

# HIMSS17調查報告

平成 29 年 6 月

標準化推進部会 国際標準化委員会

# 目次

#### はじめに

- 1. 出張者、日程
  - 1.1. 出張者
  - 1.2. 日程
  - 1.3. 次回日程(参考)
- 2. HIMSS17 全体概要
- 3. テーマ別報告
  - 3.1. 基調講演-Opening Keynote
  - 3.2. 主な変化の兆候
  - 3.3. EHR インセンティブ・プログラムの方向性について
  - 3.4. ACO (Accountable care organization) について
  - 3.5. PHM (Population Health Management)
  - 3.6. HIMSS Interoperability Showcase
  - 3.7. 相互運用性と FHIR
- 4. 教育セッション一覧
  - 4.1. 表 1 セッション ID 順
  - 4.2. 表 2 分類別
  - 4.3. 表 3 テーマ配分表
- 5. 略語集

おわりに

### はじめに

標準化推進部会·国際標準化委員会 委員長 岡田 真一

HIMSS17 は、2017 年 2 月 19 日から 2 月 23 日の 5 日間、フロリダ州オーランドの Orange County Convention Center で開催された。例年通り 42,000 人以上の参加者、1,300 以上の出展企業、5,000 を超える教育セッションという世界最大規模のヘルスケア IT 学会・展示会である。

JAHIS では例年グローバルの視点から、HIMSS 視察を定点観測として実施しており、本年も3名の有識者による調査を実施した。



HIMSS 会場の外観

HIMSS17 が開催された 2 月はトランプ政権が発足後 1 か月という時期であった。トランプ政権が公約としているオバマケア廃止が本当に実施されるのか?廃止後の医療保険制度はどのように変わるの

か?ヘルスケア IT はどのような影響を受けるのか?世界中が関心を持って見守っている状態であった。

へルスケア公共政策に関連する IT の他にも HIMSS のテーマは多岐に渡る。2015 年 10 月に Google の AlphaGo が世界トップを破った衝撃から始まったといわれる第 3 次人工知能(AI)ブーム、ヘルスケア領域への AI 活用の期待が高まる中、米国ではどのような状況なのか? CDSS(Clinical Decision Support System)は?ゲノムを使った精密化医療(Precision medicine)は?ヘルスケア IT サービスを人体に例えるなら、血流をサラサラにするための相互運用性(Interoperability)はどのように進展しているのか?患者本人を健康維持に関与させようという Patient Engagement や 地域住民の健康を管理する PHM(Population Health Management)の動向は?等々である。これらの中でも特に注目すべきトピックスを中心にレポートとして纏めたのが本報告書である。

本報告書において、このような米国におけるヘルスケア IT の最新動向や熱気を少しでも感じ取って頂き、会員各社における事業の一助となれば幸甚である。

平成29年6月1日

### 1. 出張者、日程

# 1.1. 出張者

岡田 真一 (標準化推進部会·国際標準化委員会委員長) 稲岡 則子 (標準化推進部会·国際標準化委員会委員) 中野 直樹 (標準化推進部会·国際標準化委員会委員)

### 1.2. 日程

開催日程:2017年2月19日~23日

開催場所: Orange County Convention Center,

9800 International Drive, Orlando, FL 32819

# 1.3. 次回日程(参考)

開催日程:2018年3月5日~9日

開催場所: The Venetian Resort Hotel Casino,

3355 Las Vegas Blvd S, Las Vegas, NV 89109

### 2. HIMSS17 全体概要

「はじめに」章にも掲載の通り、今年の HIMSS は変化の最中に在って、例年通り世界最大の規模で、活況なものであった。この変化とは、政権交代に伴うレギュレーションに依るもの、AI に代表される先端 ICT 技術の導入に依るもの、そして遺伝子情報の活用といった医療技術の革新に依るもの、と、多面的なものであった。

この変化の渦中に在って、HIMSS には従来通り、医療 ICT 関連企業、そして医療機関やアカデミアのみならず、政策関係者、標準化等業界団体、マスメディア等、様々な参加者により活況であった。

Meaningful Use およびその後継政策となる MACRA による EHR の普及拡大や ACO といった政策 との相関の高い活動や、昨年 HIMSS より非常に注目され始めた PHM の社会実装を始めとして、モバイル、BigData、IoT/IoE といった先進技術の活用については変わらず関心の的であった。この中で、大きな変化として CDSS そのものに関するセッションの激減に代わり遺伝子情報の利活用と BigData / AI の相関、医療情報の従来以上の利活用の拡がりを支える相互運用性関連技術等に関する発表 / 展示が目立っていた。

この変化がこれから一年でどこまで発展、普及し、その先にどの様な方向性になるのか、定点観測により世界の潮流を掴んでいく上で、本年 HIMSS は変化点であった様に思われる。

### 3. テーマ別報告

# 3.1. 基調講演-Opening Keynote



HIMSS North America Board Chairman Dr. Zaroukian

IBM CEO Ginni Rometty氏の講演



後半は"Cognitive healthcare is mainstream ,it's real and it's here"と題し、

HIMSSプレジデント&CEO Dr.Steve Lieberとの対談



基調講演はHIMSS北米ボード議長Zaroukian氏の開会の辞から始まった。

メインのIBM CEOのGinni Rometty氏は講演の中で、今はまさに"Cognitive era"であり、Healthcare "moonshot"に向けて前進していると述べ、Cognitive computing技術が個別化・Precision医療を推進すると力強く語っていた。また、実現のための重要な基本的 3 要素として、クラウド、データ・アーキテクチャ、AIプラットフォームを挙げていた。セキュリティに関してFDAとIBMはブロックチェーンのinitiativeを開始していることや、IBM Watson Healthに関する新しいアナウンスメント\*(バリューベース・ケア・ソリューション、医用画像コラボレーション、Watson Health専任のコンサルティング・サービス組織、Atris Healthとの協業等)についても触れられていた。

