Privacy/Security Panel Discussion: Issues & Concerns of Security on Population Health Data

January 28, 2016

Ocean Place Resort & Spa in Long Branch, NJ
Agenda

• Introduction & Overview – Ron Manke, Program Director, New Jersey Innovation Institute
• Moderator – Fred Molinari, Sales Director, Healthcare, BIO-key International, Inc.
• Provider Perspective – Robert J. Babin, Director, Strategic Initiatives & CISO, Saint Peter’s Healthcare System
• Vendor Perspective - John Khoury, Vice President, Lumeris
• Legal Perspective - Helen Oscislawski, Esq., Attorneys at Oscislawski LLC
• Information Security Perspective - Mac McMillan, Chairman, CEO & Co-Founder, CynergisTek, Inc.
Introduction & Overview

Ron Manke, Program Director, New Jersey Innovation Institute

- Organizational Background
- Current Initiatives with Population Health (PH) in NJ
- NJII view of PH data vulnerabilities
Good morning my name is Ron Manke and I work for NJII - New Jersey Innovation Institute. Formerly, known as NJ-HITEC, The Innovation Institute has recently earned a $49M collaborative agreement to move 11,500 providers from fee for service to value based payment models. Our goals include saving $250M dollars over 4 years and improving the health of 500,000 chronic patients. Most of these patients will be admitted to the hospitals. Some of these patients will go and see a specialist, such as a cardiologist. Most of these patients will also see a primary care physician. The old fee for service model required each of these entities to create a chart and keep their own records. There is no incentive to coordinate care. There is no incentive to share my information with the next provider. Sure there is always a consult letter, but really a consult letter is just another piece of paper and very hard to keep track of or improve upon. The new pay for performance model shares information across these entities. The pay for performance model ties these entities together. Not only are we sharing information but we are moving data between systems. Raise your hand if you are prepared for the 2016 quality reimbursement model? Totally ready for P4P?
Another term being used more and more in the pay for performance conversation is population health. CMS defines population health as “the health outcomes of a group of individuals, including the distribution of such outcomes within the group.” So, if I read that again slowly, the health outcomes of a group of individuals – “the outcomes of my COPD patients” including the distribution of such outcomes within the group, My COPD patient outcomes improved by using this intervention versus my COPD patient outcomes who didn’t improve using this intervention. Again, data about patients is going to be shared. We will need to ensure data is being protected. We will need to ensure data is de-identified. We will need to ensure that data is being shared securely. We will need to have boundaries in place to ensure patient data is not being leaked or distributed. We will have to ensure that the ways we share information is trackable and the integrity of the source is verifiable.
• The NJ-HITEC grant taught providers how to structure data and collect data. The PTN grant will now teach providers how to use the data they have collected. PTN will demonstrate best practices on sharing data. PTN will teach providers how to engage with patients and show them data that will improve their outcomes. PTN will prepare providers for the value based payment models.

• I would like to say thank you to our panelists for letting me frame our discussion.
Organizational Background

BIO-key International is a leading provider of fingerprint biometric identification, secure mobile credentialing and user identity verification solutions. We help customers reduce risk and protect the value of their services and assets, while minimizing the ongoing costs for Access Control and Identity Management. BIO-key provides the most effective, reliable and efficient biometric authentication capabilities available today.

BIO-key's products are software based and optimized to deliver fast and accurate user authentication on any device, network or Internet environment. These software products are compatible with more than fifty fingerprint readers.

Our technology is standards-compliant, independently validated by the National Institute of Standards & Technology (NIST) and hardware and operating system agnostic. This provides efficient and reliable Identity Management, Privilege Entitlement and Access Control for your sensitive information and access points
Introduction & Overview
Fred Molinari, sales Director, Healthcare, BIO-key International, Inc.

• As Ron just talked about, “Sharing Data”. “Patient Data”... Protecting data... Leaking Data...
• Ways to share information and track it...
• Before in our earlier session, we reviewed Security of data and data breaches ...
• As technology increases, so do the Issues of Privacy and Security, and the Issues and Concerns of Population Health Data. What are we facing now, and in the future? How are we managing these issues?
• Our next speaks will cover some topics related to Population Health/Privacy/Security, and Issues and concerns. Problems/Solutions/Outcomes...

