

Innovating in Education and Patient Care to Reshape the Future: *Medical Education 2030* and Beyond

Vineet Arora MD MAPP
AIAMC 2019 ANNUAL MEETING

Objectives

- Learn a conceptual framework for how bridging leadership can promote alignment between education and exceptional clinical care
- Learn to create educational initiatives to promote alignment;
- Learn how to create health systems innovation that aligns with needs of trainees





It is 2030

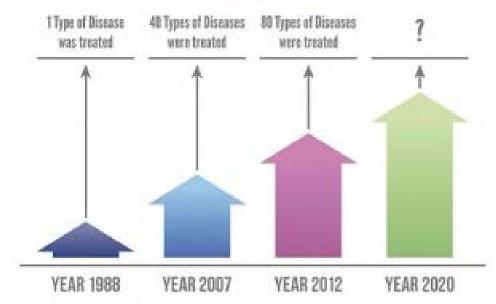


Talking a different language Generation X **Generation Y** Generation Z Baby boomers Formative Maturists experiences (pre-1945) (1945-1960) (1961-1980) (1981-1995) (Born after 1995) Wartime rationing Cold War Fall of Berlin Wall 9/11 terrorists Economic attacks downturn Rock'n'roll 'Swinging Sixties' Reagan/Gorbachev/ Global warming Thatcherism Social media Nuclear families Moon landings Mobile devices Live Aid Invasion of Iraq Defined gender Youth culture Cloud computing roles - particularly Reality TV Early mobile Woodstock Wiki-leaks for women technology Google Earth Family-orientated Divorce rate rises

Attitude toward career	Jobs for life	Organisational - careers are defined by employees	"Portfolio" careers - loyal to profession, not to employer	Digital entrepreneurs - work "with" organisations	Multitaskers - will move seamlessly between organisations and "pop-up" businesses
Signature product	Automobile	Television	Personal computer	Tablet/smartphone	Google glass, 3-D printing
Communication media	Formal letter	Telephone	E-mail and text message	Text or social media	Hand-held communication devices
Preference when making financial decisions	Face-to-face meetings	Face-to-face ideally but increasingly will go online	Online - would prefer face-to-face if time permitting	Face-to-face	Solutions will be digitally crowd-sourced

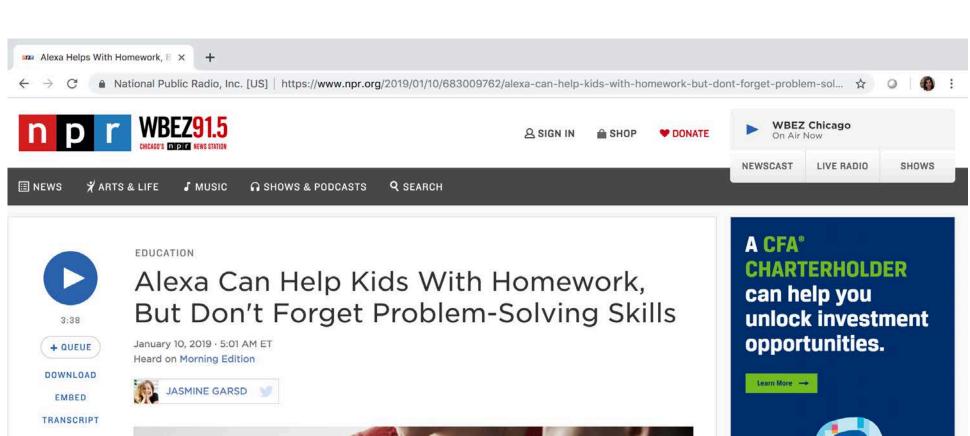


What have umbilical cord blood stem cells done so far? What will the results be in the future?











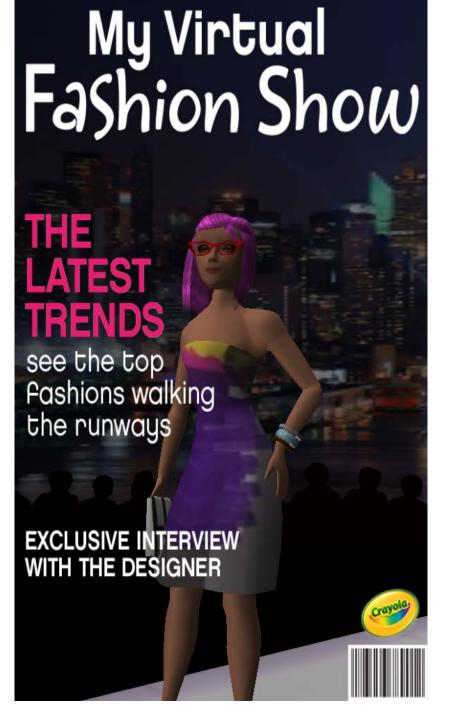
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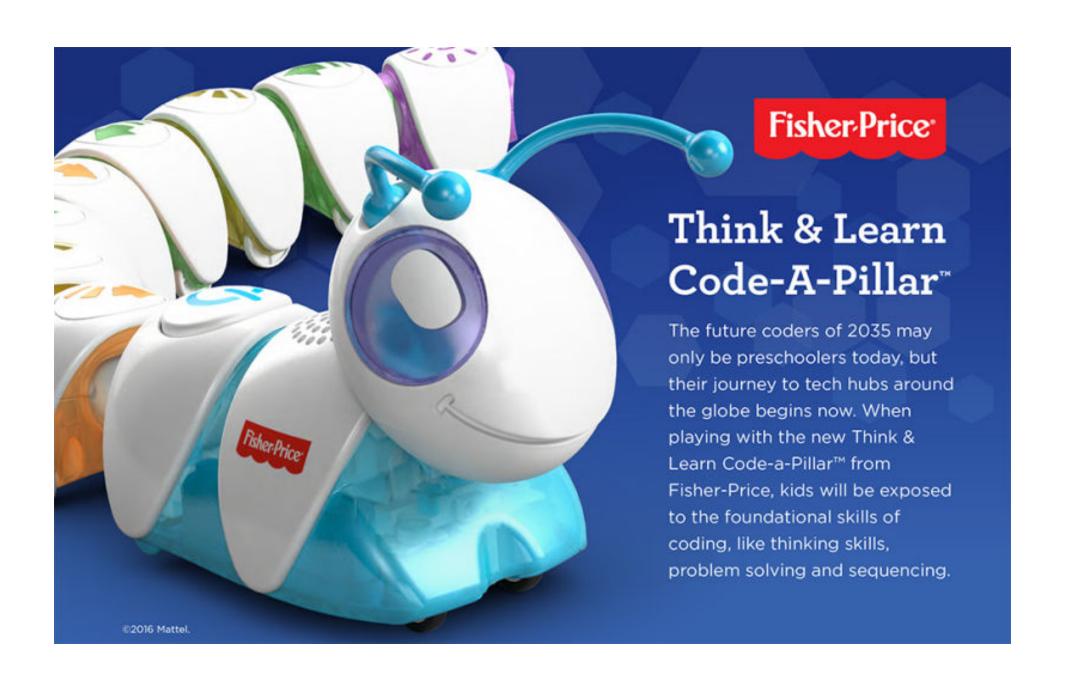
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V









Homo sapiens digitalis

Immer mehr mobile Zusatzgeräte stellen den Menschen in den Mittelpunkt des digitalisierten Alltags.

