e-Health Governance:

Measuring the Impact of an Innovative Technology Solution on Culture and Performance at Southlake Regional Health Centre cops lock

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Dr. Anne W. Snowdon, Ivey International Centre for Health Innovation June 3rd, 2015

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Health System Challenges

Information is siloed and organization specific

Health System Challenges

Getting information off the Internet is like taking a drink from a fire hydrant.

Mitchell Kapor

The information that is now available to the health system is undoubtedly having a profound impact on our system but it also is creating a significant challenge.

E.g. MRIs, CT's, Genomes etc.

Health System Challenges

The same consumers that use the health system are online, yet health organizations are not connected to the consumer world

E.g. Fitbit, MapMyRun, Weight Watchers

Our society increasingly relies on transparent, real time information at a glance, from everywhere...

1.E.C.

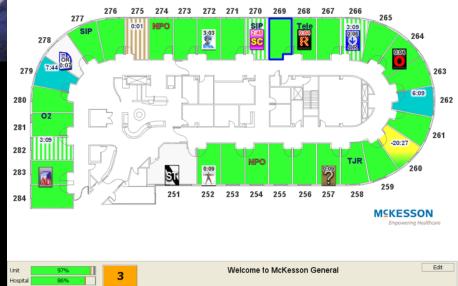
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...what does this look like in healthcare?





Purpose:

* Examine impact of MPV technology on leadership, culture, patient flow and hospital performance

Methods:

- * qualitative interviews
- * staff surveys (time series)
- * hospital performance indicators

Culture Shift: Overcoming Organizational Silo's

"...Currently, we're very siloed, not everybody does know other than the bed allocation office and certain managers and administrators that might have a particular view of our bed board, they see all because they're sitting at their desk with the whole hospital in front of them so they know what's empty, what's clean, who's going home, so they have that information in front of them, but they don't know what's really going on the floor..."

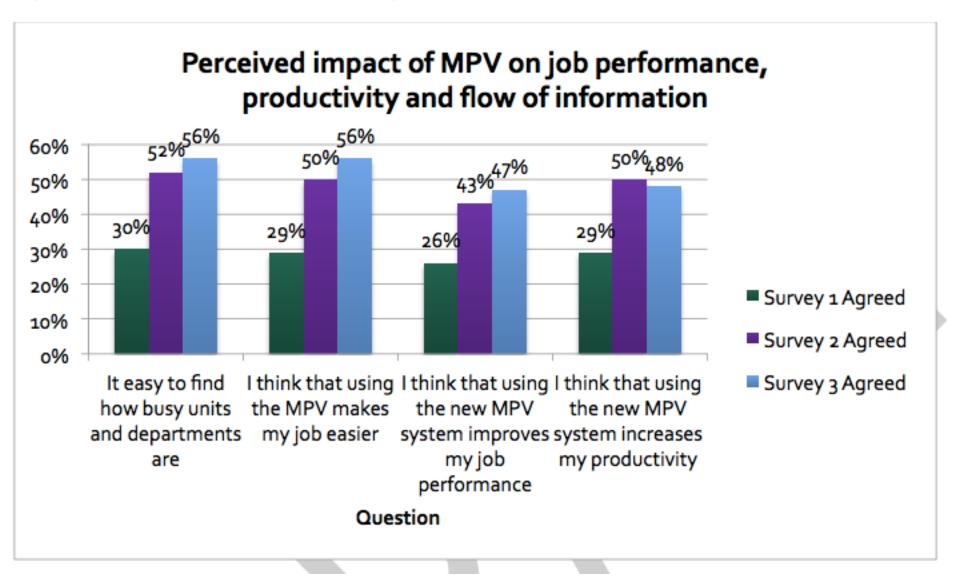
Importance of Transparency: Basis for the Decision to adopt Technology

"Not that they're hiding, because they can't really hide them, once

they're discharged in the system, they'll definitely delay giving report. There's a lot of phone calls that are made where people will say no, the bed isn't clean when it actually is, there's a lot of the in between and I guess people don't know who to believe, so when they do call the unit and say is this bed ready, can we transfer this patient, the nurse will say no the bed's not cleaned yet, even though it is..." **Hospital Performance Results:**

- Increased Capacity (Reduced waiting in ED) (1.46 hours (2011/2012)- 1.28 hours (2012/2013- 1.42 hours (2013/ 2014))
- Decreased LOS (Mental Health, Medicine & Cardiology) (-50% in length of stay correlation with implementation of MPV)
- Decline in Patient Falls (there is a significant reduction in patient falls after MPV implementation, however there was a downward trend before implementation)
- Increase (+25%) in number of patients with discharge plans within 48 hours of anticipated discharge

Figure 18- Perceived impact of MPV on job performance, productivity and flow of information



Decreased wait times in ER

Increased bed capacity (from 56 to 61 patients/day) Reduced LOS by 50%: mental health, cardiology Reduced ED wait time

"MPV system helps create a fair workload across departments" Survey responses went from 27% to 56%

Emergence of a "team culture" focused on achieving quality

"...We have worked really hard at changing our culture to one of a transparent culture rather than siloed based and so where I would suggest previously we cared less about what was happening corporately, now there is both a yes we need to know what's happening in our unit or in medicine, but we also need to know what is happening across the spectrum relative to patient flow"

Streamlined, Efficient Communication: "You know everything you need to know in "Real Time"



Importance of Technology: "transforms care at the bedside"

"I could give not much care for technology for the sake of technology or the cool or the wow factor, it doesn't impress me. What I like is when it truly transforms care at the bedside. It makes a difference for patients, for staff, for care providers, for safety, for quality, that's when I get energized about technology, not just to say, get the latest gizmo or gadget or whatever."

"So everyone can see that the beds are clean, there can't be any excuses any more as to why they're not moving these patients"

Vision for Transforming: tracking and pinpoint where improvement is needed

"I think there will be a lot of reports coming out of that system. So if the nurse is putting into the system that the patient had an order to be discharged then you can track how long it took to clean the bed, or if we said the bed has to be cleaned within 2 hours or discharge or 1 hour, you will be able to measure all of this because everything will be time stamped and you should be able to pinpoint where the improvement needs to occur."

Shifting Accountability: Leadership that "levels the playing field"



Access to information levels the playing field; shifting from a top down approach to a model of lateral collaboration



International Centre for Health Innovation

Access to information must be democratized, not only within provider teams, but also including the patient to improve our health system

Thank you. asnowdon@ivey.ca

Restaurant Table Management Systems

Canada's Future Health System

BUSINESS OPEN ASNORMAL

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1) TRANSPARENCY

"There's no reason why everybody shouldn't be able to see everybody else" "FedEx InSight® provides real-time status...a level of service to our customers that we were previously unable to provide." -Greg Sharkey

Not just an app... Your entire restaurant experience. -Nextable®

Shimoni

Culture Shift

Decreased patient falls
Reduced length of stays

- Cost savings
- Innovation culture

Safety Culture: Aviation vs. Medicine

Quality Culture: Automotive Industry vs. Health Care



What does everyone value...

Quality of care



Gold Standard of Innovation Adoption