



GLOBAL CYBER SECURITY IN **HEALTHCARE & PHARMA** SUMMIT Co-located with **BLOCKCHAIN** IN **HEALTHCARE** CONGRESS

ADVANCING SECURITY, ADOPTION AND COLLABORATION
IN HEALTHCARE, PHARMA AND MEDICAL DEVICES

LONDON UK

6-7 February 2020



#CybSecHealth

www.global-engage.com/event/cybsec-health-summit
www.global-engage.com/event/blockchain-health-congress



Following on from last year's successful meetings that brought together 150 attendees, Global Engage is pleased to once again announce the **Global Cyber Security in Healthcare and Pharma Summit** and the co-located **Blockchain in Healthcare Congress** which will take place on 6-7 February 2020 in London.

This two-day conference has a track dedicated to Cyber Security and another to Blockchain and will bring together high-level representatives from the healthcare, medical device and pharmaceutical sectors to create a collaborative rich environment in order to:

- Share case studies, lessons learnt and best practice techniques
- Analyse strategies and technologies for security management, incident monitoring, detection and response
- Accelerate collaboration and adoption whilst accessing the opportunities and challenges of Blockchain within multiple application areas
- Provide attendees with the ability to build and improve a comprehensive cybersecurity program

The number of cyber-attacks in healthcare is on the rise, and the industry must do more to prevent and respond to these incidents. The Summit will bring together high-level representatives from around the globe to create a cybersecurity roadmap for the future. Experts will examine the cybersecurity landscape in these health sectors, with a particular focus on strategies for protection and incident response, as well as on business/regulatory considerations. Central to the aims of this event is facilitating collaboration and cooperation amongst the diverse stakeholders that will be in attendance.

Blockchain is one of the most talked about new technologies that have the potential to revolutionise the healthcare industry, it is crucial to first understand the nature of blockchain technology, to distinguish the hype from the reality and then to see real-world case studies of how blockchain can be and is being, applied to healthcare systems.

On February 5th H-ISAC will be running a complimentary workshop. More information on this to follow.

CYBER SECURITY

Nature of the threat

- Examining the cyber security landscape
- Current challenges facing each system
 - Healthcare – interoperability; securing medical records; rising IT costs
 - Medical devices – system design; securing post-market devices; standards for manufacturers
 - Pharma – clinical trial data; IP; insider threats

Strategies & technologies for protection

- Security / vulnerability management
- Incident monitoring, detection, response
- Threat analysis & cyber intelligence capability improvement
- Novel strategies / technologies to pre-empt emerging threats
 - Blockchain, machine learning/ AI etc
 - Automation & autonomous response
 - Cloud security
- Forensics & security investigations
- Best practices in the sector
- Case studies and lessons learnt

Business & regulatory considerations

- Integrating security into corporate strategy and staff awareness
- Overcoming competency, budget and support issues
- GDPR & implications post-Brexit
- Role of insurance in covering cyber attacks
- Increasing cooperation and collaboration
- Building and then improving a comprehensive cybersecurity program

BLOCKCHAIN

Blockchain Technology, Opportunity & Challenges

- How will blockchain will affect healthcare
- Market overview, trends, hype, opportunities and challenges
- The most promising application areas for blockchain within healthcare?
- Blockchain technology and start-ups – where do you get started?
- Next generation DLTs
- Collaboration to accelerate adoption
- Case study examples of use

Drug Supply Chain & Traceability

- Tracking drugs through the supply chain
- Blockchain in drug discovery & development

Rethinking Clinical Trial Management

- Utilising patient-generated data through “wearables” and IoT devices
- Distributing patient consent and trial results
- Trial auditing and clinical safety analyses
- Accelerating research/Clinical data sharing

Applying Blockchain to Healthcare Systems

- Case studies from existing systems & trials
- Examining infrastructure, costs & scalability
- Nationwide interoperability
- Designing and executing smart contracts
- Incorporating commercial blockchain solutions
- Blockchain for healthcare records- EHR/EMR
- Medication prescription blockchain
- Public engagement