\*https://www-03.ibm.com/press/us/en/pressrelease/51642.wss

IBM Watson Health Value-Based Care Solutions Debut at HIMSS17

https://www-03.ibm.com/press/us/en/pressrelease/51643.wss

Watson Health Medical Imaging Collaborative Expands to 24 Members; IBM Debuts

Watson Imaging Clinical Review, the First Cognitive Imaging Offering

http://www-03.ibm.com/press/us/en/pressrelease/51645.wss

IBM Unveils Expanded Watson Platform for Health Cloud Capabilities and Introduces the Watson Health Consulting Services Unit at HIMSS17

http://www-03.ibm.com/press/us/en/pressrelease/51646.wss

Central New York Care Collaborative (CNYCC) Chooses IBM Watson Care Manager to Improve Health Across the Region

http://www-03.ibm.com/press/us/en/pressrelease/51647.wss

Atrius Health and IBM Watson Health Forge Agreement to Bring Cognitive Insights to Primary Care Physicians and Their Patients

### 3.2. 主な変化の兆候

#### EMR/EHR

地域医療連携ネットワークや PHM、医薬品開発等多面的な情報利活用に向けた「Open 化」がキーワードとなっていた。例として Epic 社による Dabooble(同社の DWH ソリューション) & Kit による情報利活用関連機能の整備や、Cerner 社による EHR を対象とした Open Platform 化に向けた\$700M 規模の R&D による API 整備等が会場で毎日配布される HIMSS Daily Insider 等でも取り沙汰されていた。

#### CDSS

2009 年頃に始まり昨年まで継続して行われていたシステム概念啓発や導入事例等の、CDSS そのものをテーマとする Session が激減し 1 つのみとなった。展示会場での同ソリューション展示数は変化無く、また新規/継続案件含め様々なテーマを取り扱う Session では CDSS を介した利用者への情報提供等機能活用が当然のこととしてシステム構成されており、この状況より、Meaningful Use 要件にも組み込まれている背景からも、CDSS は普及期に入りつつある様に見受けられた。

#### BigData と AI

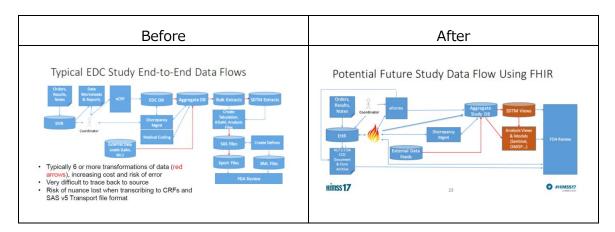
大規模データを扱うBigData 関連技術と、その情報処理をインテリジェントに支援する技術としてのAI の組み合わせを伴う発表等が急激に増大した。

特に、BigData については PHM を対象とする情報解析に依る CDSS を介した先制医療介入関連が目立った。AI については様々な要素技術や応用対象が在る中で、BigData 技術の活用を前提とする遺伝子×疾病×医薬品の相関解析による CDSS を介した PGx(Pharmacogenomics)の実装に関する事例発表が行われる等、OMICS 領域での活用が目立った。

尚遺伝子検査については、コスト対効果等の視点より、解析装置としてシーケンサーよりもマイクロアレイを活用している事例が大多数であった。

#### 相互運用性の拡大

相互運用性の拡大については従来通り高い関心が持たれていたが、特に HL7 FHIR に関する発表/展示が多く、更なる利活用範囲拡大として、臨床研究領域、特に医薬連携領域に於いて EMR/EHR を入力とする eSource の保持する情報を CDISC 標準へと準拠させるデータ変換で HL7 FHIR の拡張技術を積極的に活用していくことが Mr. Wayne Kubick, CTO, HL7 International、および Mr. Michael Ibara, Head of Digital Healthcare, CDISC による共同発表も実施される等、SoE への応用が加速化している様に見受けられた。



HL7/CDISC 相互運用性実現に於ける FHIR の導入 Before/After

(出典: Session #37 Setting Clinical Research on FHIR)

### 3.3. EHR インセンティブ・プログラムの方向性について

#### Meaningful Use の状況

2011 年に「データ収集と共有」"Data capturing and sharing"をテーマとしてスタートした MU (Meaningful Use) は、その後「先進診療プロセス」"Advanced Clinical processes"、「アウトカムの改善」"Improved outcomes"へと拡張し、2018 年から開始される MACRA 法の下でのインセンティブ・プログラムに組み込まれた。インセンティブ・プログラムは、MIPS (Merit-Based Incentive Payments System) と APM(Alternative Payment Models)の 2 つからの選択制となっている。

#### **MACRA**

MACRA 法は The Medicare Access and CHIP Reauthorization Act of 2015 (メディケア・アクセスと児童医療保険支援計画の期限延長に関する法律) の略語であり、2015 年 4 月に超党派的に署名された法律である。

CHIP は、Children's Health Insurance Program の略であり、1997 年に始まった米国の SCHIP (State Children's Health Insurance Program) が 2009 年から Children's Health Insurance Program Reauthorization Act (CHIPRA) として延長されていた。

メディケアは65歳以上の高齢者と65歳未満の障害者向けの米国の公的医療保険プログラムである。 CMS(Centers for Medicare & Medicaid services,保健福祉省の内庁 メディケア・メディケイド・サービスセンター)が運営するプログラムであり、米国の社会保険制度において社会保障年金制度に続き2番目に大きく、米国総人口の約16%に相当する5000万人強が加入している(2013年時点)。

#### メディケアを対象とした新しいインセンティブ・プログラム

MACRA 法の下でメディケアを対象とした新しい EHR インセンティブ・プログラムが開始される。CMS からは、医療費支払いの基準が、MACRA 以前の「量」から MACRA 後は「質」に変えていくとの明確な説明が為された。新しいプログラムは質に基づいた支払プログラム(Quality payment program: QPP)である。



CMS のブース "Quality payment program"をアピール

現在複数存在している医師やプラクティショナーの質と価値に関する以下のプログラムは 2018 年 12 月 31 日で終了し、MIPS (Merit-Based Incentive Payments System) に一本化される。

- ・医師の質レポートプログラム(PQRS)
- ・価値ベースの支払い変動要素(VM)
- ・メディケア EHR インセンティブ・プログラム (EHR-MU)