Kopfhörer

Mit dem Smartphone vernetzte Kopfhörer gibt es in allen Formen und Farben: Sie passen unter anderem die Lautstärke an die Umgebung an.



Via Bluetooth mit dem Mobiltelefon verbunden, ermöglicht es problemlos händefreies Telefonieren.

Smartwatch

An das Internet gekoppelt, kann der Nutzer die Uhr an individuelle Bedürfnisse anpassen und Aktuelles wie E-Mails anzeigen lassen.

Schrittzähler für die Schuhe

Intelligente Schrittzähler können zum Beispiel den individuellen Bewegungsbedarf berechnen.



Helm-Kamera

Eine Helm-Kamera ist ein Must-have für Adrenalin-Junkies: Sie hält zum Beispiel spektakuläre Sprünge und Geschwindigkeiten in Videos fest.

Daten-Brille

Die
Daten-Brille
führt dem
Nutzer wichtige
Alltagsinfos wie
Wettervorhersage, aktuelle
Kartendienste, Fotos und
Videos direkt vor Augen.

Sport-Brustgurt

Sensoren messen die Herzfrequenz: der ideale Begleiter für sämtliche sportliche Aktivitäten.

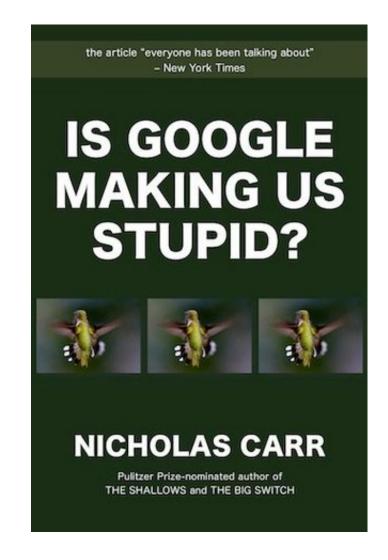
Fitness-Armband

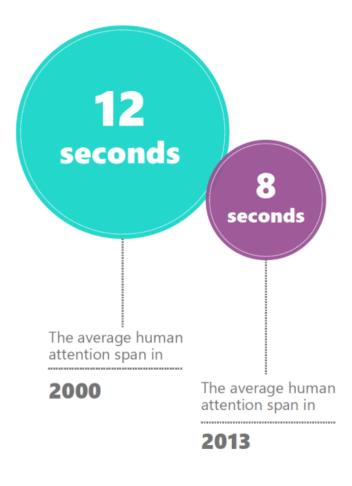
Sanftes Wecken, Puls- und Schrittmesser: Fitness-Armbänder bieten neue Möglichkeiten im Bereich Gesundheit.

Funktionswäsche

Smarte Kleidung misst durch Sensoren unter anderem die Körpertemperatur und kann sich bei Bedarf erwärmen. "The arrival of Gutenberg's printing press, in the 15th century, set off another round of teeth gnashing.

The Italian humanist
Hieronimo Squarciafico
worried that the easy
availability of books
would lead to intellectual
laziness, making men
"less studious" and
weakening their minds."







span of a

aoldfish



Innovations in Medical Care Today

Future physicals may add gene tests

netic tests like 23andMe, by offering their own tests and follow-up care. NorthShore is one of at least a few health systems in the country offering genetic testing in primary care, even as concerns remain about how useful the information may be and whether it could lead to unnecessary care and costs.

Patients won't have to pay for the genome sequencing, which will be offered as part of a pilot project with genetic testing company Color. If the pilot is successful. NorthShore could offer the tests to more patients, although it's uncertain whether consumers beyond the first 10,000 would bear any costs.

Other local health systems already offer narrower genetic testing to patients with certain conditions, such as cancer. But the practice of offering broad testing as part of routine primary care is still relatively new. And while many tests marketed directly to consumers look at a number of genetic variants, the test NorthShore will use sequences a person's whole genome, or complete set of DNA.

"I think this is something that is just becoming the new way to do medicine,"



Rebecca Marsalli, of Zion, shown with her infant son, learned through genetic testing she is at a higher risk for breast cancer. She'll be tested regularly

ally, about 2 percent of in medicine. said Casey Frankenberger, patients tested have genetic arch informatics variations that put them at

"If we can identify risk factors, then we need to

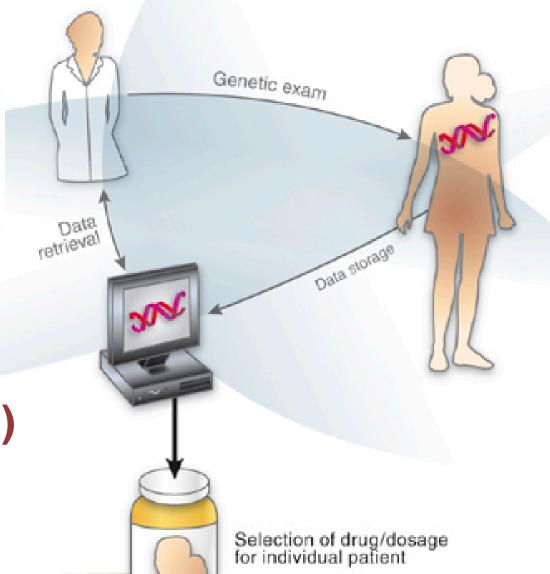
mother had breast cancer twice. But as a new mom, adal of ton of her to-do list. Having versity HealthSystem's aren't any cures, such