Security & Access

- Cybersecurity via Data Access Management
- Patient and provider identity
- Regulation and intellectual property
- Ownership and storage of data

CONFIRMED CYBSEC SPEAKERS



TONY CLARKE

Head of Information Security at
ICON plc



DENISE ANDERSON

President, H-ISAC



SEAN MOSS-PULTZ

CEO & Founder, Bitmark



EVA TĚLECKÁ

Director, IT Risk Management &
Security, Merck Sharpe and Dohme



SCOTT NICHOLS

Director, Global Product Privacy and
Cybersecurity, Beckman Coulter



STEVE ABRAHAMSON

Senior Director, Product Cyber
Security, GE Healthcare



IVAN SANCHEZ

CISO, Sanitas (part of Bupa)



JOTHI DUGAR

CISO, NIH Center for Information
Technology, Office of the Director,
USA



CAROLINE RIVETT

Global Cyber Security Lead for Life
Sciences, KPMG



HEATHER LEIGH FLANNERY

Health Circle Global Lead,
ConsenSys; Co-Founder & Board
Chair, BiHG, IEEE ISTO; Co-Chair,
HIMSS Blockchain Task Force



STEVE JOHNSON

Information Security Manager,
EMEA, Orion Health



STEFAN VAN GANSBEKE

CISO, CM-MC - Mutual health
insurance, Belgium



ROBIN SMITH

UK Chapter Lead, IoT Security
Institute



MARTINE KERSAINT

Clinical Engineering Manager
Biomedical Clinical Engineering-
I.S. The Hospital of the University of
Pennsylvania



JÜRGEN FOCKE

Program Manager Production IT
Security, Bayer Pharmaceuticals

CONFIRMED BLOCKCHAIN SPEAKERS



JIM NASR

VP Technology & innovation,
Synchrogenix, a Certara Company



ADAMA IBRAHIM

Associate Director, Clinical
Operations, Biogen UK



AXEL SCHUMACHER

Co-Founder & CSO, Shivom



BENOÎT MARCHAL

Senior IT Project Manager
Specialized in Health IT, Roche



MEHDI BENCHOUFI

Chef de Clinique Assistant,
Département d'Epidémiologie
Clinique, Hôpital Hôtel Dieu,
France



MANUELA MARIA SCHÖNER

Corporate Strategy & Consulting,
Boehringer Ingelheim



UNMESH LAL

Program Manager - Life Sciences,
Transformational Health, Frost and
Sullivan



NATALIE PANKOVA

Healthcare Lead, Government
Blockchain Association UK



HEATHER LEIGH FLANNERY

Health Circle Global Lead,
ConsenSys; Co-Founder & Board
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STEFAN VAN GANSBEKE

CISO, CM-MC - Mutual health
insurance, Belgium



STEFAN KENDZIERSKY

EBVP Head of EMEA/APAC,
Impelsys Inc



JAMES GANNON

Partner, Quality Accelerator



ANCA PETRE

Co-Founder & CEO, 23 Consulting

08:00-08:50 Registration & Refreshments

CYBER SECURITY

BLOCKCHAIN IN HEALTHCARE

08:50-09:00

Global Engage Welcome Address and Track Chair's Opening Remarks:

08:50-09:00

Global Engage Welcome Address and Track Chair's Opening Remarks: **Pasi Piitulainen**, Former Head of Global Procurement, Actelion



KEYNOTE ADDRESS: TONY CLARKE

Head of Information Security ICON plc
New adventures in Security Automation
This session will discuss real experience in security automation and will discuss:

- Complementing various types of automation.
- Experience with integrations, orchestration & response.
- The impact of automation through various lenses

09:00-09:40



KEYNOTE ADDRESS: JIM NASR

VP Technology & innovation, Synchrogenix, a Certara Company
Data Before Blockchain

Healthcare is burdened by complex and regulated interactions amongst a group of stakeholders providers, administrators, insurers, patients, pharmaceuticals and others that largely have their own interests, often disincentives to play well together and strongholds of complementary data...culminating in general distrust amongst the parties. Blockchain is not the silver bullet to solve these fundamental complexities or create universal trust. However, blockchain can support a more trust worthy, more patient centric and more transparent exchange of certain types of health data. To get that benefit though, we first need said data: patient-centric, desiloed, interoperable and real-time. How to get there is the story of this talk...lessons learned from large scale implementations of both real-time data and supporting blockchain technologies in healthcare.