また、MIPS よりも厳しい基準だが多額のインセンティブを与える APM(Alternative Payment Models)というプログラムも提供される。MIPS と APM による支払方法は、2017 年の評価に基づいて 2019 年から開始され、医師はこの 2 つの中からいずれかを選択することができる。

MIPS は、品質・コスト・診療行為の改善・認定 EHR 技術の使用が基準とされている。ただし 2017 年はコストについては報告義務とはされない。

もう一方の APM は、MIPS と同等の品質基準・認定 EHR 技術の使用に加えて、CMS の指導の下

で慢性疾患や長期の病気のメディケア受益者に対する継続的なケアを提供するメディカルホームモデル (medical home model) を実施するなどに加えて、継時的に進展する基準を満たすことも要求されている。 支払金額の割合か対象患者の割合のいずれかの基準を選択することとされている。

このように APM の基準は MIPS よりも厳しいが、5%のインセンティブを 6 年間受給することができるという医師側のメリットも大きい。

CMS としては最終的には APM にまとめていくことを意図しており、「APM には大きな期待が寄せられていると思うが、ほとんどの医師はおそらく MIPS で始まるだろう」との発言があった。

#### ヘルスケア ICT の普及推進

HITECH 法にもとづいて全米で 60 以上の地域拡大センターを含む健康技術拡張プログラム (Health Information Technology Extension Program) が認可されている。ジョージア州保健情報技術普及センター (GA-HITEC) もそのひとつである。

GA-HITEC は、ジョージア州の 56 病院、4,000 人以上の医療者に対して、MACRA や Meaningful Use の支援、EHR・EMR のベンダ選定など導入指導、病院や ACO の経営支援、ヘルス ケア IT サービスの提供などを行っている。

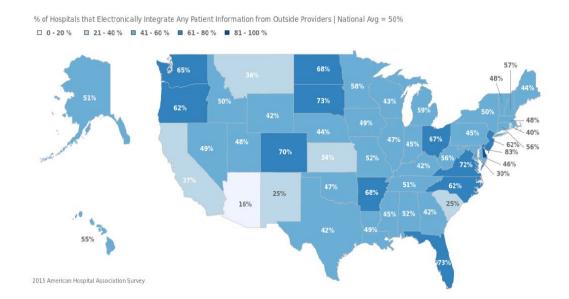
医療が恵まれていない地域はどこか?MACRA に対する聴講者の理解がどこまで進んでいるか?などの質問をはさみながらのプレゼンテーションであった。

医療者が少なく、充分なサービスが提供できていない地域の医療者に対して、GA-HITEC が中心となって、ジョージア州を中心とした 8 つの州をまたがり、GA-HITEC の情報ネットワーク、病院や医療者、既存の技術基盤や管理サービスをつないだエコシステムを構築した。助成金も含めて 710 万ドルを投資したとのこと。今後このコンセプトを他の地域にも広げていきたいとのことであった。

このセッションの中で全米の医療 ICT 普及状況を示す資料として「外部の医療者からの提供された医療情報を統合することができる病院が州ごとにどのくらいの比率で存在しているか」というものがあったので引用する。全米の平均が 50%。ジョージア州は平均よりも低い 42%である。

# Electronic Data Exchange between Rural Hospitals and Community Physicians is Limited





(出典: Session #236 MACRA Preparation in Underserved Populations with Data-Centric HIE)

### 3.4. ACO (Accountable care organization) について

医療の質とコストに対して利害が異なる患者、医療者、保険者といったステイホルダーが存在する中で、 健全な医療政策を進めていくためには高品質で効率的で低コストの医療を提供することができる体制が 求められる。

米国では、複数の医療機関や医師などの民間の医療統合組織でアウトカム重視の健康戦略に基づき地域住民に対する治療や疾病予防に取り組む ACO(Accountable care organization)という概念が提唱され、2012 年から CMS が選んだ 32 の組織で試行が開始された。

医療の質の向上とコスト削減に成功した病院は CMS からコスト削減に成功した利益の一部還元を受けられる仕組みである。

2012 年に 32 団体であった ACO は、2017 年時点では 480 団体と急増しており、関与する医療機関も 18,281 施設となっている。このことは ACO が米国の医療制度の中で上手にステイクホルダたちの バランスをとりなから活動できていることを意味しているといえるであろう。

今回は 3 つの ACO について聴講したが、成功している ACO は単にマニュアルに沿ったマネジメントを 行っているのではなく、地域や病院の特性を見極めながら独自の対応をしていることがよく判った。ひとつの 成功事例を単純に別の地域に持って行ってもうまく機能しなさそうである。以下 3 つの ACO のセッションを 紹介する。

#### (1)Advocate Health Care

#### 【プロフィール】

シカゴを中心としたイリノイ州中部、 12 病院、1,500 雇用医師、500 パートナ医師、3500 組織 総収入 55 億ドル、858,000 人の住民をカバー

#### 【特徴】

4 段階のプロセスによるサービス構築

Step1:データ接続; EHR、支払い請求、薬剤など

Step2:患者とつなぐ; 2014年から2016年の期間にデータソースと患者とをリンクし、

全レコードの 99.5%をカバー

Step3: データ分析への活用

Step4:患者自身によるマネジメント

データ分析のケーススタディとして、喘息の外来患者に対するケアマネジメントの例を紹介していた。 具体的には発作による救急外来を避けるための行動計画や服薬指導などの介入を行った効果を 説明していた。

#### (2) Value Care Alliance

#### 【プロフィール】

コネティカット州、4 病院、2,000 人以上の医師、85 以上のコミュニティ、 収入 25 億ドル 100,000 人の住民をカバー

#### 【特徴】

2013 年からアライアンス構築を始めたがそれぞれの独立性を尊重したことを力説していた。 病院ごとにメディケア・メディケイドなど加入比率や構成が異なるため、均一化ではなく独自性を活か したとのこと。

データを活用して疾病管理を行っている。発表されていたのは糖尿病と喘息であった。 地域の状況を理解するためには「通り」(Street)のレベルまで把握する必要があるということで 詳細地図へのマッピングが行われていた。

