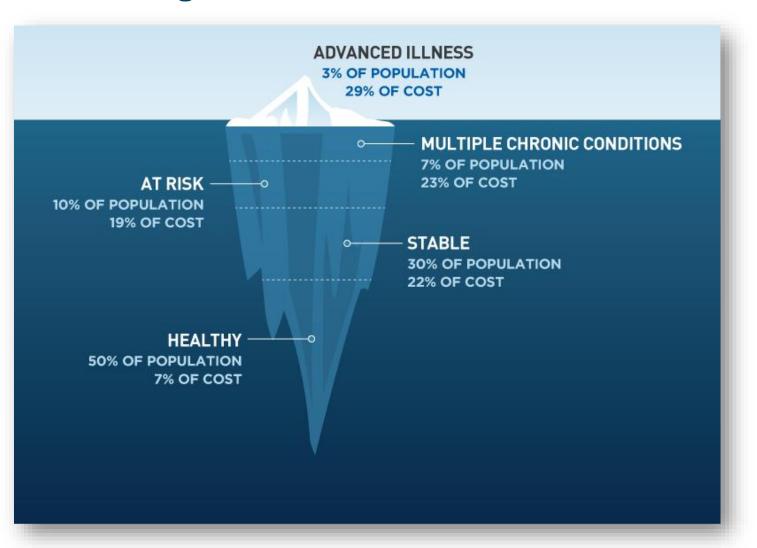




Source: Bipartisan Policy Center, "F" as in Fat: How Obesity Threatens America's Future (TFAH/RWJF, Aug. 2013)



Focusing on sickest does not bend the cost trend







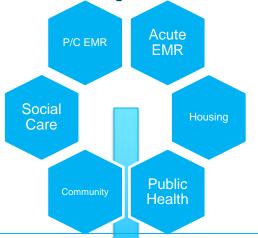
Key facets of population health management

- Substantial use of data
- Comprehensive view of 'health' physical, mental, whole person
- Early Intervention, Health Promotion and Prevention
- Wider determinants of health considered eg Income maximisation, legal advice, housing, education
- Addressing lifestyle behaviours
- Population stratification / risk prediction
- Care pathways defined and used, automated management
- Self-management
- Integration across agencies & team based care

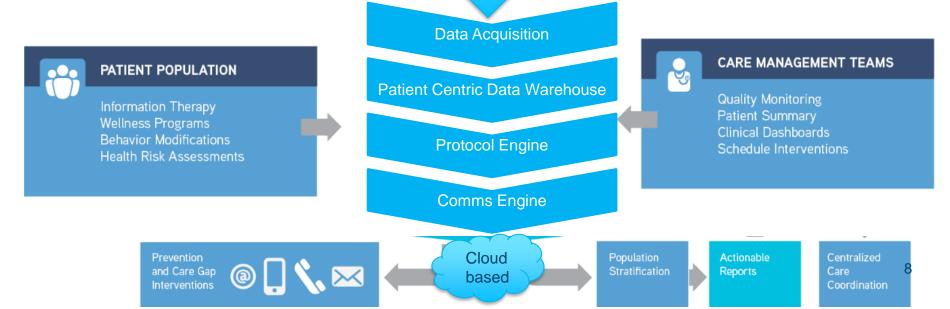




New delivery models require integrated data...



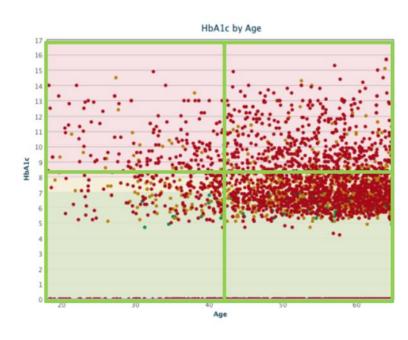
Unique Patient ID / Master Patient Index – patient reconciliation / linkage





Taking Action on "Actionable Data"