09:00-09:40



DENISE ANDERSON

President, H-ISAC
Paradigm Shift - Changing the Conversation
Technology is changing healthcare at a rapid pace. Innovation is driving positive patient experiences but also introduces risk as procedures, devices,

data and processes are connected for efficiency and ease of use. Five to Six years ago we weren't placing cyber and healthcare in the same sentence but today the concept of cyber security in healthcare is more widely accepted. However industry in in need of a paradigm shift. Changing conversations and concepts from cyber security to enterprise risk management, forming collaborative communities across industry/ies to share/fight against threats and from CISO to business enabler. This session will discuss why to shift the dialogue and how to accomplish it.

09:40-10:10



ADAMA IBRAHIM

Associate Director, Clinical Operations, Biogen UK
Cross-Industry Collaboration Evaluating How Blockchain Can Transform the Pharmaceutical and Healthcare Industry, Part of Emerging Trends & Technology PhUSE

Describing the landscape in the pharma and healthcare settings, exploring the areas where Blockchain could be used and presenting two detailed use cases.

- Drug Supply Chain using Smart Contracts;
- Patient Data Access/Transparency) to support future development and implementation for an upcoming proof of concept.

09:40-10:10



SEAN MOSS-PULTZ

CEO & Founder, Bitmark
How Property Rights for Health Data Accelerate Healthcare Research

Patients are open to helping medical research but they are greatly concerned about privacy and cannot risk any situation in which personal information can be used against them through data leaks or hacks. Because of this, many patients remain inaccessible to researchers. In creating the world's first diabetes data trust with Health2Sync, Asia's leading diabetes management platform, Bitmark used its blockchain technology to give patients complete control (and confidence) over their personal privacy and data ownership through property rights. This trust provides a private, equitable way for individuals, researchers and companies to safely exchange even those most sensitive health data as Bitmark's technology allows data-science computations, including artificial intelligence and machine learning, to be run on the data within the trust while ensuring participant privacy.

10:10-10:40

10:40-11:50 Morning Refreshments / One-to-One Meetings



EVA TĚLECKÁ

Director, IT Risk Management & Security, Merck Sharpe and Dohme

Enterprise resiliency program

- MSD response to cyber incident.
- Program Structure
- Governance for successful resiliency program implementation across the enterprise.

11:50-12:20



AXEL SCHUMACHER

Co-Founder & CSO, Shivom
A blockchain platform for precision medicine data sharing

- Data Sharing
- Genomic Data
- Dynamic Patient Consent

11:50-12:20



SCOTT NICHOLS

Director, Global Product Privacy and Cybersecurity, Beckman Coulter

Product Security - How to Drive Cultural Change

- Drivers and pressures for creating a dedicated product privacy & security program.
- Multi-layered defense strategy and privacy
- Security by design implementation.

12:20-12:50



BENOÎT MARCHAL

Senior IT Project Manager Specialized in Health IT, Roche

Blockchain to support Precision Medicine and empower patients

Presentation on the feasibility and benefits of creating a vendor/pharma independent, open source, Blockchain network to keep the real identity of the patients protected while allowing the possibility to:

12:20-12:50

12:20-12:50

Continued



STEVE ABRAHAMSON

Senior Director, Product Cyber Security, GE Healthcare

Medical Device Security in the Age of Big Data: Managing Risk and Building Trust

Establishing security and trust within Healthcare

within today's technology risk environment has many challenges, but if these challenges are understood, solutions can be found. This presentation will explore the developing healthcare technology environment, inherent security challenges, and paths to solutions for these challenges. Some key areas that will be covered:

- Recent advances in healthcare technology are improving lives but creating greater risks to security
- Most people do not understand the risks associated with new technology, particularly in Healthcare
- Trust can be built through technical actions coupled with transparency and collaboration
- Deficiencies in the practice of risk management can be a barrier to trust, and must be resolved
- Solutions to these challenges are possible within a collaborative community of security and healthcare