「糖尿病のコントロールは予防訪問よりも高い成果を上げた」という発表に対して、会場からは「メディケアのデータだけでは糖尿病を発見できないと思うが、商用の医療サービスを使っているのか?」という質問があり、「そのとおりだ」との回答であった。

#### (3)UT Southwestern Accountable Care Network

#### 【プロフィール】

テキサス州南西部、27病院、3,000人の医師、177,000人の住民をカバー

#### 【特徴】

45 の Pod を使って医師たちが毎月データ共有、レポートのレビュー、紹介プロセスの改善、ベスト

プラクティスについてのディスカッションを行っている。支払い請求データ・電子カルテデータ(EMR)・ 患者管理データ(Patient Administration Data; ADT)を使って医療提供者を管理 コスト 管理、品質管理に加えて、患者個人の状況を分析し、ハイリスク患者を担当医師に伝える 仕組み。

IT の活用によって 1 年目に 6 百万ドルの節約、2 年目に 330 万ドルの節約を実現したとのこと。 「経済状況が違う地域をどう扱っているのか?」という質問に対しては、「ブロックに区切って別々に対応している」との回答があった。

「請求と EMR のデータに 6 か月のずれがあるのはどうしているのか ? 」という質問に対しては明確な答えがなかった。 おそらく請求データの 6 か月遅れに合わせるしかないと思われる。 このために即時性を求められるデータ活用は難しいであろう。

# 3.5. PHM (Population Health Management)

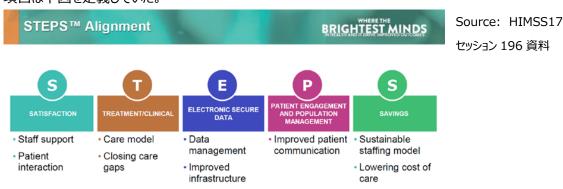
米国におけるヘルスマネージメントは、慢性疾患を中心とした疾病管理に重点が置かれていたが、 近年は PHM (Population Health Management ポピュレーションヘルスマネージメント) の概念を 取り入れた形に進化してきている。 PHM では、地域等の特定集団の身体的・心理社会的ニーズ全体を 評価し、リスク特性・階層に応じて、介入を継続的に行う。 米国では Patient Centered Medical Home や ACO(Accountable Care Organization)の台頭によって、複数の医療サービス提供者が ICT によって情報共有・データ分析を行い、患者のアウトカムを評価しながら介入を行う形で PHM を 効率よく進めてきているようである。 また、 ICT や機器を活用した患者とのコミュニケーションや介入も 行われている。



HIMSS17の教育セッションでは昨年以上にPHMに関連したセッションが多かった。なお、HIMSSが定義した"HIMSS Value STEPS framework"は、医療 ICT を活用して得られる様々な value の分類アプローチを提供するものであるが、HIMSS17の教育セッションの発表はどの value に貢献しているのかを述べることが推奨されていた。STEPS は左記の5つ Satisfaction、Treatment/Clinical、Electronic Secure Data、Patient Engagement & Population Management、Savingsであり、さらにその下の階層の詳細分類も

定義されている。HIMSS Health IT Value Suite については HIMSS の下記サイトに記述されている。 http://www.himss.org/ResourceLibrary/ValueSuite.aspx#/steps-app

50 病院、829 クリニック、23,000 人の医師をかかえる Providence St. Joseph Health の Population Health 部門による教育セッション"IT-enabling Population Health: A Journey, not a Destination"において、ICT を活用したしくみについて発表があった。5 要素に関する value の 項目は下図を定義していた。

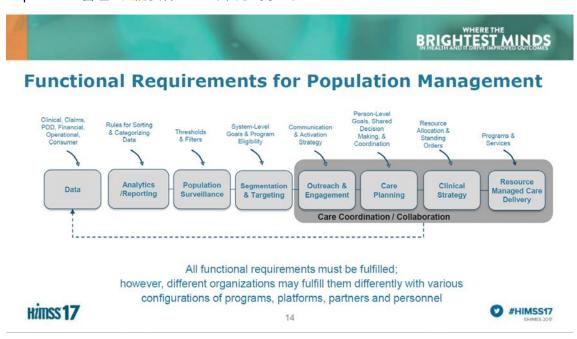


対象階層ごとの指標としては下図に示すものが例として紹介されていた。また、発表の中で Population Health Informtics Program 全体における、ガバナンス、導入技術と要員、データとシステム基盤評 価の重要性を指摘していた。

#### IT-enabling Models of Care **Population Example Areas of Focus Example Metrics** High risk/high · Frequent ED utilization · All-cause readmission utilization · Inpatient discharge · Diabetes: eye exam follow-up · Hemoglobin A1c testing; A1c poor control Diabetes · Diabetes: blood pressure control Cardiovascular risk · CV Disease: use of statins Depression-comorbidities · CAD: lipid control · Antidepressant medication management Gaps in care Screenings · Breast cancer screening Immunizations · Flu & pneumonia vaccines Wellness Weight control · Adult BMI assessment · Wellness visits Well-child visits (15 months – 6 years) Access to care · Children & adolescent access to PCPs Himss 17 #HIMSS17

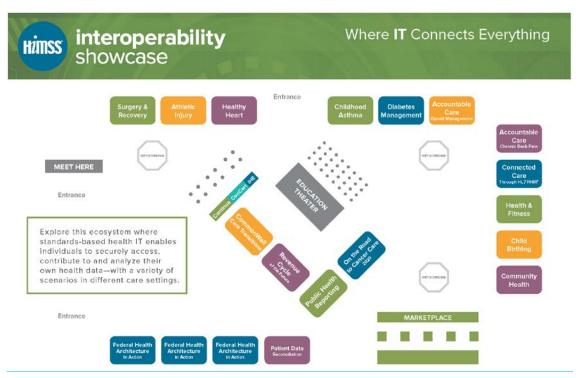
教育セッション"A Universal Operation Model For Population Health Management"では、 Population 管理の機能要件について下記を掲げていた。

