International Clinical Analytics Summit

Smarter Hospitals

Safer Patients

Better Outcomes

Improving Safety, Quality, and Costs through Shared Innovative Analytics

Keith Salzman, M.D. Chief Medical Information Officer, IBM

April 2, 2015 7:30 a.m. – 4 p.m.

MITRE Baltimore

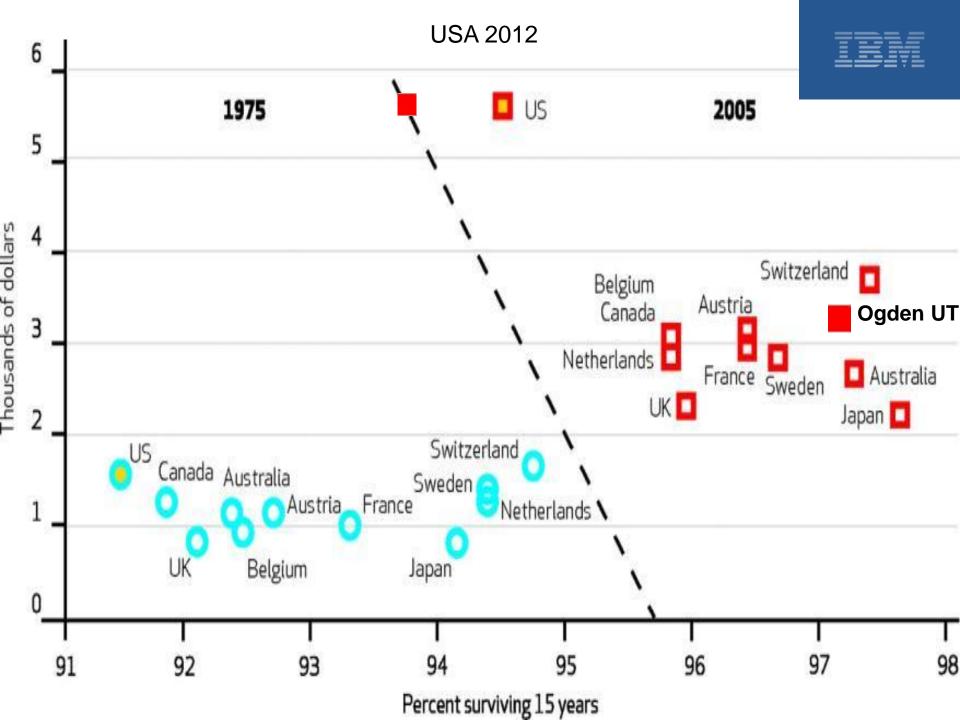
2275 Rolling Run Drive, Windsor Mill, MD 21244

Smarter Care through Transformation



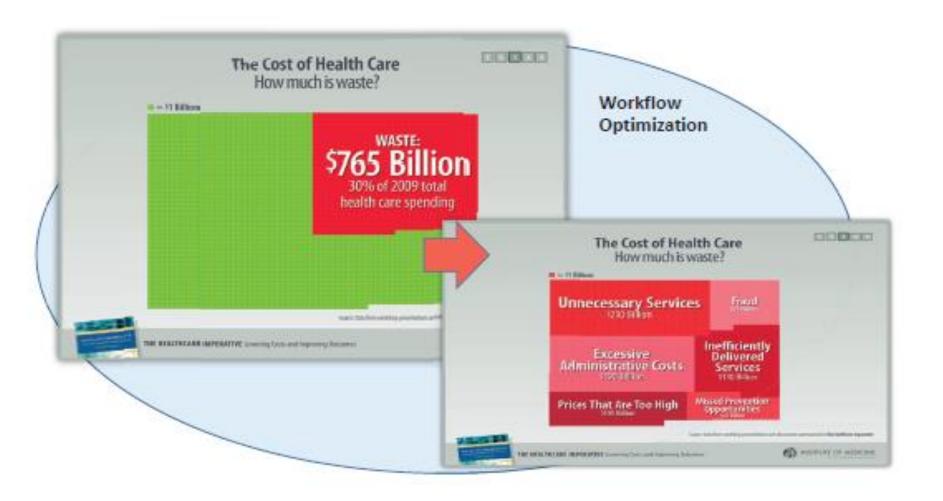
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Workflow Optimization



