

What are the Implications of our “Innovations?”

Regis College President's Lecture Series

October 6, 2022

Results International Research, Consulting and Solutions
Bringing Thoughtful Analysis to Every Engagement



Phoenix Mourning-Star, PhD

Currently

- CEO - Results International Research, Consulting & Solutions
- External Relations Chair, Board of Directors - Workplace Fairness
- Board of Directors - YMCA Virginia Beach, VA

Projects/Clients/Previous Activities

- Environmental/Public Health Research Assistant - WHO
- Environmental Health Epidemiology Fellow at the U.S. EPA
- Cyber Security Statistician - US Marine Corps Operational Testing
- Senior Managing Epidemiologist - Armed Forces Health Surveillance Division; Defense Health Agency
- Sr. Scientist - Atlantic Fleet, US Naval Medical Public Health Ctr
- STEM Education Analyst - the National Science Foundation
- Dengue Fever Vector Capacity Modeler - Colorado State University
- Biostatistician - Vaccine Testing Ctr at Fletcher Allen Hospital

Education

- B.A in mathematics from Colorado Mesa University
- M.S in Biostatistics from Univ. of Vermont
- Graduate Institute for Public Health from Johns Hopkins School of Public Health
- M.S in Public-Environmental Health Epidemiology from Colorado State University
- MLS/LLM in International Environmental Law from the Univ. of Auckland
- M.A in International Science and Technology Policy from The George Washington Univ.
- PhD in Ecology with Chemical/Biological Engineering from Colorado State University

Key Informing Insights

- COVID-19
 - Sr. Bioinformatics Coordinator State of Maine
 - Directing Epidemiologist of Rural Response
 - External Consultant Colby College's COVID Task Force
- World Health Organization & IHME
 - Global Burden of Disease
- US Navy Jet-Fuel Contamination/Exposure at Joint Base Hickam-Pearl Harbor

Theme: Innovation Tools for

Data Capture, Data Monitoring, Data Quality-Security

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What are the cybersecurity issues? (part 1)

- Important to keep in mind throughout the discussion-- what is
 - Cyber
 - Security
 - Cybersecurity in healthcare
-and ...what do we actually mean when we say
 - 'Safe'
 - 'Secure'
 - 'Resilient'

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How is it all paid for?

- Will insurance continue to pay for virtual visits/home visits
 - do they really increase access?
 - are some left behind?
- Yes...and No
 - Depends

What about the policy changes that are necessary for providing care across state lines?

- Are there changes necessary in the ACA?
 - Affordable Care Act...revisions?
- ACA and US Healthcare is like a patient in pre-hospital care --- we in the industry must
 - Check-Call-Care.... & monitor/re-assess/adjust
 - Airway-Breathing-Circulation.... & monitor/re-assess/adjust

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What is the cost of the new technologies – they are very expensive.

- Are they widening the health care gap or promoting equity?
 - The challenge of R&D, Capitalism and Policy in Healthcare
 - US Healthcare [policy] often conflates equity and equality and what it means to ‘have access’

A Federal to State to County/Community Perspective

Recall Presentation 'Theme':

*Innovation Tools for Data Capture, Data Monitoring,
Data Quality-Security*



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Innovation Tools for Data Capture, Data Monitoring, Data Quality-Security

- Again, like a patient:
 - We can't monitor what we can't measure
 - We can't fix what we aren't monitoring
 - ...we can't do anything with data we don't know we're missing

CDC's Data Modernization Initiative (DMI)

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CDC's Data Modernization Initiative (DMI)

CDC Data Modernization Initiative | A Roadmap of Activities and Expected Outcomes



CDC's Data Modernization Initiative (DMI)

- Multi-year, billion-plus dollar effort to modernize core data and surveillance infrastructure across the federal and state public health landscape.
 - Not just about technology, putting the right people, processes, and policies in place to help us solve problems before they happen
 - reduce harm caused by problems that do happen

What are the cybersecurity issues? (part 2)

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What are the cybersecurity issues? (part 2)

- Systems are only as strong as the weakest link
 - VPN's help, but how is the patient/customer and 3rd-party securing their data?
- Value is just a Cost-Benefit Analysis
 - Is the pay-off worth it? To the Ransomware creators/users - yes!
- Time is never on our side
 - With time, motivation, opportunity and pay-off, security-breaches are a matter of when not if
 - OPM Federal breach

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What are the ethical issues

- How is personal data collected being used
 - is it sent to pharmaceutical companies for research – is it used for advertising?
- Is it in some massive database that can be hacked?
- Is the data being used in research to improve the public's health?

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Questions?

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