• Robert Babin - Provider Prospective
• John Khoury – Vendor Prospective
• Helen Oscislawski – Legal Perspective
• Mac McMillian – Information Security Perspective
Provider Prospective
Robert J. Babin, Director, Strategic Initiatives & CISO, Saint Peter’s Healthcare System

- Organizational Background
- Current Initiatives
- Impact of PH on the role of a CISO
Provider Prospective
Robert J Babin, Director, Strategic Initiatives & Chief Security Officer
Saint Peter’s Healthcare System

• Organizational Background
  – Saint Peter’s Healthcare System is a Catholic institution which draws inspiration from its religious heritage. Besides Saint Peter’s University Hospital, the system includes the Saint Peter’s Foundation and Saint Peter’s Health and Management Services Corp.; the Saint Peter’s Urgent Care Center in Skillman; the Center for Ambulatory Resources, also known as CARES, an ambulatory surgery center in New Brunswick; the Adult Day Center in Monroe; and the Family Health Center at How Lane in New Brunswick.

  – Saint Peter's University Hospital, the flagship of the system has been serving the healthcare needs of central New Jersey for more than a century. Saint Peter's has grown to become a technologically advanced, 478-bed teaching hospital that provides a broad array of services to the community and brings the latest medical practices and highly skilled professionals to the bedside. We treat more than 30,000 inpatients and more than 200,000 outpatients annually. We employ 2,800 healthcare professionals and support personnel, and more than 900 physicians and dentists have privileges at our facility.
Provider Prospective
Robert J Babin, Director, Strategic Initiatives & Chief Security Officer
Saint Peter’s Healthcare System

• **Impetus for Change:**  
  – “unsustainable growth of health costs, growing lack of access to healthcare, and increasing disparities in care have forced the U.S. to start changing how healthcare is delivered”

• **Reimbursement Paradigm Shift:**  
  – “population health management (PHM) will become a required core competency for provider organizations realigning payment from a fee-for-service environment to payment based on efficiency and quality”

• **The PHM Goal:**  
  – “keep the patient population as healthy as possible and minimize the need for expense interventions such as emergency department visits, hospitalizations, imaging tests, and procedures”
Provider Prospective
Robert J Babin, Director, Strategic Initiatives & Chief Security Officer
Saint Peter’s Healthcare System

• **Planning/Execution of Population Health Management**
  – **Data Collection, Storage, and Management:** BIG DATA
    • data warehouse, intelligence platforms, registries, special applications, HIEs, billing systems, scheduling systems, other (EHRs), Labs, Radiology, Pharmacy, payer systems....
  
  – **Monitoring and Analytics:** AUTOMATION
    • predictive modeling tools, quality improvements (ACO/MU), utilization management analytics, readmission management, risk management, population health reports, electronic registries fed by EHRs and administrative data...
  
  – **Care Coordination/Management:** SHARED CARE
    • care team approach, real-time alerts, patient communications, preventative care through patient health reminders, workflow realignments to (phone visits, email consultations, increase in out-of-office contacts and decrease office visits...)
Provider Prospective
Robert J Babin, Director, Strategic Initiatives & Chief Security Officer
Saint Peter’s Healthcare System

• Planning/Execution of Population Health Management
  – Patient Engagement: SERVICE DELIVERY
    • mobile health and telehealth technologies, maximize HIEs among care providers, create a culture of engagement, identify care gaps/engage patients in their own care through the use of electronic technologies, reengage the patient-physician relationship through the use of technology...
Provider Prospective
Robert J Babin, Director, Strategic Initiatives & Chief Security Officer
Saint Peter’s Healthcare System

• **Impact of PHM on the role of a CSO**
  – **Interoperability and Cybersecurity:** BALANCING ACT
    • Accountable Care Organizations (ACOs), Web Portals, Cloud Hosting
    • Health Information Exchanges (HIEs), Direct – Health Information Service Providers (HISPs), HIPAA Omnibus, Providers, Payers, Public Health, Research, Mobile Health Apps/BYOD, Remote Access

• **Cybersecurity Best Practices**
  • Strong Passwords/Authentication Methods
  • Anti-Virus/Malware Software
  • Firewall(s) “next generation firewall(s)”
  • Control Access to PHI/Control Physical Access
  • Limit Network Access
  • Monitor User/Network Activity
  • Ongoing Education and User Training
  • Plan for the Unexpected (Data Breach Response Plan)
  • **Implement** -> **NIST Cybersecurity Framework**
Vendor Prospective
John Khoury, Vice President, Lumeris