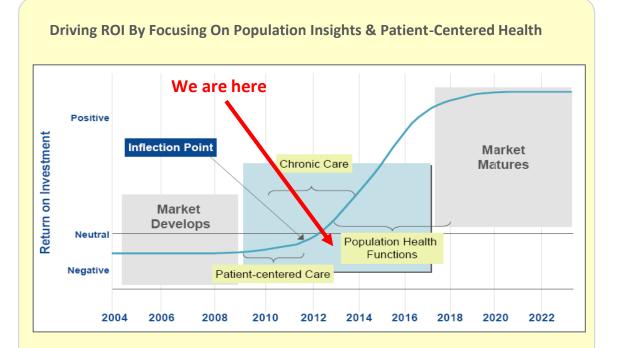


IOM-The Healthcare Imperative: Lowering Costs, Improving Outcomes

http://resources.iom.edu/widgets/vsrt/healthcare-waste.html?keepThis=true&TB_iframe=false&height=729&width=871



Dynamic transformations with tremendous, disruptive and unprecedented change at an accelerated rate and pace



Triple Aim = improved access & health outcomes at lower costs

Perfect Storm = increased longevity + massive information access + poor health + unsustainable rising costs

access + poor health + unsustainable rising costs



Healthcare in the United States operates as a patient-centered ecosystem, meaning a "system of systems", with numerous and often uncoordinated touch points

Point of Care is Changing • Consumerism of Health & Wellness

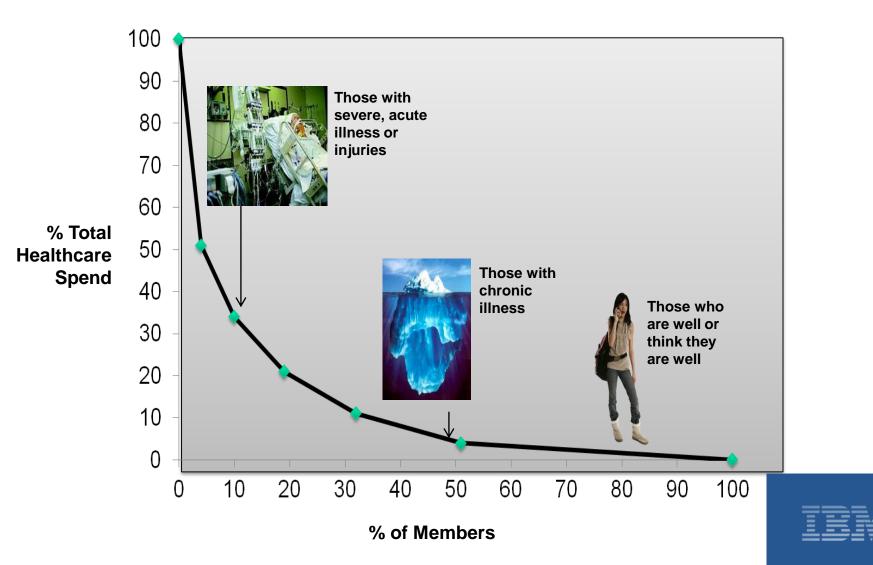
> Managing Populations with focus on Preventive & Chronic Care

Evidence-Based Medicine - Personalized Patient Advocacy & Education - Patient Centered Collaborative Care