12:50-13:20

12:50-13:20



MEHDI BENCHOUFI

Assistant Professor Centre d'Epidémiologie Clinique, APHP, Université Paris Descartes-Sorbonne Paris Cité

Blockchain, a path to clinical research reproducibility

Clinical research is aiming to produce the ground truth of any decision in healthcare but it is severely undermined by a low rate of reproducibility. This is here one of the greatest challenge of contemporary medicine. We will see how blockchain can improve dramatically the clinical studies transparency, traceability and hence quality. In the meantime, we will focus on how it is especially needed in the field of Artificial Intelligence, given the weight we can anticipate of machine learning based systems in healthcare and the potential of misconducts in this decisive area.

12:50-13:20

13:20-14:20

Lunch

14:20-14:50

SOLUTION PROVIDER PRESENTATION

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14:20-14:50

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14:50-15:20

LOTHAR GRAMELSPACHER (Reserved)

Cyber Security Expert

Motivations, Patterns and Challenges to establish OT Security

Lothar will talk about lessons learned while setting up OT security. In a complex and regulated environment with product lifecycle time far longer than the lifecycle of software used within products, digitalisation requires a fundamental change of approach. He will talk about typical patterns and cultural differences that need to be faced and strategies to keep products long time secure.

14:50-15:20

15:20-15:50



IVAN SANCHEZ

CISO, Sanitas (part of Bupa)

Topic: Strategies & technologies for protection

- Security / vulnerability management
- Incident monitoring, detection, response
- Threat analysis & cyber intelligence capability improvement

15:20-15:50



UNMESH LAL

Program Manager – Life Sciences, Transformational Health, Frost and Sullivan

Blockchain in Healthcare - Differentiating the Hype from Reality

- Analyze the key trends and developments around blockchain technology capturing the essential building blocks for implementing a healthcare-focused blockchain ecosystem in the next 5-10 years.
- Discuss blockchain technology's most potential applications in some of the pressing needs of the healthcare industry such as health data interoperability, cybersecurity, insurance fraud management, clinical trials and drug supply chain provenance.
- Provide a global flavor around blockchain technology deployment and discuss current adoption trends across major healthcare-focused use cases such as the adoption timeline, growth opportunities, implementation challenges, government and commercial initiatives, select collaboration or deals, and the key companies and consortiums to watch.
- Provide strategic imperatives and recommended business models to foster healthcare-focused blockchain ecosystem partnerships for future implementation on a large scale across healthcare use cases.

15:50-16:40 Afternoon Refreshments / One-to-One Meetings

SENIOR REPRESENTATIVE (Reserved)
 NHS Digital
Cyber Security at the NHS

16:40-17:10

Invitation Out

17:10-17:40

CROSS EVENT 60 MINUTE ROUNDTABLE DISCUSSIONS:

Roundtables are informal, small-group interactive discussions on key topics in the field. Discussion leaders will introduce sub-topics/questions for discussion and roundtable attendees are encouraged to participate actively in the session.



Table 1: The Role Of Blockchain in Precision Medicine: Challenges, Opportunities and Solutions

UNMESH LAL

Program Manager – Life Sciences, Transformational Health, Frost and Sullivan



Table 2: Driving implementation and adoption of blockchain technologies in healthcare

NATALIE PANKOVA

Healthcare Lead, Government Blockchain Association UK

- Emergence of novel business models
- Interactions with oracles and analytics
- Product and user focus



Table 3: Blockchain - TBC

HEATHER LEIGH FLANNERY

Health Circle Global Lead, ConsenSys; Co-Founder & Board Chair, BiHG, IEEE ISTO; Co-Chair, HIMSS Blockchain Task Force



Table 4: A search for the ultimate digital risk reporting

STEFAN VAN GANSBEKE

CISO, CM-MC - Mutual health insurance, Belgium

- Why is it so difficult to create a business case for security initiatives?
- Let us explore and exchange good reporting and dashboarding examples that makes our cyber and digital risk management life easier.