Dr. Peter Hulick, medical at higher risk of develo director of NorthShore Uni-

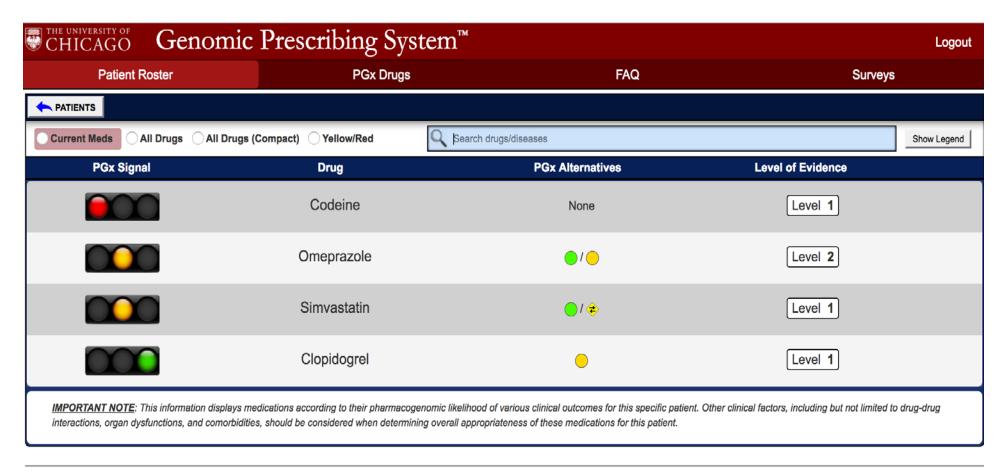
program will examine, said tests that tell them if the conditions for which



"Genomic Prescribing System" (GPS)



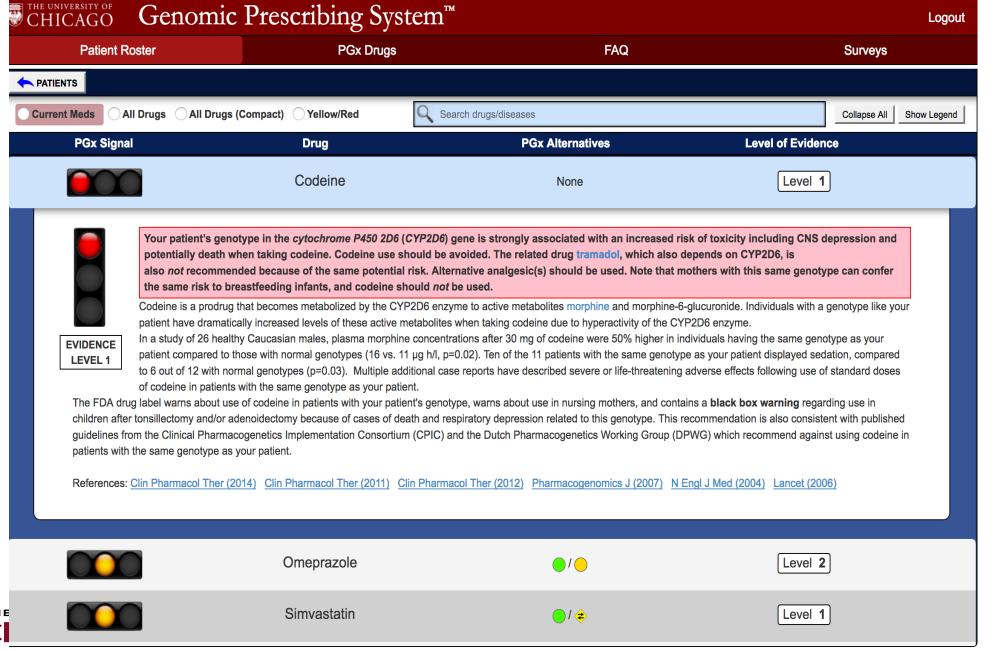




© 2012-2017. Developed by the Center for Personalized Therapeutics and the Center for Research Informatics.

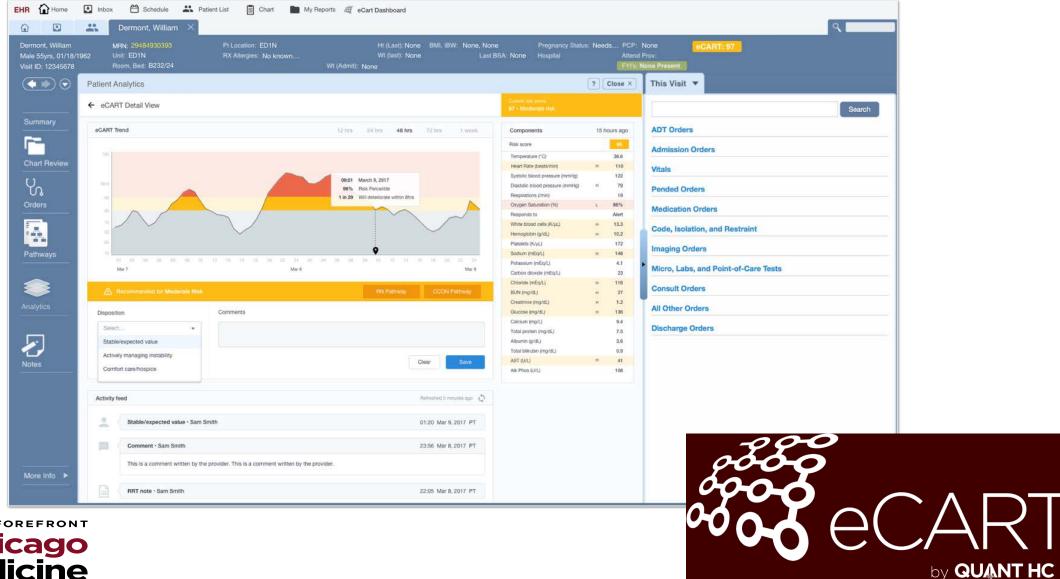






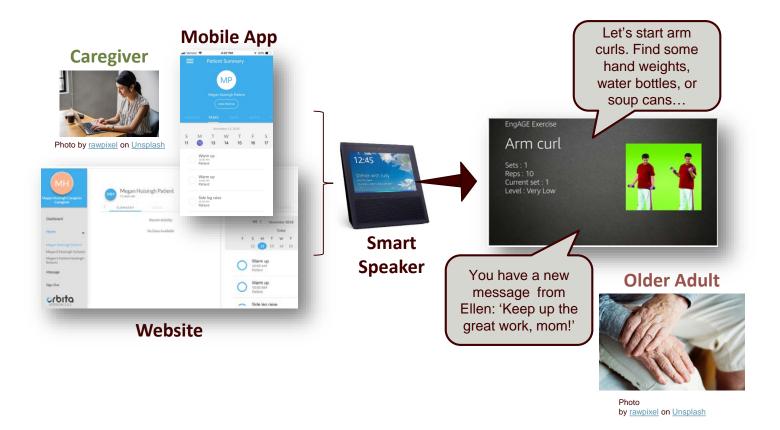


Al to Warn Clinical Team about a Patient Risk





Post-Discharge Physical Therapy





Authors: Huisingh-Scheetz M & Hawkley L; Programmers: Orbita, Inc.