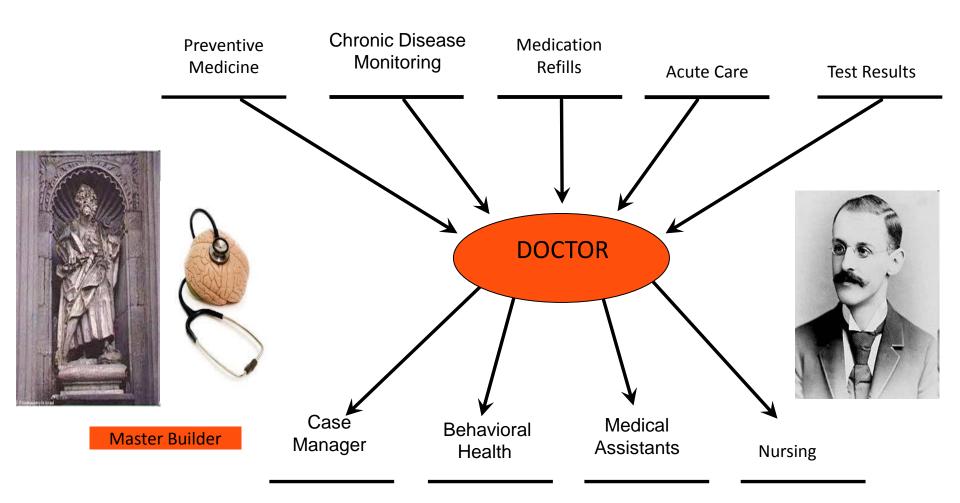
Shift from Volume to Value driving Payment Reforms in financial reimbursements

Impact of Health Reforms

Benefit Redesign - Patient Engagement Different Strategies for Different Healthcare Spend Segments

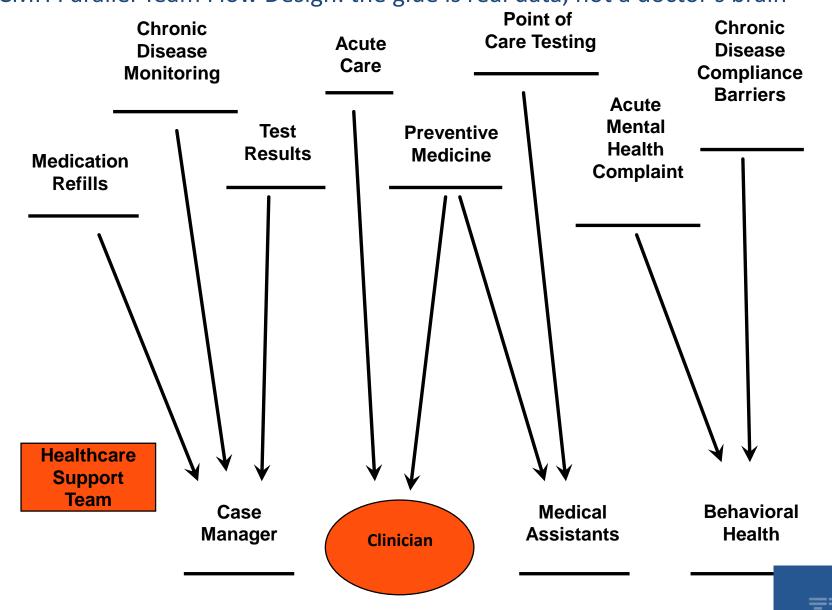


Practice transformation away from episode of care



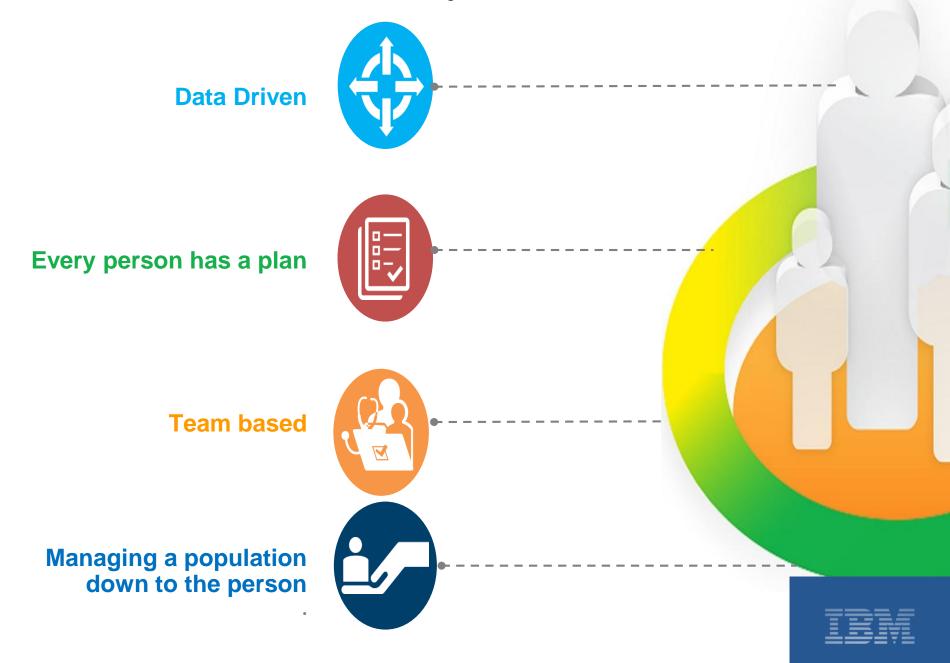
Source: Southcentral Foundation, Anchorage AK





