



It's all about... OUTCOMES !

Safety Care Variation eMeasures Quality Service Medication Errors
Clinical Decision Support Antimicrobial Stewardship
Length of Stay Readmissions
Cost of Care Process Improvement
Consumer Engagement EHR Adoption
Data Warehousing Efficiency Mortality Value Realization Optimization
Informatics Excess Days Blood Utilization Analytics Patient Satisfaction

Passion into Practice: A Shared Journey Along the New Frontier of Healthcare Informatics

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Conflict of Interest Disclosure

Liz Johnson, MS, FAAN, FCHIME, FHIMSS, CHCIO, RN-BC
has no real or apparent
conflicts of interest to report.

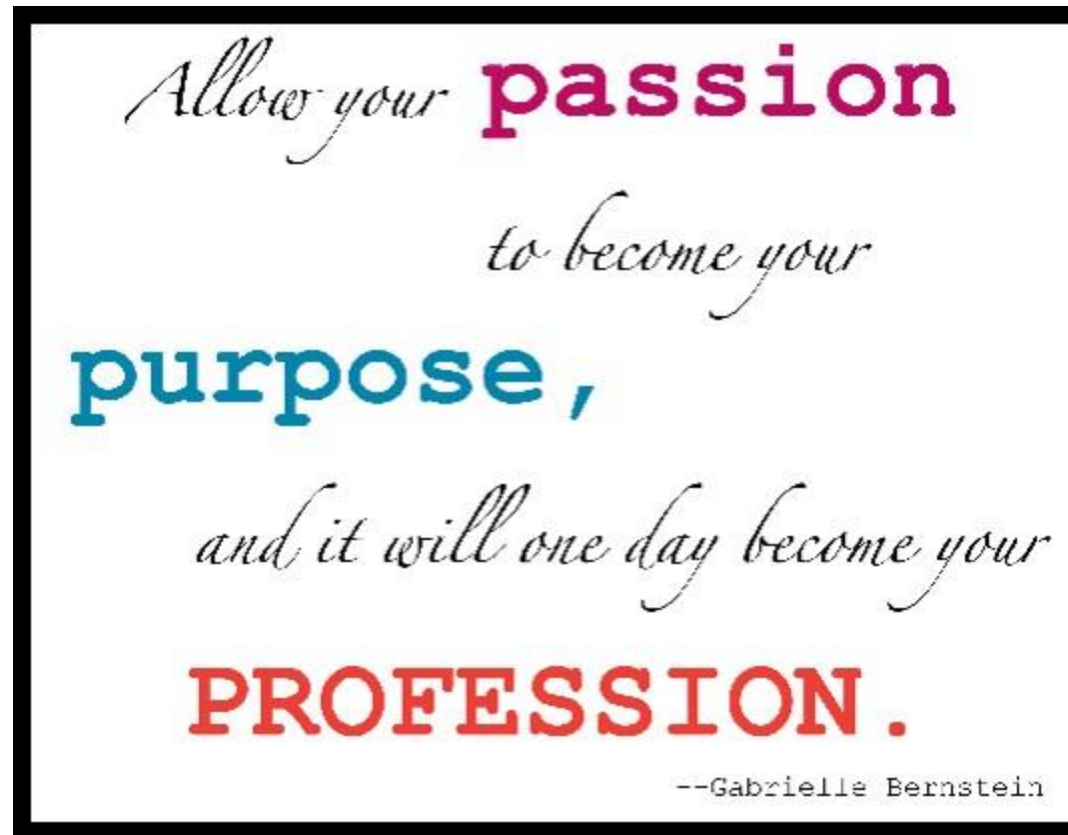


Session Objectives

- Experience a personal journey of passion into practice for a clinical informaticist. Understand why it is important to tune in to your own inspiration in order to connect with the passion you have for your work
- Discuss the importance of using informatics in real time to enable improved outcomes. Data becomes information, information becomes knowledge and knowledge becomes wisdom.
- Discuss the importance of being a nurse, an informaticist, a business leader and a good troublemaker
- Introduce thinking about the next steps in informatics beyond alerts and evidenced-based practice and what are the roadblocks that stand in the way of true practice-driven care
- Understand the importance of showing the power of informatics



How my passion became practice



▶ When passion became their practice....