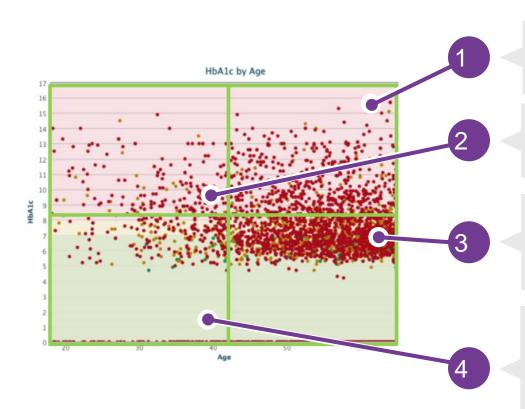
Understand the population:





Taking Action on "Actionable Data"

Address entire population with targeted interventions



All >9 A1c and no planned GP visit are sent a text message to call care manager

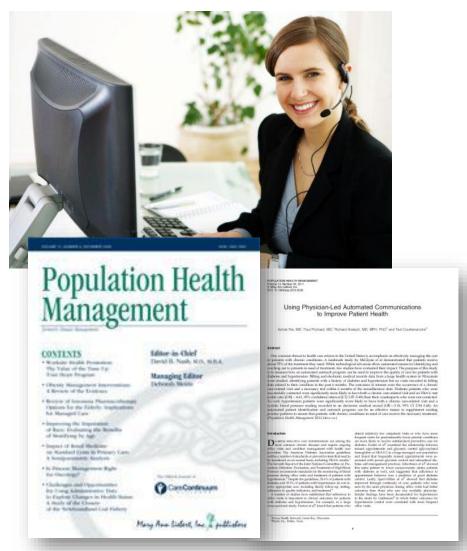
All >9 and BMI >35 are sent an automated invitation to a group visit with a diabetes dietician

All between A1c 7 and 9 are sent an automated message to encourage visit website to take diabetes self-management course

All diabetics <7.0 are sent an email message emphasizing the importance of nutrition and exercise to maintain low A1c levels with a link to a mobile app to track their progress



Bring people into the system (appropriately)