Healthcare Teams Today









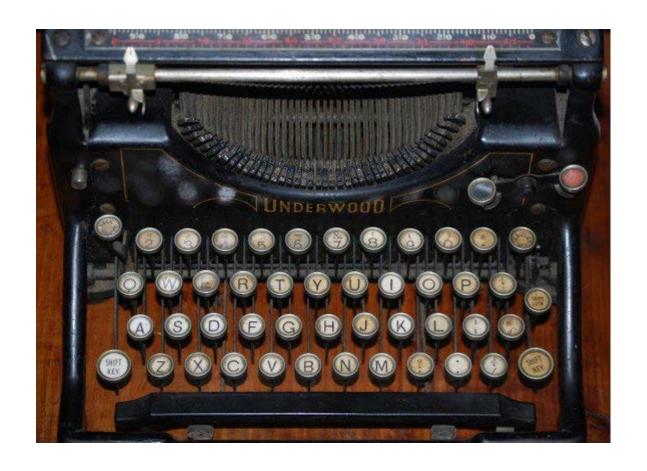
Medical Training Now

Current State of Medical Training

- Apprenticeship model
- Uniform timeline
- Standardized testing
- Service vs. learning
- Duty hours debates



Are we stuck with a QWERTY keyboard?



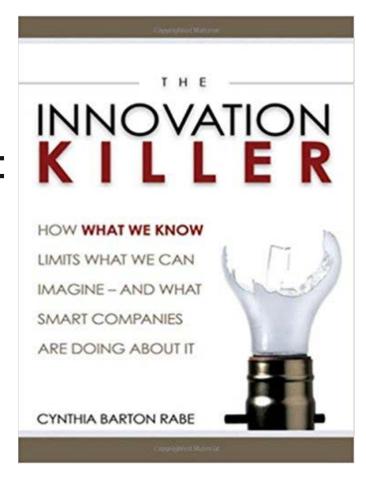




How Do We Innovate?

What kills innovation?

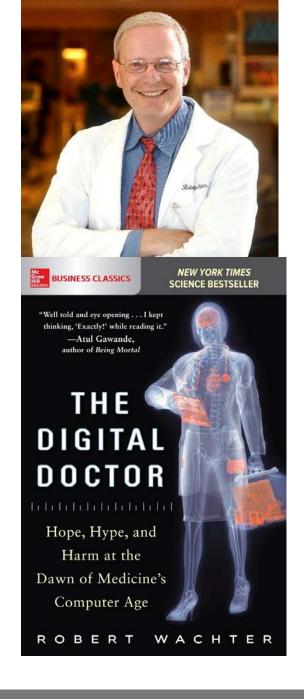
- Innovation is hampered by: Expertthink Grouptthink
- Surrounding yourself with like-minded individuals





Key to Innovation: Zero Gravity Thinkers

- Psychological distance: maintain an open mind.
- Diverse interests: a wide range of interests, experiences, and influences
- Expertise in intersectoral areas: strength in a relevant area may lead to "intersection points" at which solutions are often found

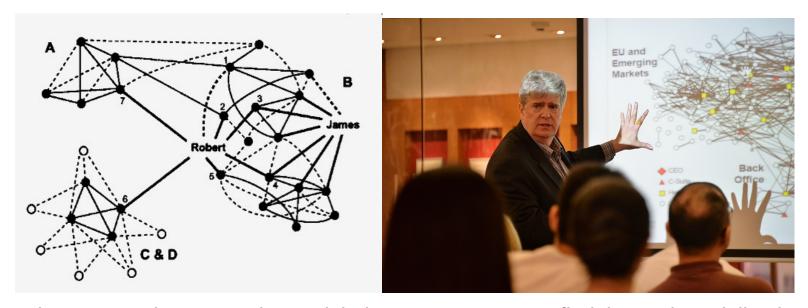




Role of Brokers in Innovation

Brokers

Member in multiple groups—powerful transmitter of information



People connected to groups beyond their own can expect to find themselves delivering valuable ideas, seeming to be gifted with creativity. This is not creativity born of genius, but as an import-export business. An idea mundane in one group can be valuable insight in another.





Diverse Types of Innovation

WELL DEFINED

PROBLEM DEFINITION

NOT WELL DEFINED

To choose the right method of innovation, first ask yourself: How well can I define the problem and the best place to solve it?

Primary Care
Delivery
Innovations

Personalized Medicine Initiatives

Breakthrough innovation

Skunk works Mavericks Open innovation/prizes

Sustaining innovation

R&D labs Outsourcing

Scribes

Basic research

Research grants Academic affiliations

Disruptive innovation

VC model Innovation labs 15%/20% rule Minute Clinic

NOT WELL DEFINED **DOMAIN DEFINITION**

WELL DEFINED

DOMAIN DEFINITION

SOURCE GREG SATELL

HBR.ORG





Marketing Innovation is Necessary

The 5Ms of Advertising Checklist for planning of a Marketing or Advertising campaign				
Mission	 What are the objectives? What is the key objective? 			
Money	 How much is it worth to reach my objectives? How much can be spent? 			
Message	 What message should be sent? Is the message clear and easily understood? 			
Media	 What media vehicles are available? What media vehicles should be used? 			
Measurement	 How should the results be measured? How should the results be evaluated and followed up? 			