19



Source: HIMSS17 セッション 301 資料

### 3.6. HIMSS Interoperability Showcase



http://www.interoperabilityshowcase.org/orlando/2017/demonstration-use-cases

HIMSS Interoperability Showcaseは、例年通り大規模な展示会場を確保し、上記のレイアウト図にあるように、ユースケースごとの複数のブースにおけるデモンストレーションと、Education Theaterにおけるプレゼンテーションがおこなわれた。

ユースケースのブースは下記の16ブースのほかに、Federal Health Architecture in Actionの3ブースがあった。各ブースでは、実機とパネル等を使用したデモンストレーションがシナリオに沿って行われ、各参加企業・団体のシステム間の情報連携が紹介された。各ユースケースにおいては3社から10社のシステムが連携していた。

- 今回紹介されていたユースケース:
  - 1. Surgery and Recovery
  - 2. Athletic Injury
  - 3. Healthy Heart
  - 4. Childhood Asthma
  - 5. Diabetes Management
  - 6. Accountable Care: Opioid Management
  - 7. Accountable Care: Chronic Back Pain
  - 8. Connected Care Through HL7 FHIR®

- 9. Health & Fitness
- 10. Child Birthing
- 11. Community Health
- 12. CommonWell Care Transitions
- 13. Revenue Cycle of the Future
- 14. Public Health Reporting
- 15. On The Road to Cancer Care 2020
- 16. Patient Data Reconciliation

http://www.interoperabilityshowcase.o rg/orlando/2017/demonstration-use-ca ses





Surgery & Recovery ブース

Connected Care through HL7 FHIR ブース



Interoperability Showcase 参加企業・団体 Education Theater におけるセッション風景



Education Theater では下記の 21 テーマのセッションが開催された。

#### 2月20日

- Promoting Expansion and Innovation in a Mature HIE Network
- The Brave New World of Interoperability
- Interoperability Trends and Practical Examples
- VA Interoperability Efforts
- Devices on HL7 FHIR©
- ConCert by HIMSS & Continua Certified Solving Device Interoperability
- ONC and FHA, Government Collaboration in Action

#### 2月21日

- Maximizing EHR Data for Public Health Reporting
- Improving Healthcare through Open Innovation
- Patient Privacy Choice
- Secure and Reliable Data Exchange with Devices
- Enabling Healthier Populations Through the Immunization Integration Program
- Making Patient Data Available Nationwide via SHIEC's Patient Centered Data Home
- At The Intersection of Interoperability & Security
- Real vs. Perceived Views on Health Information Exchange Organizations An HIE Multi-Stakeholder Panel

#### 2月22日

- The Path Forward to a Learning Health Community
- Live from HIMSS17: Twitter Chat on Interop & APIs
- Personal Connected Health Alliance (PCHA)
- HL7 FHIR® and the Multi-Tenant World
- Late Breaking Session: Olympic Healthcare Interoperability (OHI) Initiative
- Clinical Research Through HL7 FHIR © & CDISC

### 3.7. 相互運用性と FHIR

Health Information Exchange や相互運用性の観点で、HL7 FHIR (Fast Healthcare Interoperability Resources)に言及しているものは、2つの教育セッションと、Exhibition(展示)では31 セッションあり、現在 FHIR が注目されている状況であることが伺える。

教育セッションでは ONC から、患者が利用可能な FHIR ベースの投薬リスト (Medication list)の

発表があった。Interoperability Showcase 展示においては、ユースケースデモ"Connected Care Through HL7 FHIR"を行っていた。そこでのシナリオは下記のように、66歳の COPD 患者のユースケースで、自宅隣りのプライマリケア医師オフィス、地域の ER(Emergency room 救急)、そして拠点センターの ICU と搬送され、それぞれの異なるベンダーシステム(EMR direct, Epic, Medal)間での医療情報連携が FHIR を介することでデモンストレーションされていた。



#### STEPHAN - CONNECTED CARE THROUGH HL7 FHIR®

Follow Stephan, a 66-year-old, on a new-age healthcare journey, where technologies, services, and processes combine to create a connected healthcare community that supports his health as he engages with providers in disconnected silos. As a complicated COPD patient, Stephan visits a new PCP in his neighborhood, visits a local ER, and is transferred to a Center of Excellence for ICU care. As he moves across institutions, his data is promptly updated and shared, allowing critical information to move between institutions at the pace required to deliver the highest quality of care. Join Stephan and his doctors on a healthcare experience available through today's new standards, enabled by advances in technology.

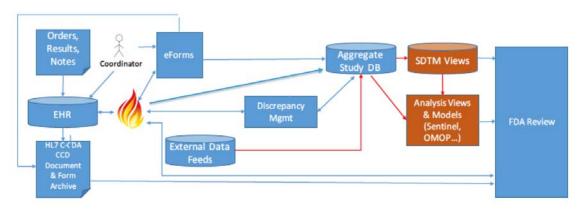
Sponsors: EMR direct, Epic, Medal

#### http://www.interoperabilityshowcase.org/orlando/2017/demonstration-use-cases

Interoperability Showcase の Education Theater では、退役軍人局から現在実施中の FHIR をベースとした統合化プラン (Department of Veterans Affairs (VA) FHIR Transition Plan 2017) の発表があった。その他に、Devices on HL7 FHIR、HL7 FHIR® and the Multi-Tenant World 等の FHIR 関連の発表がみられた。

HL7 からの Setting Clinical Research on FHIR に関する発表では、下図に示すようにたとえば EHR データを EDC CRF へ収集するインターフェースとして FHIR API を使用するものや、 SMART-on-FHIR を利用するものであった。

### Potential Future Study Data Flow Using FHIR



http://www.himssconference.org/sites/himssconference/files/pdf/37\_0.pdf

### 4. 教育セッション一覧

HIMSS17のスケジュール一覧から取得したデータから作成した一覧を掲載する。

Event type の Education (教育セッション) は 292 件であったが、Topics (トピックス分類) の タグは一つのタイトルに複数つけられているものもあるため、表 3 にあるようにトピック分類の総合計は 499 件となっている。