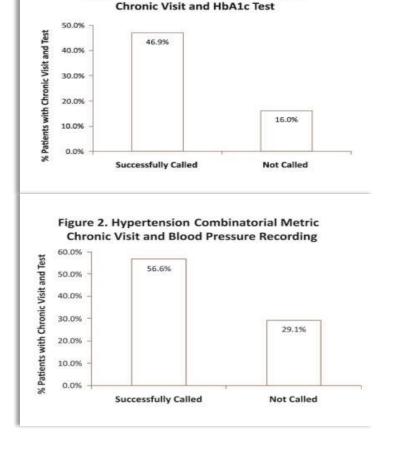


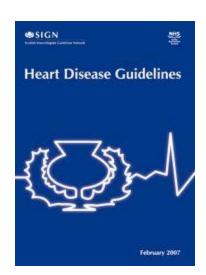
Figure 1. Diabetes Combinatorial Metric



Automate



2016 JUNE						
SUN	MON	TUE	WED	THU	FRI	SAT
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	26
26	27	28	29	30		







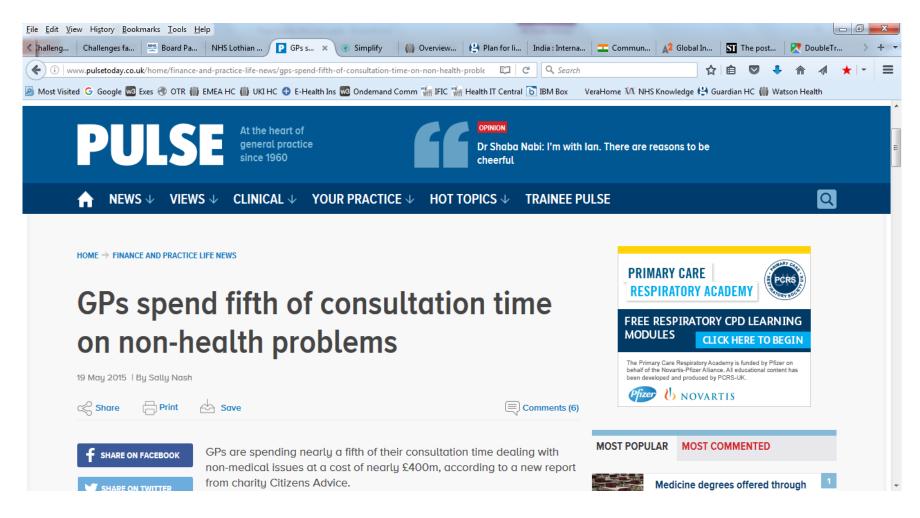
Patient engagement / self management





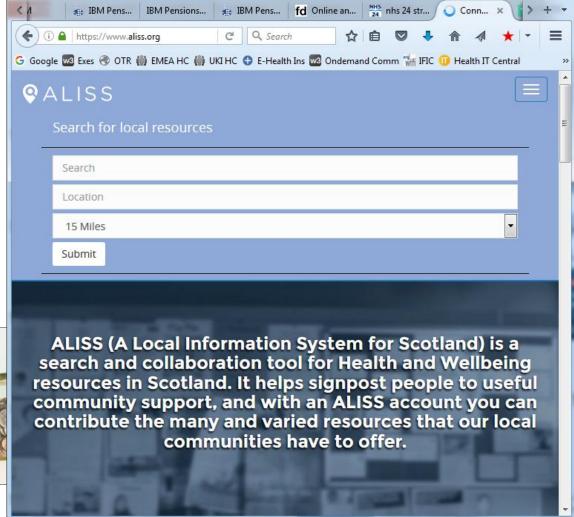


Comprehensive view of 'health' / wider determinants







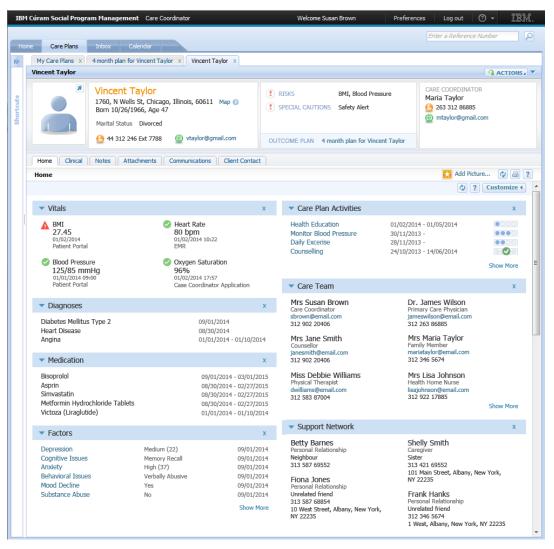


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Team based care – integrated across agencies

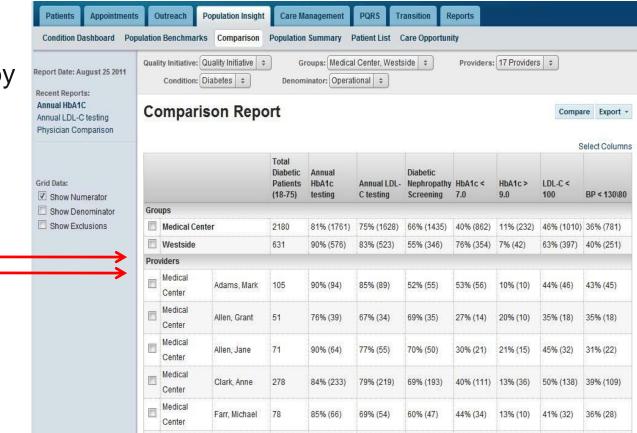




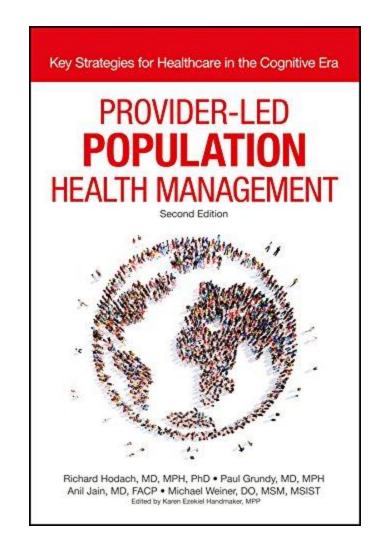
System Comparison

eg Identify variance in care by practice

Identify variances by practice to target improvement strategies







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Population Health Management - one person at a time

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