16:40-17:40

17:40

Chair's Closing Remarks / End of Day One

17:40-18:40

Networking Drinks Reception

08:15-08:55

Refreshments / Networking Meetings

09:00-09:40



**KEYNOTE ADDRESS:
JOTHI DUGAR**

CISO, NIH Center for Information Technology, Office of the Director, USA

Operation Cyber Wellness - The Integrative Medicine Approach to Cybersecurity

- The Science of Diversity & Implicit Bias in Cyber
- The fine art of empowering young girls & women into the Cyber Workforce
- The Whole-istic Approach to Cybersecurity & Health
- Summary - Exploring how Pieces of the puzzle all fit together (Diversity, Women, Psychology, Cybersecurity, Healthcare)

CYBER SECURITY IN HEALTHCARE

09:40-10:10



CAROLINE RIVETT

Global Cyber Security Lead for Life Sciences, KPMG

Consumer Genetic Testing: How Safe is it?

Consumer genetic testing is becoming increasingly popular with people trying to understand their ancestry and their history.

But how is this extremely personal data kept safe, and what implications does their DNA testing have for themselves and their families. This talk will review some of the tests available, and the privacy approaches for the companies involved.

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10:10-10:40

BLOCKCHAIN IN HEALTHCARE

09:40-10:10



**KEYNOTE ADDRESS:
HEATHER LEIGH FLANNERY**

Health Circle Global Lead, ConsenSys;
Co-Founder & Board Chair, BiHG, IEEE ISTO;
Co-Chair, HIMSS Blockchain Task Force

Protected Health Information (PHI) - TBC

SOLUTION PROVIDER PRESENTATION

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10:10-10:40

10:40-11:50

Morning Refreshments / One-to-One Meetings

11:50-12:20



HEATHER LEIGH FLANNERY

Health Circle Global Lead, ConsenSys;
Co-Founder & Board Chair, BiHG, IEEE ISTO;
Co-Chair, HIMSS Blockchain Task Force

Preserving Privacy - TBC

11:50-12:20



JAMES GANNON

Partner, Quality Accelerator

Overcoming regulatory challenges in healthcare blockchains

Given the ageing regulatory landscape, How can startups and large enterprises seek innovative approaches to building new capabilities within the healthcare market while adhering to the regulatory requirements set down upon them?

50 MINUTE PANEL DISCUSSION:

Incident response in Healthcare

- Establishing best practice response
- Limiting damage
- Recovery
- Maintaining business continuity



CAROLINE RIVETT (Chair)

Global Cyber Security Lead for Life Sciences, KPMG



JOTHI DUGAR

CISO, NIH Center for Information Technology, Office of the Director, USA



STEVE JOHNSON

Information Security Manager, EMEA, Orion Health

11:50-12:40

CROSS EVENT 60 MINUTE ROUNDTABLE DISCUSSIONS:



Table 1: From data to blockchain

JIM NASR

VP Technology & innovation, Synchrogenix, a Certara Company

This roundtable will focus on what it takes to create real-time, interoperable data exchanges in the healthcare space and where and how it makes sense for blockchain to be considered. The following considerations are likely to be discussed:

- Data ownership
- Legal and policy implications
- Process implications
- Technology options
- Real-life results (vs. theory)



Table 2: Blockchain 2 - Blockchain and Patient Centric Data Ownership

STEFAN KENDZIERSKY

EBVP Head of EMEA/APAC, Impelsys Inc

The discussion focusses on providing data ownership to patients and how this may allow more seamless data interchange and sharing of information. It takes into consideration the privacy, transparency and security of patient data via authentication through blockchain, placing the patient at the centre of its control.