- Organizational Background
- Current Initiatives
- Lumeris view of PH data vulnerabilities
Tech Enabled Service Perspective

John Khoury, Vice President, Lumeris

Organizational Background

- Supports health systems’, payers’ and providers’ journey to value-based care
- Builds Population Health Services Organizations (PHSOs) and defines populations for risk
- Empowers providers and their Accountable Care Teams (ACTs)
- Work with payers to ensure the right contracts, measures and incentives in place
- Influence physician behavior through prescriptive approach to drive quality, cost and utilization performance

5 Star-rated plan
- #1 rated plan in the market
- Increasing enrollment:
  - 2014 - 41,000 members
  - 2015 – 51,000 members
  - 71% MCR (2014 pre-surplus distribution) *
  - 83% MCR (2014 post-surplus)

* No PCP costs included

A + B = C

All-in-One Coverage • Affordable • Extra Benefits

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Tech Enabled Service Perspective

John Khoury, Vice President, Lumeris

Current Initiatives

University of Maryland Medical System
ARIA Health
Baptist Health South Florida
BlueCross BlueShield of Kansas City
BlueCross BlueShield of Louisiana
CAMBIA Health Solutions
ESSENCE Healthcare
Highmark
Independence
Noble Health Alliance
Cigna HealthSpring
tandigm health
Abington Memorial Hospital

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Tech Enabled Service Perspective

Data Vulnerabilities: Ecosystem

- **Hospital Based Systems**
  - **Hospital EMR**
    - Systems: EMR, PMS
    - Data: Acute procedures/results
  - **Imaging / Radiology**
    - Systems: PACS
    - Data: Images, Results
  - **Labs**
    - Systems: Lab System
    - Data: Results
  - **Financial / Billing**
    - Systems: Billing Systems
    - Data: Claims

- **Community Based Systems**
  - **Patient**
  - **Payer**
    - Systems: Enrollment, Claims
    - Data: Covered Services, Claims
  - **Primary Care Physician**
    - Systems: EMR, PMS
    - Data: Health History, Exam Results, Claims
  - **Ancillary Providers**
    - Systems: Various
    - Data: Prescriptions, Lab Values, DME
  - **Specialist**
    - Systems: EMR, PMS
    - Data: Specific Exam Results
  - **Surgery Centers**
    - Systems: EMR, PMS
    - Data: Acute procedures/results
  - **Pharmacy**
    - Systems: Pharmacy Systems
    - Data: Claims
  - **Systems: Wearables/Med Devices**
    - Data: Wt, Steps, BPs, BGs, etc.
Tech Enabled Service Perspective

John Khoury, Vice President, Lumeris

Data Vulnerabilities: Workflow Views

An individual is both a member of a health plan and a patient on a providers panel

- A physician should only see their patients regardless of payer
- A payer should only see their members regardless of PCP

Multiple Populations Being Managed

Health Plan A Members

Health Plan B Members

Health Plan C Members

Dr. A’s Panel  Dr. B’s Panel  Dr. C’s Panel  Dr. D’s Panel  Dr. E’s Panel
Legal Perspective
Helen Oscislawski, Esq., Attorneys at Oscislawski LLC

- Organizational Background
- Current Initiatives
- Legal aspects of PH data privacy and security
- Who is responsible to protect the privacy and security PH data?
Information Security Perspective
Mac McMillan, Chairman, CEO & Co-Founder, CynergisTek, Inc.

• Organizational Background
• Current Initiatives
• Insights and Recommendations on protecting PH data
• What are the ingredients of an effective PH data security program
Q+A

Ron Manke:
• Will standards for data sharing help speed up the process of organizations sharing data in the future?
• What is the most simple precaution I should take when sharing data?
• Are standards accepted across the US?