"To go out there and prove what I can do has taught me a lot about who I am."



Simone Biles

"You must do the things you think you cannot do."



Eleanor Roosevelt



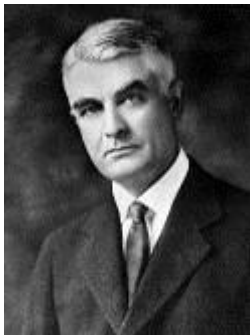
Oprah Winfrey

"Devote today to something so daring even you can't believe you're doing it."

"Change is the law of life. And those who look only to the past or present are certain to miss the future."



John F. Kennedy



"The glory of medicine is that it is constantly moving forward, that there is always more to learn. The ills of today do not cloud the horizon of tomorrow, but act as a spur to greater effort."

William James Mayo



► The night I decided to become a nurse – Age 10

I am going to make a difference..... I am going to organize the chaos and help to save lives



► And then I did this....



*I was a new nurse,
baby was in trouble,
mom put her trust in me*



And so began my journey with Informatics

I learned early on that.....

- ❖ Patients needs are multi-dimensional
- ❖ Critical decisions require real-time information
- ❖ Certain protocols are more effective than others
- ❖ Technology is slow in helping to fast-track effective treatments

..... And I learned that I am very impatient when it comes to figuring out better ways to help patients





My hunger for Data to be Better, Faster, Actionable



Nursing School Grad 1978

I am a nurse with a strong voice who has evolved into a business leader, convincing other business leaders how informatics multiplies the value of our presence at the bedside



IMPACT Launch 2010



49 Hospitals Completed. We Did It! 2015



► I refused to live inside rules that did not make sense



I became the best troublemaker I could be.



➤ So, as a troublemaking clinician, I used my passion to help make information useful.....



...to create systems that do the work we need done



Excess Days Mortality It's all about... Blood Utilization EHR Adoption Length of Stay Informatics Readmissions Safety
Process Improvement Antimicrobial Stewardship Cost of Care Quality OUTCOMES! Data Warehousing Efficiency Core Variation aMeasures Analytics
Consumer Engagement Clinical Decision Support Value Realization Service Medication Errors



And my passion became practice



- Data has become information...
- Information has become knowledge...
- Knowledge has become wisdom...
- Wisdom – real time wisdom is saving patients' lives





Our ship has come in! The data has arrived.