- Let's exchange views on:
- Interoperability and data interchange
- Patient centric data ownership
- Smart wearable data

11:50-12:40

12:20-13:10

Continued

12:20-13:10

- Blockchain's wider role
- Global benefits from approved data usage from patients



Table 3: Medical Device Cybersecurity Program
MARTINE KERSAINT

Clinical Engineering Manager, Biomedical Clinical Engineering- I.S. The Hospital of the University of Pennsylvania

- Bringing Awareness and understanding between protection and availability. Although the CIA triad is composed of Confidentiality, Availability and Integrity. Primarily focusing on Confidentiality can significantly affect availability of medical devices. There must be a balance in the triad with primary focus on patient care in the center.
- Disruption in clinical care operations due to cyber security. Developing an effective business continuity plan for medical equipment can minimize and mitigate downtime to reduce affecting patient care.
- Importance of the preparedness and response to the functionality of a device. Create and train an internal clinical engineering response team with disaster recovery expertise to recognize appropriate interventions that can significantly minimize threats and exposure time.



Table 4: Organizing for the day our production gets attacked
JÜRGEN FOCKE

Program Manager Production IT Security, Bayer Pharmaceuticals

Organizing for the attack comprises preventive measures as well as corrective measures. Both topics need an organization that increases the security level for prevention but in case of an attack is capable to detect incidents, react on them and recovers production after serious impacts. Let's share thoughts and concepts how this can be achieved best.

- Prevent: Define concepts and processes, assign responsibilities and empower people. What is the right balance between security and operations?
- Detect: How to detect incidents quickly, reliably and react in an appropriate manner?
- Recover: Prepare information chain for the day product supply is endangered. Setup recovery concepts for a serious impact. How to recover and what to prepare?

13:10-14:10

Lunch

14:10-14:40



STEFAN VAN GANSBEKE

CISO, CM-MC - Mutual Health Insurance, Belgium

Reinforcing your company's digitalization by implementing an healthy effective security strategy

- Addressing emerging digital security risks in an agile, digitalizing and privacy aware environment
- Developing and implementing your digital security strategy into the DNA of your organization
- Creating transparency and trust towards the board

14:10-14:40



ANCA PETRE

Co-Founder & CEO, 23 Consulting

The state of blockchain adoption in healthcare in Europe

- Overview of the adoption level of blockchain for different healthcare stakeholders;
- Key success factors and lessons learned from building blockchain projects;
- Remaining challenges and what to expect next?

14:40-15:10



ROBIN SMITH

UK Chapter Lead, IoT Security Institute

Combatting Future Cloud Security Risks

We live in an expanding digital universe. Each year zettabytes of data are added to global information asset holdings according to recent analysis by IDC, expanding the potential attack surface for highly organised cyber criminals. The digital universe increases in complexity continually, requiring cyber security practitioners to address a fundamental problem; how do we ensure this deluge of data is protected to the highest standards in the age of the mega-hack? The proliferation of data breaches during the last decade, including the 2017 Equifax breach which saw 144 million financial records extricated by highly motivated cyber criminals, highlights the limits of defensive cyber security.[i] It is evident that our current approach to cyber risk management, defending the organisation from individual risks one by one, is simply not adequate in the age of an expanding digital universe. This presentation addresses future cloud risk and how to combat emerging threats.

15:10

Conference Close



DON'T DELAY, BOOK YOUR PLACE TODAY!

Places are limited and are based on a first come, first served basis so to avoid disappointment contact us today to reserve your place at Global Engage's Global Cyber Security in Healthcare & Pharma Summit and Blockchain in Healthcare Congress 2019 on the 6th-7th February 2020.

PHONE BOOKING

+44 (0) 1865 671957

maria@globalengage.co.uk

Our conference team will make all the necessary arrangements.

ONLINE BOOKING

Visit the website to book your place

www.global-engage.com/event/cybsec-health-summit

www.global-engage.com/event/blockchain-health-congress

THE CONGRESS PACKAGE INCLUDES:

- All Conference Sessions
- Lunches and Refreshments
- Access to Exhibition Room
- Networking Drinks Reception
- Conference Workbook
- E-Document Pack

HOTEL ACCOMMODATION

Hotel accommodation will be available at a group rate.

FREE NEWSLETTER

For updates on the Global Cyber Security in Healthcare & Pharma Summit and Blockchain in Healthcare Congress 2020, plus free resources and reports, as and when our speakers authorise their release dates, check for updates at:

www.global-engage.com/event/cybsec-health-summit

www.global-engage.com/event/blockchain-health-congress

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