Overcome the Status Quo

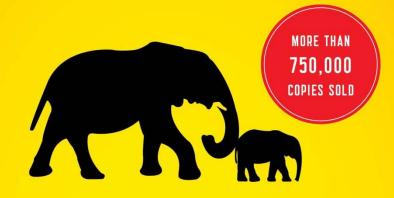
Status quo bias

an emotional preference for the current state of affairs

Any change from baseline is perceived as A LOSS

- "nudges" needed to promote better decisions about personal health
- Adapt nudges to clinician behavior





Nudge

Improving Decisions About

Health, Wealth, and Happiness

Richard H. Thaler and Cass R. Sunstein

Revised and Expanded Edition

"One of the few books I've read recently that fundamentally changes the way
I think about the world."—Steven D. Levitt, coauthor of *Freakonomics*





Aligning Innovation in Training & Care

Bridging Leaders as "Brokers"

VIEWPOINT

Merging the Health System and Education Silos to Better Educate Future Physicians

Reshma Gupta, MD,

VA Los Angeles Healthcare System, Los Angeles, California; and Department of Medicine, David Geffen School of Medicine, University of California-Los Angeles.

Vineet M. Arora, MD, MAPP

Department of Medicine, University of Chicago, Chicago, Illinois. The Affordable Care Act (ACA) is shifting physician reimbursement from volume to value. Academic medical centers (AMCs) are responsible for educating future physicians so that they will acquire the skills to practice valuebased care. However, the linkages between the leaders of health systems and leaders of residency education

may be tenuous, primarily because these leaders exist

in separate silos in AMCs.

Even though the American College of Physicians, Institute for Healthcare Improvement, Veteran Affairs Centers of Excellence, and others have created curricula to teach residents principles of value-based care and population health, the practice models that residents are immersed in result in powerful imprinting on future decision making and practice. If residents observe attending physicians frequently order unnecessary computed tomography scans due to perverse financial incentives, residents may be more likely to adopt this practice. Similarly, regional spending patterns in which physicians train are associated with their future spending patterns in practice. In this Viewpoint, we outline 3 steps AMCs can use to

However, the linkages between the leaders of health systems and leaders of residency education may be tenuous, primarily because these leaders exist in separate silos in AMCs.

accomplish their dual missions of delivering highquality care and preparing the next generation of physicians for new models of value-based care and population health

Supporting Leaders Who Bridge the Health Care Delivery and Education Silos

based care and population health by incorporating relative costs and quality of relevant therapeutic options, care coordination, and strategies to promote health of specific patient populations.

Bridging leaders can also take responsibility for ensuring that the clinical learning environment creates an "imprinting" of these principles. This is critical because many institutions are at the crossroads of adopting new models of care while receiving a high proportion of fee-for-service payments, which incentivize doing more rather than providing high-value care. Therefore, exposing residents to new alternative care models is important. Currently, the internal medicine and family medicine residency programs at the University of Washington, Virginia Mason, Swedish Medical Center, and Group Health are jointly developing an elective that integrates residents into high-performing practice teams to achieve high-value care outcomes; it will use population health innovations like health coaches, LEAN (Lean Education Academic Network), and alternative payment models.

Ideally, bridging leaders will not only have a working knowledge of the health system's goals but also can

> access institutional support in health information technology (IT) and quality to facilitate aligning resident practice with institutional goals. These leaders also can interface with the entire health care team, including nurses and other health professionals, so residents receive consistent messages and role modeling in interprofessional teams.

Academic medical centers can also invest in cultivating medical student and residency trainees who may ultimately fill these bridging leadership roles. The Dell Medical School at the University of Texas at Austin and Duke University residency programs have developed leadership and management education pathways for trainees to obtain extra skills in value-based medicine.

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Opinion paper

Achieving alignment in graduate medical education to train the next generation of healthcare professionals to improve healthcare delivery

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As healthcare delivery systems undergo widespread clinical transfornation, it is important that medical trainees, who will be our future healthcare workforce, are not left behind. Unfortunately, medical education programs are not producing physicians with the skills to work in the delivery systems of the future. ¹ A recent National Academy of Medicine report highlighted this problem and suggested a new system to allocate Medicare graduate medical education (GME) funding based on performance of GME programs. ¹

In addition, the Accreditation Council of Graduate Medical Education (ACGME) Clinical Learning Environment Review (CLER) program aims to spur "a coordinated and concerted effort by both the leadership of GME and the executive leadership and governance of US teaching hospitals" to ensure resident engagement in systems-based practice.²

With this growing imperative, a number of teaching hospitals are updating their programs and curricula to better align residency education and the improvement of healthcare delivery. Although some of this work is in response to external pressures, such as the CLER program, the true good of alignment is to mutually benefit the institution as well as trainees. This article will discuss recent innovations in graduate medical training that are specifically aimed at improving healthcare delivery in teaching hospitals through better alignment of their educational and clinical operations. The three key components to achieving this alignment are: (1) bridging educational and clinical operations. The three key components to achieving this alignment are: (1) bridging educational and clinical priorities; (2) developing curricula to support alignment; (3) and fostering residentled programs that lead to systems change (Fig. 1).

1. Aligning educational and clinical priorities

While critically formative education experiences for trainees are embedded within clinical environments, the leadership and priorities of the educational and clinical operations enterprises typically exist in distinct siloes. Currently, perceptions of alignment between health systems and GME are highly variable. Greater perceived alignment is associated with more institutional support and resources for engaging residents in improving care delivery in the health system, as well as decuational leaders who are more likely to report staying in their job.³

Recently, a number of medical schools and centers have tasked leaders with "bridging" GME and the health system to integrate edu cational and clinical missions.4 These bridging leaders have generally originated from the GME realm (titles include "GME Director of Quality and Safety" and "GME Director of CLER") and have subsequently taken on more clinical administrative duties, gaining a seat at the table for education in the C-suite. Ideally, bridging leaders are well versed in both quality and safety and the language of medical training so that they are positioned to promote better alignment and communication across an organization. Bridging leaders typically serve on institutional quality and safety committees and can facilitate translation of institutional priorities across the medical education enterprise through in corporation into orientation programs, creation of quality/safety curricula, direction of housestaff quality/safety council efforts, and even development of performance incentive plans targeted at residency trainees. 4.5 Through these types of bridging leaders, the organizational structure of the institution is transformed to support alignment by removing silos between education and medical center operations.

