The Learning Health System (LHS) and Nursing's Role/Responsibility PRESENTED BY DIANNA DODD, DNP, RN, RN-BC, CCM ANIA HEART OF AMERICA 3RD ANNUAL SYMPOSIUM MAY 18, 2018

"ANIA
where caring and technology meet
"Finding the Heart in Informatics"

Disclosure

- Presentation today reflects my Doctor Of Nursing Practice (DNP) Capstone Project, 2016; and ongoing activity.
- I am not representing Cerner Corporation during this presentation nor during the symposium

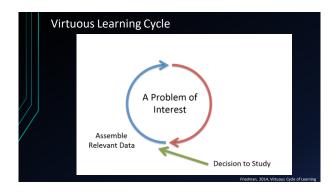


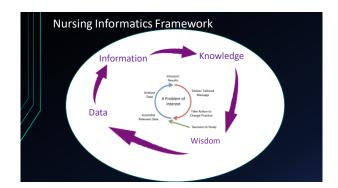
Health and Healthcare Report Card									
	Α	В	С	D	F				
Healthcare Spending					Х				
Healthcare Waste					Χ				
Needless Harm/Neglect/Death (Hospitalized)					Χ				
Research Participation					Χ				
Research Multiple Variables					Χ				
Evidence Generation to Implementation					Χ				
Human Cognitive Abilities - Data Volume				Χ					
Public's View of Nurses/Nursing (favorable)	Х								

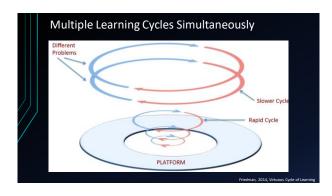


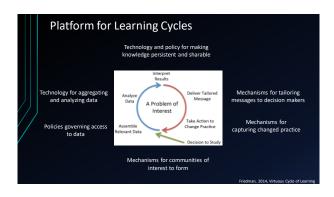
	LHS Core Values
	Person-Focused: The LHS will protect and improve the health of individuals by informing choices about health and healthcare. Privacy: The LHS will protect the privacy, confidentiality, and security of all data to enable responsible sharing of data, information, and knowledge, as well as to build trust among all stakeholders. Inclusiveness: Every individual and organization committed to improving the health of individuals, communities, and diverse populations, who
	abides by the governance of the LHS, is invited and encouraged to participate. Transparency : With a commitment to integrity, all aspects of LHS operations will be open and transparent to safeguard and deepen the trust of all stakeholders
	in the system, as well as to foster accountability. Accessibility : All should benefit from the public good derived from the LHS. Therefore, the LHS should be available and should deliver value to all, while encouraging and incentivizing broad
$//\Gamma$	and sustained participation. Adaptability: The LHS will be designed to enable iterative, rapid adaptation and incremental evolution to meet current and future needs of stakeholders. Governance: The LHS will have that
//	governance which is necessary to support its sustainable operation, to set required standards, to build and maintain trust
	on the part of all stakeholders, and to stimulate ongoing innovation. Cooperative and Participatory
	Leadership. The leadership of the LHS will be a multi-stakeholder collaboration across the public and private sectors including patients, consumers, caregivers, and families, in addition to other stakeholders. Diverse communities and populations will be represented. Bold leadership and strong user participation are essential keys to unlocking the
	potential of the LHS. Scientific Integrity : The LHS and its participants will share a commitment to the most rigorous application of science to ensure the validity and credibility of findings, and the open sharing and integration of
	new knowledge in a timely and responsible manner. Value : The LHS will support learning activities that can serve to optimize both the quality and affordability of healthcare.

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		ARRA	Hi-Tech		Onc – 2015 Strategic plan		NHITI		MU							
		Value-based payments			SNOMED-CT		LOINC		HL7		ernance ties					
///							APIs	Block	chain	AM	IIA	AM	IA	Nursing K Big Data Confe	Science	
		IEEE	Sensor: typ		wv	vw	lo	т	Social	Media						
		Decre Healt Reso	hcare	Appreci	eased ation for insight	Expec	umer tation nges	add yc her	our own							















Nursing Trends

- 2018 > Average age of a nurse is > 50 years of age
- By 2020, anticipated over 80,000 nurses will leave the workforce...every year
- $^{\circ}\,$ By 2025, anticipated nursing shortage of $^{\sim}$ 130,000
- By 2028-2030, anticipated over 1 million nurses of retirement age

Nursing Involvement

- Leadership involvement not really voluntary
- Expand thinking beyond "I'll be a leader in my own <group>" to "I'll be a formal leader in <area>"



Google I

Largest Group Providing Healthcare



Why Are You Needed?

Educational Purposes

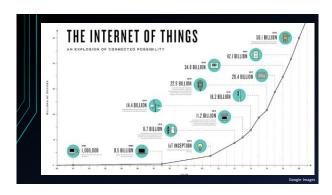
We don't have a lot of technology people in Congress, so one of the basic things is to help people be educated on how technology works: what's there, where is it headed, what some of the challenges and opportunities are.

Suzan DelBene

Why Are You Needed?

- Educational Purposes
- Technological Engagement Styles
- Digital Immigrants versus Digital Natives
- Digital Visitors and Digital Residents
- Changing Landscape of Healthcare Delivery
- "Social-ness" of the Digital World
- IoT

Wikipedia: The Internet of Things (IoT) is the network of physical objects or "things" embedded with electronics, software, sensors and connectivity to enable it to achieve greater value and service by exchanging data with the manufacturer, operator and/or other connected devices.

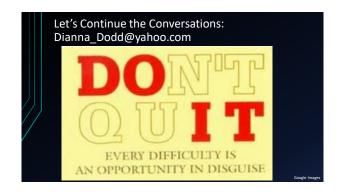




Data Handling • Analytics • Descriptive • Predictive • Prescriptive • Artificial Intelligence • Machine Learning • Neural Networks / Deep learning • Language Recognition







Find a problem where your passions intersect society's needs.

Matt Might

Find where your passions intersect the Learning Health System, and Lead!