表 3 に示すように、HIMSS16 と比較すると、HIMSS17 トピック分類として、"Compliance, Risk Management, and Program Integrity", "Cybersecurity and Privacy & Security", "Entrepreneurship and Venture Investment", "Genomics/Precision Medicine", "Health IT Public Policy"の5つが追加されていた。

# 4.1 表 1 セッション ID 順

ID	タイトル	トピック分類
2	Data-Driven Medicine: Actionable Insights from Patient	Care Coordination, Culture
2	Data	of Care and Pop Health
4	Using Social Determinants of Health to Power Risk	Clinical and Business
4	Contracts	Intelligence
F	Conversed Balishla Bata Frakansa with Bariana	IT Infrastructure, HIT Stds
5	Secure and Reliable Data Exchange with Devices	& Medical Device Integ
6	CMC. Delivery Cychem Deferme	Clinical Informatics and
6	CMS: Delivery System Reform	Clinician Engagement
8	Hospital Admissions and Doadmissions	Quality and Patient Safety
0	Hospital Admissions and Readmissions	Outcomes
9	HIPAA Privacy, Security - Lessons from 2016 and What's	Cybersecurity and Privacy &
9	Next in 2017	Security
10	How Healthcare and Other Industries Create Delightful	Human Factors, User
10	Experiences	Experience and Design
11	Health Information Technology – Enabling Joint	Leadership, Governance,
11	Readiness	Strategic Planning
17	Can IT Really Save Lives?	Consumer and Patient
17		Engagement
20	Breaking HIE Barriers	IT Infrastructure, HIT Stds
20	Breaking rise barriers	& Medical Device Integ
	Office of the National Coordinator for Health IT (ONC) Town Hall	Health Information
21		Exchange, Interoperability
		and Data Access
25	Demanding a Delightful Care Team Experience	Human Factors, User
	Demanding a Delignical Care ream Experience	Experience and Design
26	MHS GENESIS: Transforming the Delivery of Healthcare	IT Infrastructure, HIT Stds
	This servery of fleathcare	& Medical Device Integ
32	Removing Barriers from Migrating to the Hybrid Cloud	Compliance, Risk
		Management, and Program
		Integrity
35	The Road to Population Health Management	IT Infrastructure, HIT Stds
	The Road to Population Health Management	& Medical Device Integ

ID	タイトル	トピック分類
	Reducing Preventable Inpatient Deaths in Community	Quality and Patient Safety
38	Hospitals	Outcomes
	Consider Infortions Discours Clinical Decision Connect	Health Information
39	Emerging Infectious Diseases, Clinical Decision Support,	Exchange, Interoperability
	and Electronic Health Records Meaningful Use	and Data Access
40	Demanding a Delightful Care Experience for Patients	Human Factors, User
40	Demanding a Delignical Care Experience for Fadients	Experience and Design
47	Protecting PHI in the Cloud	Cybersecurity and Privacy &
47	Protecting First in the Cloud	Security
		Health Information
51	Digital Health Platform	Exchange, Interoperability
		and Data Access
53	Mercy Clinical Pathways Improving Quality and Cost	Quality and Patient Safety
	Piercy Clinical Factiways Improving Quality and Cost	Outcomes
62	Analytics-Driven Evidence Based Care at Providence	Clinical and Business
	Health	Intelligence
64	Advancing Value-Based Models Through Collaboration	Business of Healthcare and
		New Payment Models
65	Post-Acute Integration: Lowering Risk, Lowering Cost	Care Coordination, Culture
	Tost Acute Integration. Lowering Nisk, Lowering Cost	of Care and Pop Health
	Office of the National Coordinator for Health IT (ONC)	Health Information
66	Health IT Policy Update	Exchange, Interoperability
		and Data Access
68	A Breastmilk Management System Improves Patient	Quality and Patient Safety
	Safety	Outcomes
69	Social Health IT – How Digital Tech Can Boost the Social	Consumer and Patient
	Determinants of Health	Engagement
70	Improving Customer Experience: Innovative Strategies and Solutions	Innovation,
		Entrepreneurship and
	und Soldtons	Venture Investment
73	Military Medicine – Connected to the World	Leadership, Governance,
, ,	ca. y readente Connected to the World	Strategic Planning
		Process Improvement,
77	Perfecting the Mobile Solution	Workflow, Change
		Management

Evolving Stakeholder Collaboration in Population Health of Care Coordination, Culture of Care and Pop Health  CMS Quality Payment Program Overview  Clinical Informatics and Clinician Engagement  Quality and Patient Safety Outcomes  Importance of Narrative: Open Notes, Patient Stories, Human Connection  The Physician Voice within Healthcare Innovation  The Physician Voice within Healthcare Innovation  For Entrepreneurship and Venture Investment  Health Information  Exchange, Interoperability and Data Access  Leadership, Governance, Strategic Planning  Enabling Provider-Payer Collaboration: An Essential Conversation  Path Conversation  Standards and Technology Updates from ONC  Childhood Obesity and How to Address It  Connected Health  Improving Outcomes, Efficiencies, and Engagement with PGHD  Connected Health	ID	タイトル	トピック分類
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MHS GENESIS: Driving Successful Business Leadership, Governance,	101	MHS GENESIS: Driving Successful Business	Leadership, Governance,
Transformation Strategic Planning	101	Transformation	Strategic Planning
Care Coordination, Culture	107	The David of the Consumer hand the University	Care Coordination, Culture
107 The Power of the Consumer-based Healthcare Approach of Care and Pop Health	10/	The Fower of the Consumer-based HealthCare Approach	of Care and Pop Health
MIPS: Advancing Care Information and Improvement Clinical Informatics and	111	MIPS: Advancing Care Information and Improvement	Clinical Informatics and
Activities Clinician Engagement	111	Activities	Clinician Engagement
eCQM Readiness and Challenges: An Essential Quality and Patient Safety	1 1 7	eCQM Readiness and Challenges: An Essential	Quality and Patient Safety
Conversation Outcomes	11/	Conversation	Outcomes