PCMH Parallel Team Flow Design: the glue is real data, not a doctor's brain

Healthcare Will Transform --- Family Medicine for America's Health

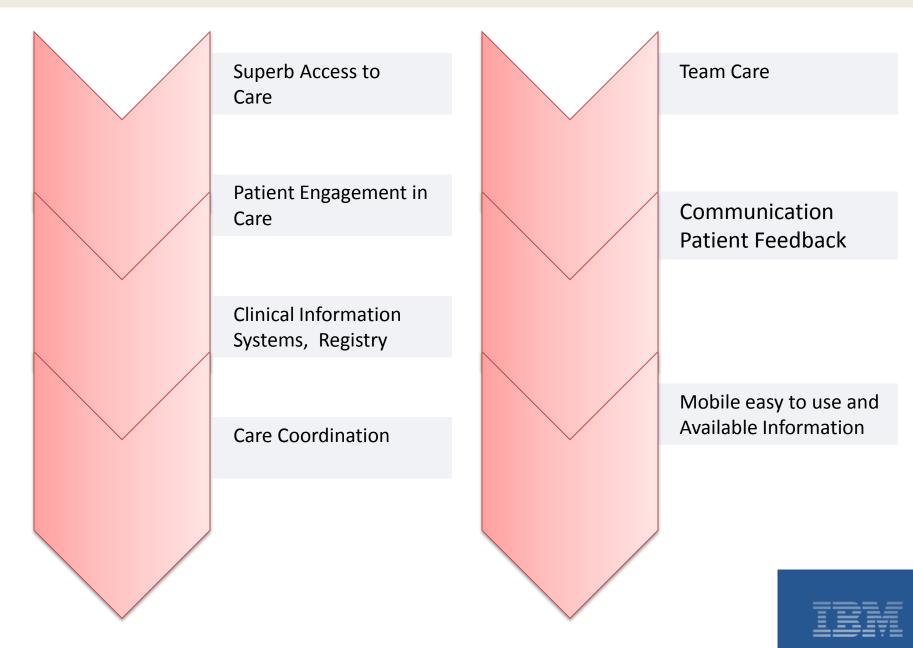


Today's Care		PCMH Care
My patients are those who make appointments to see me		Our patients are the population community
		Care is determined by a proactive plan to
Care is determined by today's problem and time available today	\longrightarrow	meet patient needs with or without visits
		Care is standardized according to evidence-based
Care varies by scheduled time and memory or skill of the doctor	\longrightarrow	guidelines
I know I deliver high quality care because I'm well trained		We measure our quality and make rapid changes to improve it
		A prepared team of professionals coordinates all
Patients are responsible for coordinating their own care	\longrightarrow	patients' care
		We track tests & consultations, and follow-up after
It's up to the patient to tell us what happened to them		ED & hospital
Clinic operations center on meeting the doctor's needs	\rightarrow	A multidisciplinary team works at the top of our licenses to serve patients



Slide from Daniel Duffy MD School of Community Medicine Tulsa Oklahoma

Defining the Care Centered on Patient



Trajectory to Value Based Purchasing:

Achieving Real Care Coordination and Outcome Measurement

Primary Care Capacity: Patient Centered Medical Home

Value/ Outcome Measurement: Reporting of Quality, Utilization and Patient Satisfaction Measures Value-Based Purchasing: Reimbursement Tied to Performance on Value (quality, appropriate utilization and patient satisfaction)

Achieve Supportive Base for ACOs and Bundled Payments with Outcome Measurement and Health Plan Involvement

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Infrastructure: EHRs and Connectivity



Payment reform requires more than one method, you have dials, adjust them!!!