John Khoury
• How does HIPAA play into this?
• How do state specific sensitive data laws (e.g. Sexually Transmitted Infections, Mental Illness, Drug Abuse, etc.) play into this?
• How do you handle Multipayor-multipopulation situations with providers/payors?
• Is it possible to have the same/similar workflows regardless of payor or population?
Q+A

Robert J. Babin:

• Should care providers and/or healthcare organizations perform risk assessments on their Third-Party Vendors as to their security compliance activities related to the HIPAA/ HITECH and Omnibus rules?
• Is there a holistic approach for preventing internal breaches in patient data security?
• With the increase in team-based interventions driven by the increased access to data storage and analytical information how do we prevent data leakage?
Q+A

Mac McMillan:

• What is the status of the Cybersecurity Act and how are ASPR/ONC/OCR/NIST, etc rolling it out?
• What are the current initiatives by CHIME, AEHIS and HIMSS Analytics for CISOs?
• What is the latest update from the FDA Government round table/web conference this week and can you tell us about the newly minted FDA guidance on Medical Device Security?
• What do you expect from the new leadership at the NH ISAC?
• With the continued rise in cyber attacks, what should entities be particularly wary of?
Helen Oscislawski, Esq:

• What do the recent slew of cyberattacks on health care data and the resulting class action lawsuits teach us about security and health data?

• What are the privacy and security requirements that an organization must meet to comply with laws like HIPAA when they are handling population health data?

• Do laws like Meaningful Use provide organization with any additional guidance on how to handle population health data while ensuring security and privacy?
Ron Manke is the Program Director for the Transforming Clinical Practices Initiative - Garden Practice Transformation Network (GPTN). This Collaborative Agreement is a Center for Medicare & Medicaid Services (CMS) grant. In this role Ron is responsible for overall management and accountability for meeting transformation goals and commitments made to providers. Ron also manages the Northern half of New Jersey while Bill O’Byrne manages the Southern half of New Jersey.

Ron has worked in the healthcare IT field for the past 9 years. Prior to GPTN, Ron worked with the Regional Extension Center to bring over 5,000 primary care physicians from paper based records to electronic health records and prove Meaningful Use. NJ-HITEC was one of the top performing regional extension center programs in the nation. Ron managed the Northern New Jersey market and worked closely with physicians and hospitals. Ron delivered many CME’s on Health IT subjects such as PQRS, Meaningful Use, Patient Centered Medical Home and Accountable Care.
Bios
Ron Manke, Program Director, New Jersey Innovation Institute

• Ron has worked with several NJ based ACO’s and has been collecting and aggregating clinical quality measures for the past 3 years. He has experience in modifying operational workflows, engaging with providers and change management strategies that help deliver better patient care. Ron is also responsible for a clearinghouse service which delivers transitional care management services to providers in New Jersey.

• Ron previously worked on the vendor side with an EMR company and communications company where he had 15 years of management experience. Ron was providing automated patient reminders and connecting doctors’ offices together with technology several years ago.

• Ron holds a Bachelor of Science degree in Marketing from the University of Phoenix Online. He is also a volunteer fireman in his home town and current officer of the department. He is a Community Oversight Board Member and the Chairman of the Acute & Ambulatory Sub Committee at Bergen Regional Medical Center in Paramus, NJ.
Fred Molinari, Sales Director, Healthcare, BIO-key International, Inc.

• Fred is the Sales Director, Healthcare Division for BIO-key International. Fred joined BIO-key in July, 2015 and he is responsible for Healthcare sales, marketing and business development of biometrics software and hardware throughout the U.S. BIO-key International is a leading provider of fingerprint biometric identification, secure mobile credentialing and user identity verification solutions. BIO-key’s technology is deployed in leading hospitals, clinics and private practices. Healthcare providers utilize BIO-key's fingerprint biometric technology to enhance security, increase convenience and meet compliance requirements of the DEA and State Board of Pharmacy. Doctors, nurses and administrators use BIO-key to access EHR records and to provide compliant two-factor authentication for electronic prescription of controlled substances.
Fred Molinari, Sales Director, Healthcare, BIO-key International, Inc.

- Fred’s involvement with the NJ HIMSS Chapter started in October of 2015, but he has been an active HFMA committee member of NJ, NY, and PA for more than 10 years.
- Prior to BIO-key, Fred’s career path included over 20 years of experience marketing revenue cycle management software to healthcare organizations in the Northeast.
- Fred resides in Howell Township, NJ with his family. He’s a graduate of William Paterson University College where he received several degrees, majoring in Business Management and minoring in Economics and Philosophy.
Bios
Robert J Babin, Director, Strategic Initiatives & Chief Security Officer
Saint Peter’s Healthcare System

Robert has over 35+ years of varied experiences covering the manufacturing, financial, a healthcare industries. He has held management positions ranging from mid-level through executive-level positions in the Information Technology field.