ID	タイトル	トピック分類
122	Avoiding a Sophisticated, Targeted Breach: Critical	Cybersecurity and Privacy &
122	Guidance for Healthcare Organizations	Security
123	Mobile Innovations and Telehealth in Emergency Care	Connected Health
425	Senior Care Trending: Tech Case Study for Population	Care Coordination, Culture
125	Health	of Care and Pop Health
120	Entering the Conversational Tech Era: Understanding	Consumer and Patient
139	What's Hype vs. What's Possible	Engagement
		Process Improvement,
140	Change Management: Enhancing the Conversation	Workflow, Change
		Management
1.42	MTDC Outline and Outline	Clinical Informatics and
143	MIPS: Quality and Cost	Clinician Engagement
1.40	Cakerree with a Designer Hebite Haring	Cybersecurity and Privacy &
148	Cybersecurity: Decisions, Habits, Hygiene	Security
154	Maximizing Behavioral Health Care Delivery: Reviewing	Care Coordination, Culture
154	Real World Challenges and Opportunities	of Care and Pop Health
	Efforts to Assist Providers and Patients In Using Health	Health Information
158		Exchange, Interoperability
	IT for High Quality Care	and Data Access
163	No Patient Left Behind: Leading Transition to	IT Infrastructure, HIT Stds
103	Modernized Capability	& Medical Device Integ
	Healthcare Consumerism: Understand the Person Behind the Patient	Health Information
169		Exchange, Interoperability
	Definite the Fatient	and Data Access
171	Semantic Data Analysis for Interoperability	Clinical and Business
1/1	Semantic Data Analysis for Interoperability	Intelligence
172	Developing Health IT Leaders: A Statewide	Career/Workforce
1/2	Collaboration	Development and Diversity
173	Overview of MIPS for Small, Rural, and Underserved	Business of Healthcare and
1/3	Practices	New Payment Models
184	Bridging the Paper Chasm in Healthcare	Connected Health
	Communications	Connected Health
100	Securing Medical Devices and the Internet of Things	Cybersecurity and Privacy &
188	(IoT)	Security
192	RPM: Is It All It Is Cracked Up to Be?	Connected Health