"fee for health" "fee for value"



"fee for outcome" "fee for process" "fee for belonging



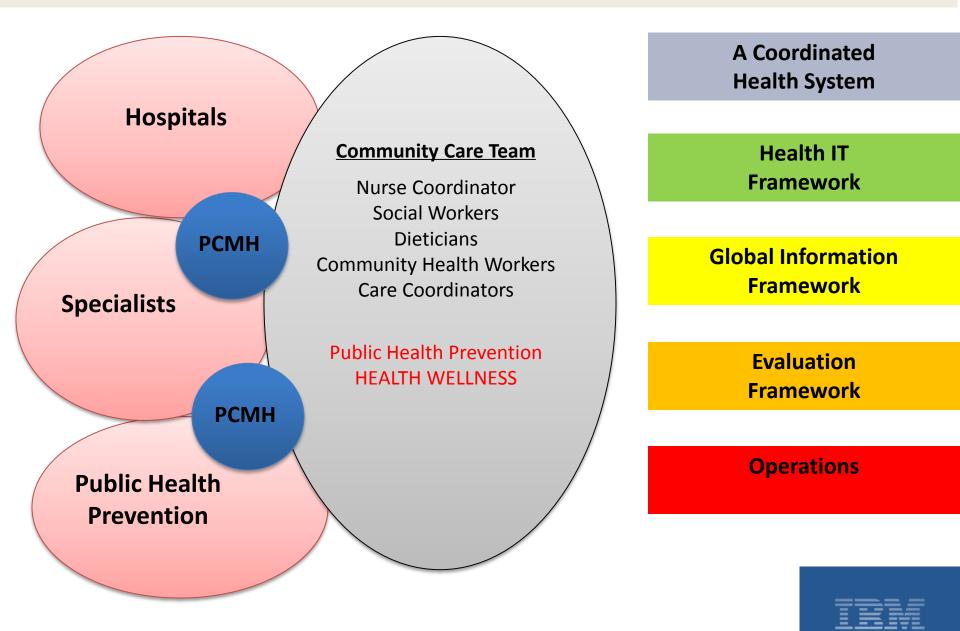
"fee for process" "fee for belonging "fee for service" "fee for satisfaction"



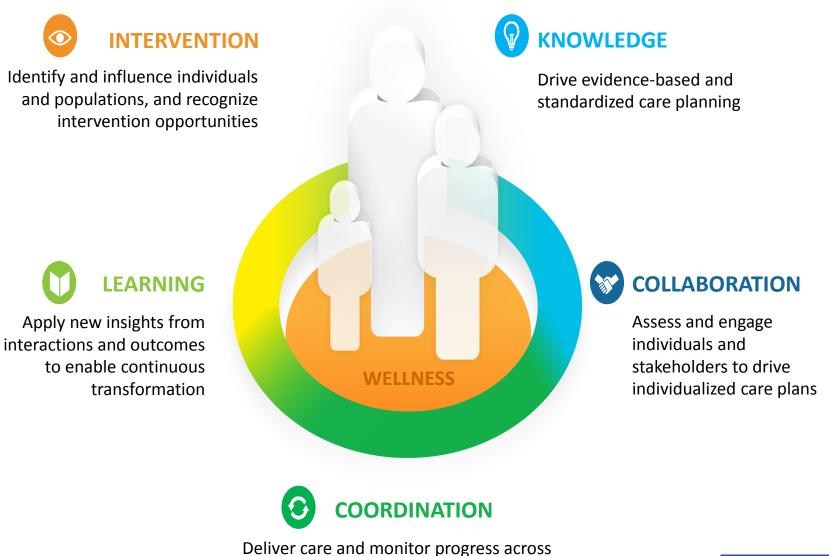




PCMH 2.0 in Action



A comprehensive approach helps reduce costs while improving care



clinical and social requirements



Summary

- Understand healthcare transformation, support it with intentional adjustments along the way
- Use the digital capabilities to support process improvement rather than dumping digital solutions on analog processes making them fast and inefficient
- Focus on redesign and ubiquity of infrastructure and use SOA/ESB to extend the infrastructure at the margins
- Continue to identify waste and gain the efficiencies of smarter care