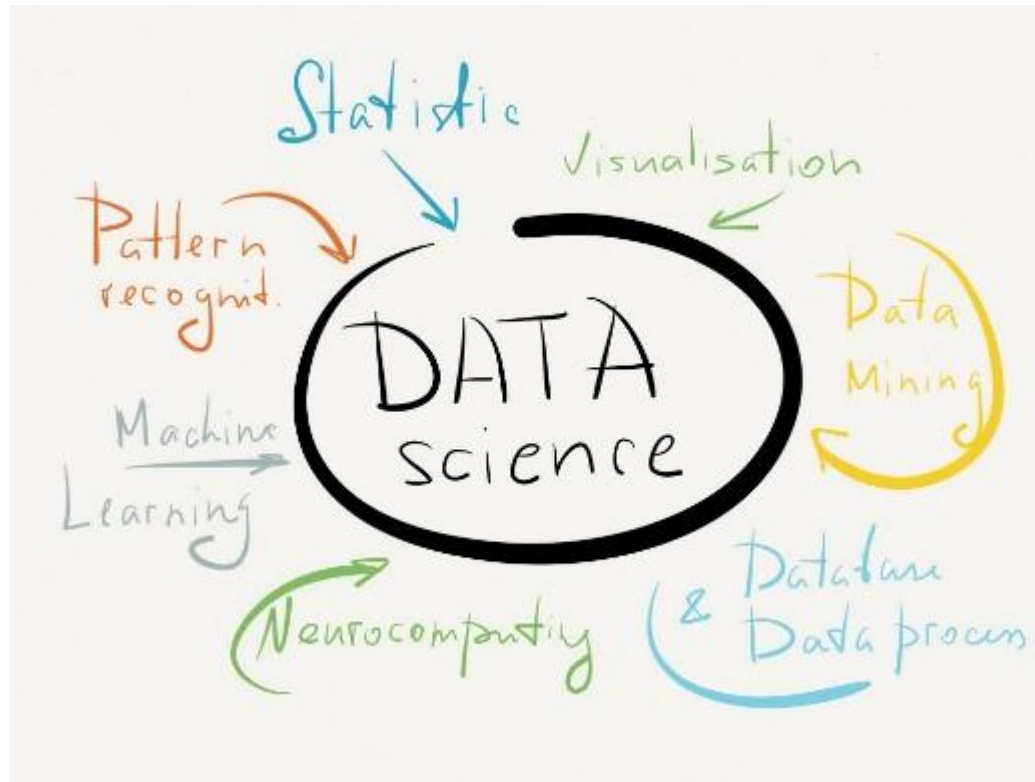
- We have to get moving beyond just evidence-based practice and use informatics to speed things up!
- Learn from the data to modify practice protocol much sooner!



It's all about... **OUTCOMES!**

Excess Days, Mortality, Blood Utilization, EHR Adoption, Length of Stay, Informatics, Readmissions, Safety, Analytics, Efficiency, Core Variation, eMeasures, Medication Errors, Service, Value Realization, Clinical Decision Support, Cost of Care, Quality, Consumer Engagement, Antimicrobial Stewardship, Process Improvement.

► Start to apply Data Science capabilities...



Imagine having data from millions of patients available to fast-track clinical improvements in REAL TIME



► Is this progress? Yes, but.....

1887



2017



*It took 130 years to get
from here to there*





We've gotten better, faster, smarter

"I believe that this nation should commit itself to achieving the goal, before this decade is out, of landing a man on the moon and returning him safely to Earth."

(JFK, 1961)

And in 8 years, we were on the moon.

If we can do that, we can do this.....



With Informatics.....

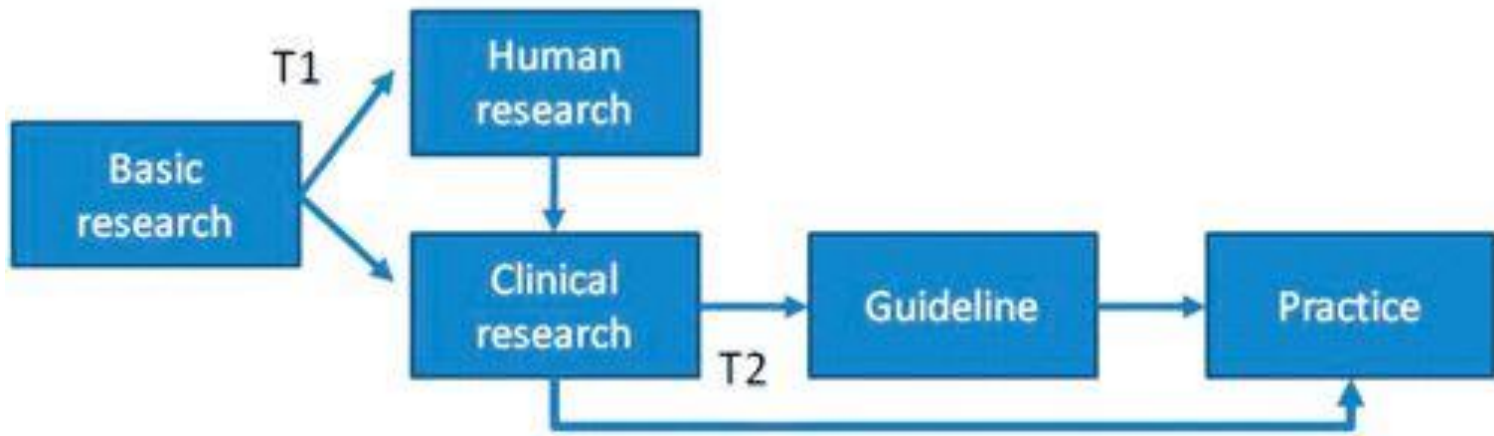
Within ____ years, we will:

- Eliminate ____ million defects in care
- Save ____ thousand lives
- Avoid \$____ millions in unnecessary expense





But we have a problem:
Research Bench to Bedside –
it takes how long????



17 Years

The answer is 17 years, what is the question: understanding time lags in translational research Zoë Slote Morris, Steven Wooding, Jonathan Grant (2011)
Journal of the Royal Society of Medicine, Vol 104, Issue 12



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► And with almost 4 million lives at stake in the next 13 years, we cannot wait that long

CANCER – 2nd leading cause of death in the United States



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An example of the informatics equivalent to walking on the moon: The real-time modification of practice today, not 17 years from now

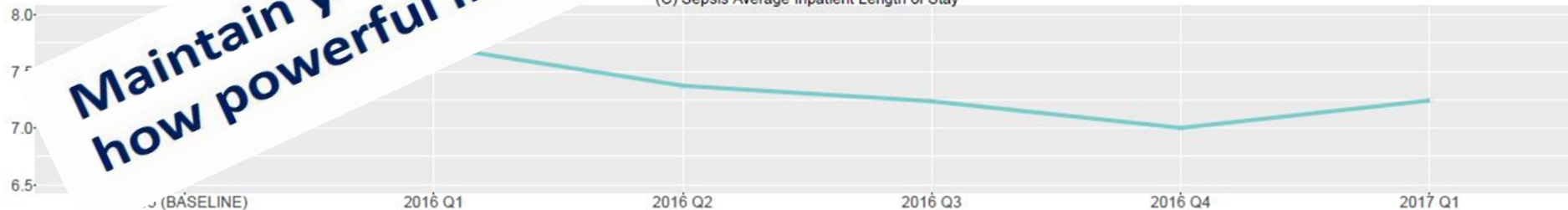
(A) Sepsis Order Set Utilization



(B) Sepsis Mortality



(C) Sepsis Average Inpatient Length of Stay

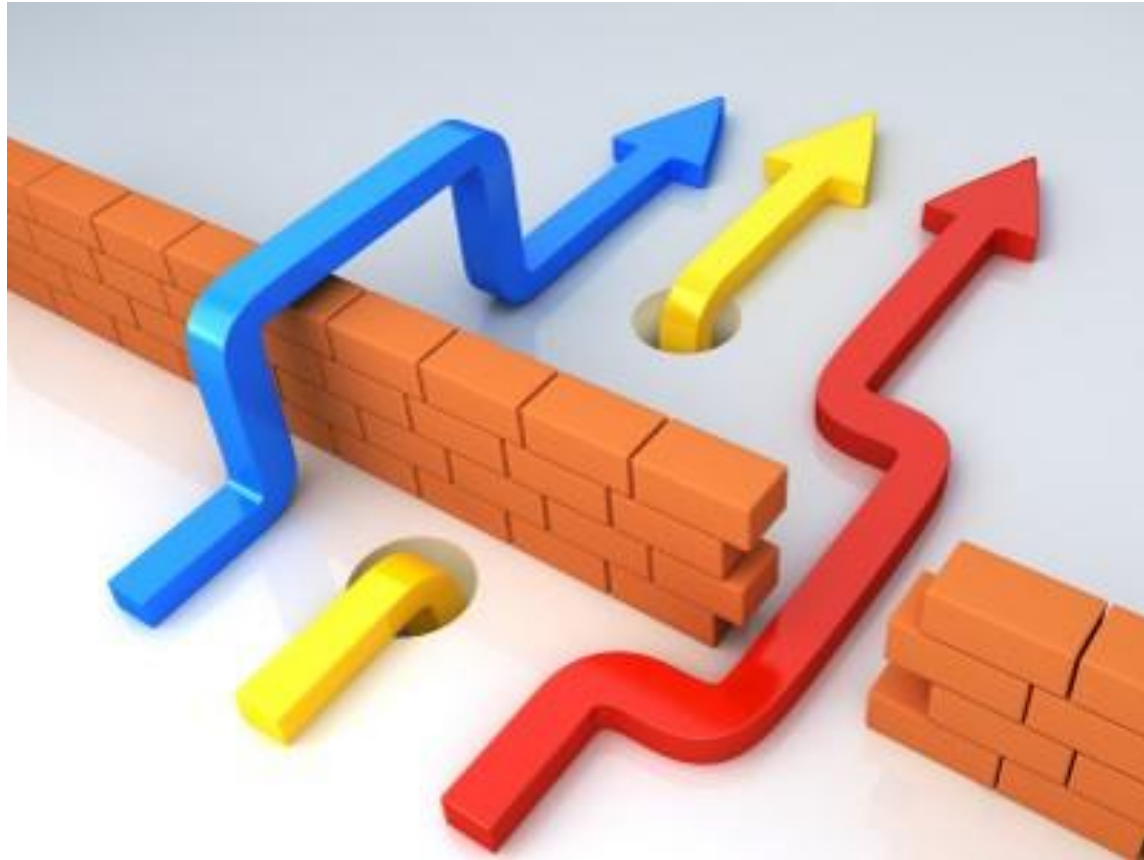


Maintain your passion – pick one thing, track it and show how powerful informatics can be





But there are barriers holding us back.





Working through the barriers to achieving practice-driven care through informatics:

Sharing what we know and how we know it.... we can be better at this!



SHARE YOUR KNOWLEDGE!

There are organizations and “troublemakers” out there who are doing great things with informatics.





Working through the barriers to achieving practice-driven care through informatics:

- A portal for every doctor, another portal for every hospital



Patients could have up to 8 portals and mailboxes – and we're “surprised” they don't make better use of them 😊





Working through the barriers to achieving practice-driven care through informatics:

- **Lack of true interoperability**