As clinical and educational leaders look for simple win-wins in aligning priorities, an obvious opportunity is to engage trainees in improvement work that fulfills operational objectives. 6-8 For example, a multispecialty housestaff-led initiative at the University of Washington sought to improve the use of the problem list in the electronic health record, helping the medical system fulfill meaningful use criteria, while simultaneously developing quality improvement leadership skills among involved resident physicians.6 Taking this a step further the University of California at San Francisco (UCSF) introduced a financial incentive program for residents and fellows that provides them with small monetary bonuses for achieving agreed upon resident-led quality metrics.5 While these metrics were proposed by residents, they were selected by hospital administration to align with operational priorities. Over the first six years of this program, more than 70% of resident projects were successful in meeting their pre-determined goals. These programs illustrate how alignment is ideally about making the residents more visible to the institution in a value-added way, as well as giving residents a window into how the hospital works

https://doi.org/10.1016/j.hjdsi.2018.04.0



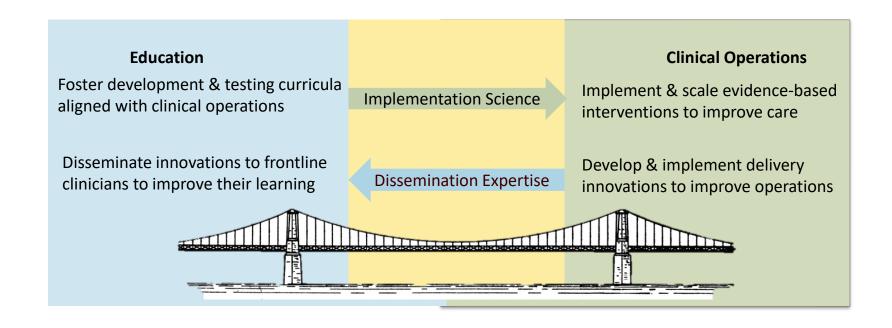




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Bridging Leader to Broker Innovations Between Education & Clinical Enterprise





Engaging Zero Gravity Thinkers



ABOUT

RESEARCH

PROGRAMS

TRAINING

EVENTS

NEWS

RESOURCES



An initiative of the ABIM Foundation

Part 1: Choosing Wisely Idea Incubator

Deadline: Monday January 30, 2017 at noon

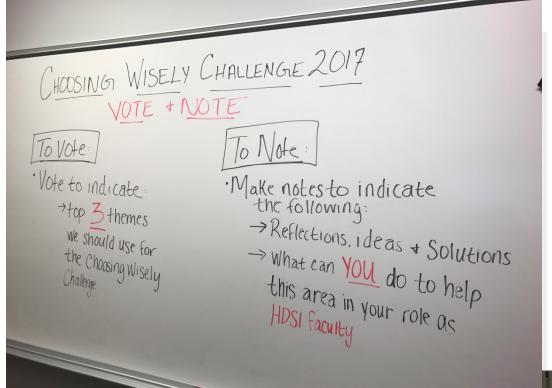
Instructions

- 1. Students, residents, fellows, and staff are asked to submit a description of a low value problem occurring at UCM in *20 words or less*.
 - Multiple submissions by the same individual are permissible.
- 2. The top five problems will be selected by the Center for Healthcare Delivery Science & Innovation faculty for the *themes* for the 2017 Choose Wisely Challenge.

Idea Incubator Form









University of Chicago Medicine **Annual Operating Plan FY2017**

AT THE FOREFRONT OF MEDICINE

Our mission is to provide superior health care in a compassionate manner, ever On a foundation of mutual respect, we will work together to build the mindful of each patient's clignly and individually. To accomplian our mission, we call upon the skills and expertise of all who work together to advance medical. Whereast of the country as measured by the quality of patient care, the innovation, serve the health needs of the community, and further the knowledge of satisfaction of patients and their families, and the level of pride among

Participation: A spirit of teamwork and sharing

Respect: A consideration and appreciation for other Integrity: Honesty in our words and actions Diversity: Honoring the power of different backgrounds and perspective

PEOPLE	PATIENT EXPERIENCE	QUALITY AND SAFETY	FINANCE	LONG-TERM POSITIONING
		PURPOSE		
Attract and develop an engaged workforce, recognized for their contributions locally, regionally, and nationally	Improve the experience of patients and families and enhance patient engagement with our care delivery system	Achieve national leadership for excellence in patient quality and safety	Generate earnings and cash flow to sustain growth and fulfill our mission	Execute strategic initiatives to achieve market leadership
		TARGETED OUTCOMES		
- Attord taken freeded in delivering the optimal patient experience. - Build a culturally and legislativally competer organization. - Delivering people to advance careers and create organizational bench strength. - Empire employees and providers in continually increasing our sock environment and vorit-de balance.	Enhance he patient family experience to accord expectation; improve stillation and increase organization and increase organization. Meaning fully engage patients and families to enhance 2010 alone of devery and its previous 2010 alone of devery and its previous families or extractive. Opticities performance on eleminal patient experience measures requires and capacity by enhancing patient flow and minerating avoidable visible.	Prevent harm, including healthcore associated reflection, through entailed and innovative processes and langeled EVR enhancements Ensure safe chilevey of medication and inscriptions of control of the control	 Eyand our engagement and proformation in mid-based reinbursement controls: Develop and execute payor contract strategy for affiliated and employed physicians to support the growth mad development of the Claim Nelsons. Activity Seethy and applement conditioning measures to make the end proposed generating measures to make the end proposed generating measures. Optimizing pharmocontrada satisfaction and generating measures. 	- Grow printibed disical service lines and programs - Improve access and enhance reliening-physician and partner-hospital releasements of the control of th
		KEY METRICS		
Employee Engagement Indicator Score Worlddorce turn-over in critical roles Diversity and Inclusion Index Score	"Overall Rating of Care" score in Patient Satisfaction Survey Call Center Performance metrics 3rd Next Available Appointment	Priority Metric Scorecard Ambulatory Quality & Safety Scorecard	EBIDA tracking Salary and benefits as a % of net patient service revenue Pharmacy utilization Specially pharmacy revenue	Volume and revenue growth, including service line growth Physician network growth

OUR FOUNDATION: E3 LEADERSH

Choosing Wisely*

An initiative of the ABIM Foundation





Provide Framework for Sustaining Practice Innovations in Value

Interventions		Description	Skip the Drips	
С	Culture	Valuing cost-consciousness and resource stewardship at the individual and team level	Subspecialty faculty champions recruited to email peers	
0	Oversight	Requiring accountability for cost-conscious decision-making at a peer and organizational level	Pharmacy receives a monthly audit of PPI drips ordered and why	
S	Systems Change	Creating systems to make cost-conscious decisions using institutional policy, decision-support tools, and clinical guidelines	Epic now requires indications for PPI drips when ordering	
т	Training	Providing knowledge & skills clinicians need to make cost-conscious decisions	"Brochures" on Skip the Drips shared in workrooms & at morning report	