He has served as an Adjunct Professor for several years with Husson University in (ME) and New Jersey City University in (NJ) teaching Managerial Accounting, Management Science and Operations Management to undergraduate students.

His educational background consists of three Master’s degrees; a Master of Science in Business (M.S.B.); a Master of Business Administration (M.B.A) both from Husson University in (ME); and a Master of Science in Technology Management (M.S.M) from New Jersey Institute of Technology in (NJ).

He holds two certifications in Project Management from IAPPM: Certified Project Manager (CPM) and Certified Project Director (CPD), along with two certifications in Information Security from ISACA: Certified Information Systems Auditor (CISA) and Certified Information Security Manager (CISM).
Bios

Mac McMillan, Chairman, CEO & Co-Founder, CynergisTek, Inc.

- Mac McMillan, FHIMSS, is co-founder and CEO of CynergisTek, Inc., a top-ranked information security and privacy consulting firm. He is Chair of the HIMSS Privacy & Security Policy Task Force and brings nearly 40 years of experience from both Government and private sector positions. He has worked in the healthcare industry since his retirement from the federal government and contributes regularly to the thought leadership around compliance, security and privacy in healthcare. In 2013 he was named one of the top 10 influencers in Health IT Security, and in 2015 one of the Top 50 Most Influential people in Health IT as well as named to the CHIME Healthcare Executives in Security Advisory Board.
Bios

John Khoury, Vice President, Lumeris

John Khoury has a multifaceted background as a clinical pharmacist with more than 15 years of experience in Six Sigma process improvement, business development and healthcare management. In addition, he has more than seven years of administrative experience managing teams of up to 30 members. John also has extensive business development experience presenting and collaborating with C-Suite executives.

In his current position, John provides strategic oversight for Lumeris’ national payor and provider clients. Working with our current and future customers, John develops strategic solutions that enable the move of a payor or provider from volume based care (e.g. Fee for Service) to value based care. These clinical and operational solutions enable the alignment of the business model and care delivery model to function in today’s value based care world.

John specializes in: provider-patient engagement, process improvement, clinical quality improvement, cost and utilization improvement, incentive alignment, and volume to value strategy and transformation.
Bios

Helen Oscislawski, Esq., Attorneys at Oscislawski LLC

• Helen is a corporate and regulatory attorney whose practice focuses almost exclusively on advising and representing health care clients. She is recognized nationally for her substantial experience with and understanding of legal issues that arise with the use of electronic medical records and networked health information exchange. In 2008, Governor Corzine appointed Helen to the New Jersey Health Information Technology Commission to fill the seat reserved by statute for “an attorney practicing in this State with demonstrated expertise in health privacy”. In 2010, Governor Christie reappointed Helen to the Commission, and she also served as the Chair of New Jersey’s Privacy and Security Committee.
Bios
Helen Oscislawski, Esq., Attorneys at Oscislawski LLC

- Over the course of her career, Helen has completed complex legal analyses regarding patient consent issues, privacy standards for primary and secondary uses of data, including population health and research, security breach response, and other patient-data related challenges. She is known to many as a “go to” attorney on HIPAA and legal advice relating to health care data privacy and breaches. Helen currently advises some of the most sophisticated organizations in the nation on all aspects of managing patient privacy and legal risk resulting from data breaches. She speaks regularly at national events on these topics, as well as maintains a popular blog called Legal HIE. For more information about Attorneys at Oscislawski LLC, visit www.oscislaw.com.
Organizational Links

• NJ HIMSS website: www.njhimss.org
• NJ HFMA website: www.hfmanj.org
• New Jersey Innovation Institute: www.njii.com
• BIO-key International, Inc.: www.bio-key.com
• Saint Peter’s Healthcare System: www.saintpetershcs.com
• CynergisTek: www.cynergistek.com
• Lumeris: www.lumeris.com
• Attorneys at Oscislawski: www.oscislaw.com
Informational Links

• 1st Population Health informational reference link goes here