- No standard definition that defines the need
- No NPI
- No data standards
- No transmission standards



*Data that supports healthcare informatics should be a Garden of Eden
Instead, it's a Tower of Babel.*





Working through the barriers to achieving practice-driven care through informatics:

Which is it?

Data Standards

- ☐ Gurney
- ☐ Stretcher
- ☐ Transports
- ☐ Bed
- ☐ Cart
- ☐ Trolley
- ☐ Cot
- ☐ Litter
- ☐ Pram



Standardizing data sounds simple, but it's not.





Working through the barriers to achieving practice-driven care through informatics:

Unique Patient Identifier



In our lifetime? I say YES!!





Surmounting these barriers will lead us to the Informatics of the future



GOAL:
Removing
variation in care
& reducing
negative outcomes



► Now you know all about my journey of passion to practice. What will yours be?

- What is your story? What **inspired you**?
- Are you thinking like a **business leader** and a nurse?
- Are you being a good **troublemaker**?
- Are you thinking about **data science** and your moonshot?
- Are you staying aware of the roadblocks to **practice-driven care**?
- Are you ready to **do one cool** thing to show the power of informatics?





Clinical Informatics



Remember..... you aren't changing the life of one patient, you are changing the life of millions.





So get out there and be the BEST troublemaker you can be.....

“I have an almost complete disregard of precedent, and a faith in the possibility of something better. It irritates me to be told how things have always been done. I defy the tyranny of precedent. I go for anything new that might improve the past”.

Clara Barton (1888)

UTA Commencement May, 2017





QUESTIONS & DISCUSSION





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