Market with Right Message & Messenger

Choosing Wisely Challenge SKIP THE DRIPS

Improve meaningful use of continuous infusions to improve value of care

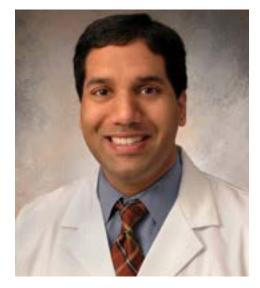
PPI FOR UPPER GI BLEED

Goals

- ✓ Improve survival from life threatening GI bleed
- ✓ Avoid complications such as C diff
- ✓ Improve likelihood of successful endoscopy

Recommend

- ✓ Pre-endoscopy: reserve PPI drip for suspected high risk upper GI bleeds.
- ✓ Post-endoscopy:
- All PPIs should be discontinued unless endoscopy identifies ulcers or erosions
- Continuous IV PPI can be used for ulcers with high-risk lesions



Dr. Gautham Reddy, GI Fellowship Program Director

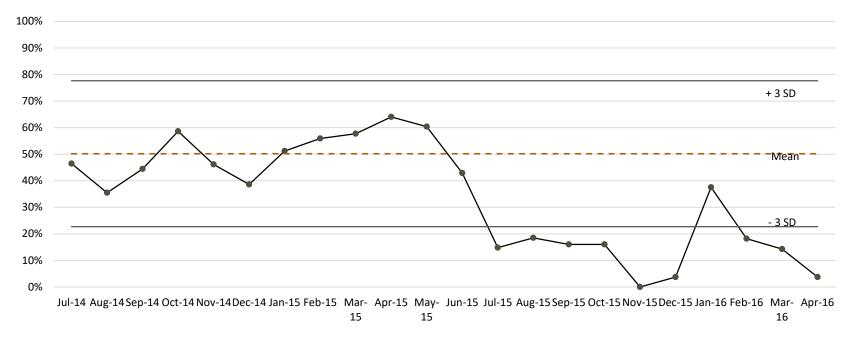


Special thanks to UCM Office of Clinical Effectiveness, led by Michael Howell, MD.

Skip the Drips: Inappropriate PPI Orders



Nikhil Bassi



Statistical process control chart using standard UCL (LCL/UCL is defined by +/- 3 standard deviation)





Patient List Indicators for Tele /Foley



Charlie Wray



Figure 1. Electronic indicator on patient list screen within Epic® Electronic Health Record. Check marks indicate active telemetry and urinary catheter orders.



Usage of Telemetry & Foley with FLIP

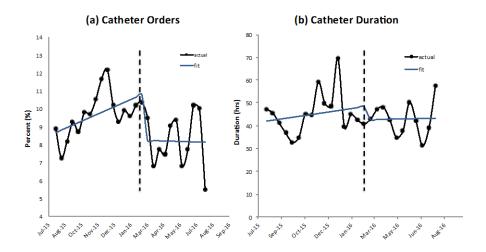


Figure 2. Trend in urinary catheters ordered and duration of use; March 2015 – August 2016. Vertical line indicates implementation of initiative.

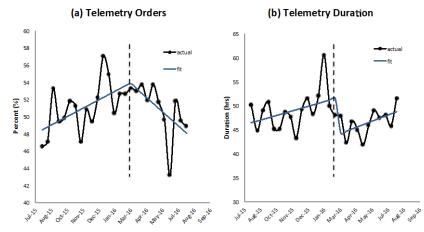
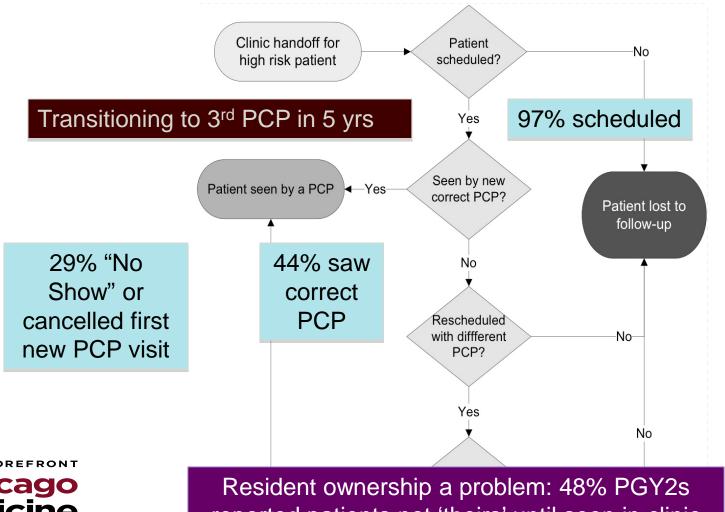


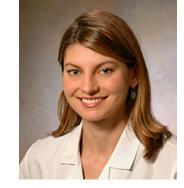
Figure 3. Trend in telemetry orders and duration of use; March 2015 – August 2016. Vertical line indicates implementation of initiative.

THE AMERICAN JOURNAL of MEDICINE®



Studying PCP Handoffs in Resident Clinic





Amber Pincavage

By 3 months, 26% of ALL patients had ED visit or hospital stay

By 6 months, 19% lost to follow-up

reported patients not 'theirs' until seen in clinic

Innovations Emerged from Patients

- Notify and prepare patients for the handoff
- Telephone visits with the new physician
- Give guidance to residents how to assume care
- Recognize patients for their role as valued educators of trainees
- Importance of personal sharing
- Empower patients during the handoff







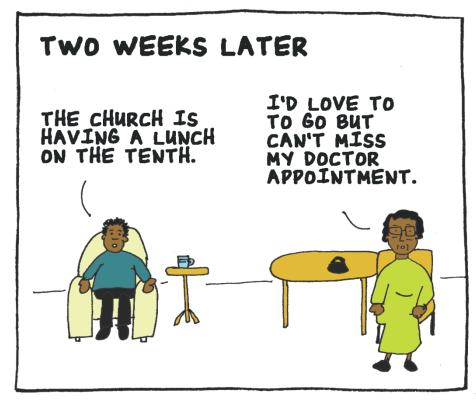




Improve Recall of Packet

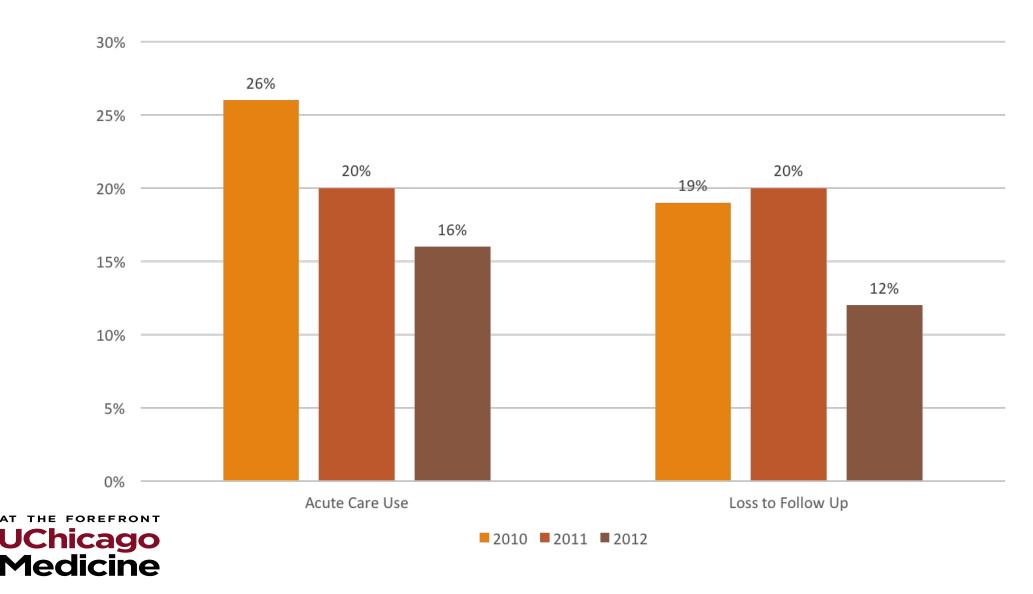








Rates Acute Care & Loss to Follow Up



Primary Drivers

Create a shared

and GME strategy.



Accreditation Council for Graduate Medical Education

infrastructure that aligns the organization's strategic priorities

Section of the control of the contro



Clinical Learning
Environment Review Program

Pursuing
Excellence
in Clinical Learning
Environments

Leaders at Resident Forum, Resident Advisory Committee, GMEC

AIM

-4- |--

Integrate health care delivery system operations and graduate medical education (GME), such that the clinical learning environment enables measurable improvement in both learner experience and

patient care.

Establish the processes and practices that fully integrate CLE staff and learners into the pursuit of quality, safety, equity and value in the organization.

Create qualified, engaged and motivated faculty capable of teaching quality and safety to residents.



Center for Healthcare Delivery Science and Innovation



An initiative of the ABIM Foundation



Interdepartmental QI/Safety Curriculum







Maximize shared learning with coordinated educational resources across health professions.









IGNITE



Improving GME-Nursing Interprofessional Team Experiences

Program Aim: to engage residents, nurses, & other staff in institutional performance improvement through approaches at two levels:



Unit-level: unit-based teams, composed of Resident-Nurse champions, who work to identify & implement practice changes that improve both care & learning



Institution-level: institutional performance improvement "mini Kaizen" events to engage residents & staff on improving issues for which they are stakeholders & process owners.





-Interprofessional collaboration is associated with:—



Reduced medication errors



Improved patient and nurse satisfaction



Decreased inpatient mortality



Shorter length of stay

Patients not always localized



Absence of a nursing school —





What does this look like?

Cohort '

IGNITE Internal Medicine



Project aim: Improve efficiency of multidisciplinary rounds via structured reporting tool Metric: resident report time

IGNITE Kaizen - Peripheral IV Placement



Project aim: Improve policy/procedures for inpatient peripheral IV placement **Metric:** fewer patients with more than 3 sticks

Metric: on-call pages at night

IGNITE Neurology



Project aim: Improve MD/RN communication via including RN on morning bedside rounding Metric: % nurses attend rounds

IGNITE Pediatrics



Project aim: Improve the % of patients who understand their discharge teaching early in the morning of day of discharge Metric: teachbacks failed

IGNITE Kaizen - Transportation Delays



Project aim: improve processes to reduce patient transportation delays

Metric: reduce in-hospital transport delays for testing and procedures

IGNITE Ob\gyne



Project aim: Improve % low-risk patients discharged before noon via enhanced MD/RN communication after attending rounds Metric: Discharge before noon



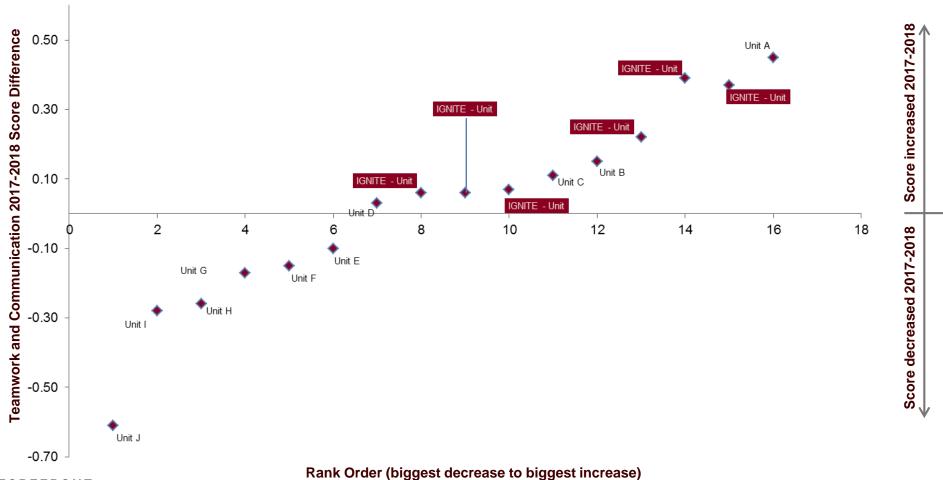
Project aim: Improving discharge communication to patients via standard EHRbased discharge template

Metric: Pages regarding discharge instructions





Teamwork and Communication 2017-2018 YoY Score Difference





Includes Adult Inpatient units only

IGNITE Participant

Conclusions

- Innovation is urgently needed to ensure education is aligned with the advancements in clinical care we need to deliver in the future
- Bridging leadership is one way to close this gap
- Health system innovations can and should result in improved training







Build legacy by investing in people

Multipliers are leaders who:

- Nurture & attract talent
- Amplify capabilities of those around them
- Invest in people
- Get twice as much from people