Tr-Enabling Population Health: A Journey, Not a Destination   Care Coordination, Culture of Care and Pop Health	ID	タイトル	トピック分類
Destination of Care and Pop Health Cybersecurity and Privacy & Security  Pursuing Unlimited Mobile Opportunities with Bounded Resources  Portal Use Factors - The Keys to Patient Portal Adoption  What's All the Fuss About Bundled Payments?  MACRA Prep in Underserved Populations with Data-Centric HIE  Business of Health Information Exchange, Interoperability and Data Access  Emerging Impacts of Artificial Intelligence on Healthcare IT  A Universal Operating Model for Population Health Management  Prioritizing Care Coordination for Patients Who Need It Most  Bengging Executives and Boards in Cybersecurity  Security  Cybersecurity and Privacy & Security  The Security Security and Privacy & Security  Security  The Security Security and Privacy & Security  Leadership and Venture Innovation, Culture of Care and Pop Health  Cybersecurity and Privacy & Security  The Security Security and Privacy & Security  Security  David Tyou Know Me? Interoperability: A Patient Narrative  Benefits of Tele-ICU Management of ICU Boarders in the ED  Next-Generation IT Governance: Fully Integrated and Leadership, Governance,	106	IT-Enabling Population Health: A Journey, Not a	Care Coordination, Culture
Portal Use Factors - The Keys to Patient Portal Adoption Resources  Portal Use Factors - The Keys to Patient Portal Adoption What's All the Fuss About Bundled Payments?  Business of Healthcare and New Payment Models  Health Information Exchange, Interoperability and Data Access  Health Information Exchange, Interoperability and Data Access  Health Information Exchange, Interoperability and Data Access  Care Coordination, Culture of Care and Pop Health Most  Orare and Pop Health Cybersecurity and Privacy & Security  Security  Security  Tinnovation, Entrepreneurship and Venture Investment  Innovation, Entrepreneurship and Venture Investment  Electronic Consultations to Achieve the "Quadruple Aim"  Care Coordination, Culture of Care and Pop Health Narrative  Don't You Know Me? Interoperability: A Patient Narrative  Benefits of Tele-ICU Management of ICU Boarders in the ED  Next-Generation IT Governance: Fully Integrated and Leadership, Governance,	196	Destination	of Care and Pop Health
Pursuing Unlimited Mobile Opportunities with Bounded Resources  208 Portal Use Factors - The Keys to Patient Portal Adoption Engagement  231 What's All the Fuss About Bundled Payments?  What's All the Fuss About Bundled Payments?  What's All the Fuss About Bundled Payments?  Business of Healthcare and New Payment Models  Health Information Exchange, Interoperability and Data Access  Gare Coordination, Culture of Care and Pop Health  Prioritizing Care Coordination for Patients Who Need It Most  Sengaging Executives and Boards in Cybersecurity  Engaging Executives and Boards in Cybersecurity  Security  Cybersecurity and Privacy & Security  Innovation, Entrepreneurship and Venture Investment  It Starts with an Idea: Making Innovation Happen  Electronic Consultations to Achieve the "Quadruple Aim"  Don't You Know Me? Interoperability: A Patient Narrative  Benefits of Tele-ICU Management of ICU Boarders in the ED  Next-Generation IT Governance: Fully Integrated and  Leadership, Governance,	100	Tarida Thank Talan Tari	Cybersecurity and Privacy &
Resources   Connected Health	199	Insider Threat - Today, Tomorrow, and Beyond…	Security
Portal Use Factors - The Keys to Patient Portal Adoption  231 What's All the Fuss About Bundled Payments?  What's All the Fuss About Bundled Payments?  Business of Healthcare and New Payment Models  Health Information Exchange, Interoperability and Data Access  Care Coordination, Culture of Care and Pop Health  Cybersecurity and Privacy & Security  Security  Cybersecurity and Privacy & Security  Innovation, Entrepreneurship and Venture Investment  Care Coordination, Culture of Care and Pop Health  Core Coordination, Culture of Care and Pop Health  Cybersecurity and Privacy & Security  Innovation, Entrepreneurship and Venture Investment  Care Coordination, Culture of Care and Pop Health  Don't You Know Me? Interoperability: A Patient Narrative  Benefits of Tele-ICU Management of ICU Boarders in the ED  Next-Generation IT Governance: Fully Integrated and  Leadership, Governance,	202	Pursuing Unlimited Mobile Opportunities with Bounded	Commented Health
Portal Use Factors - The Keys to Patient Portal Adoption  Bingagement  Business of Healthcare and New Payment Models  Health Information Exchange, Interoperability and Data Access  A Universal Operating Model for Population Health Management  Prioritizing Care Coordination for Patients Who Need It Most  Care Coordination, Culture of Care and Pop Health  Care Coordination, Culture of Care and Pop Health  Cybersecurity and Privacy & Security  Security  Cybersecurity and Privacy & Security  Innovation,  It Starts with an Idea: Making Innovation Happen  Lit Starts with an Idea: Making Innovation Happen  Electronic Consultations to Achieve the "Quadruple Aim"  Electronic Consultations to Achieve the "Quadruple Aim"  Don't You Know Me? Interoperability: A Patient Narrative  Benefits of Tele-ICU Management of ICU Boarders in the ED  Next-Generation IT Governance: Fully Integrated and  Next-Generation IT Governance,	202	Resources	Connected Health
What's All the Fuss About Bundled Payments?  Business of Healthcare and New Payment Models  Health Information Exchange, Interoperability and Data Access  A Universal Operating Model for Population Health Care Coordination, Culture of Care and Pop Health  Prioritizing Care Coordination for Patients Who Need It Most  Bengaging Executives and Boards in Cybersecurity  Engaging Executives and Boards in Cybersecurity  Securing the Next-Generation Healthcare Enterprise  Security  Tinnovation,  It Starts with an Idea: Making Innovation Happen  Electronic Consultations to Achieve the "Quadruple Aim"  Don't You Know Me? Interoperability: A Patient Narrative  Benefits of Tele-ICU Management of ICU Boarders in the ED  Next-Generation IT Governance: Fully Integrated and  Next-Generation IT Governance,	200	Double Lies Footoge The Koye to Potiont Poutel Adoption	Consumer and Patient
MACRA Prep in Underserved Populations with Data-Centric HIE  Benerging Impacts of Artificial Intelligence on Healthcare IT  A Universal Operating Model for Population Health Management  A Universal Operating Model for Population Health Most  Bengging Executives and Boards in Cybersecurity  Security  Cybersecurity and Privacy & Security  Security  It Starts with an Idea: Making Innovation Happen  Belectronic Consultations to Achieve the "Quadruple Aim"  Don't You Know Me? Interoperability: A Patient  Next-Generation IT Governance: Fully Integrated and  Next-Generation IT Governance: Fully Integrated and  Health Information Exchange, Interoperability and Data Access  Health Information Exchange, Interoperability and Data Access  Care Coordination, Culture of Care and Pop Health Care Coordination, Culture of Care and Pop Health Cybersecurity and Privacy & Security  Innovation, Entrepreneurship and Venture Investment Care Coordination, Culture of Care and Pop Health Consumer and Patient Engagement Care Coordination, Culture of Care and Pop Health	208	Portal Ose Factors - The Reys to Patient Portal Adoption	Engagement
MACRA Prep in Underserved Populations with Data-Centric HIE  Bemerging Impacts of Artificial Intelligence on Healthcare IT  A Universal Operating Model for Population Health Management  Prioritizing Care Coordination for Patients Who Need It Most  Bengaging Executives and Boards in Cybersecurity  Security  Security  Security Innovation, Entrepreneurship and Venture Investment  It Starts with an Idea: Making Innovation Happen  Belectronic Consultations to Achieve the "Quadruple Aim"  Jon't You Know Me? Interoperability: A Patient  Narrative  Benefits of Tele-ICU Management of ICU Boarders in the ED  Next-Generation IT Governance: Fully Integrated and  Next-Generation, Interoperability: A Poster of Care and Pop Health  Leadership, Governance,	221	What's All the Fuse About Bundled Dayments?	Business of Healthcare and
MACRA Prep in Underserved Populations with Data-Centric HIE   Exchange, Interoperability and Data Access	231	What's All the russ About Bulldled Payments?	New Payment Models
Data-Centric HIE  Bereging Impacts of Artificial Intelligence on Healthcare IT  A Universal Operating Model for Population Health Management  Prioritizing Care Coordination for Patients Who Need It Most  Bengaging Executives and Boards in Cybersecurity  Security  Cybersecurity and Privacy & Security  Security  It Starts with an Idea: Making Innovation Happen  Blectronic Consultations to Achieve the "Quadruple Aim"  Don't You Know Me? Interoperability: A Patient Narrative  Benefits of Tele-ICU Management of ICU Boarders in the ED  Next-Generation IT Governance: Fully Integrated and  Exchange, Interoperability and Data Access  Health Information  Exchange, Interoperability and Data Access  Health Information  Exchange, Interoperability and Data Access  Health Information  Exchange, Interoperability  Care Coordination, Culture of Care and Pop Health  Care Coordination, Culture of Care and Pop Health  Consumer and Patient  Engagement  Care Coordination, Culture of Care and Pop Health  Care Coordination, Culture of Care and Pop Health  Leadership, Governance,		MACRA Prop in Underserved Populations with	Health Information
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Emerging Impacts of Artificial Intelligence on Healthcare IT  A Universal Operating Model for Population Health Management  Of Care and Pop Health  Prioritizing Care Coordination for Patients Who Need It Most  Care Coordination, Culture of Care and Pop Health  Care Coordination, Culture of Care and Pop Health  Care Coordination, Culture of Care and Pop Health  Cybersecurity and Privacy & Security  Security  Cybersecurity and Privacy & Security  Innovation,  Entrepreneurship and Venture Investment  Care Coordination, Culture of Care and Pop Health  Cybersecurity and Privacy & Security  Innovation,  Entrepreneurship and Venture Investment  Care Coordination, Culture of Care and Pop Health  Core and Pop Health  Care Coordination, Culture of Care and Pop Health  Care Coordination, Culture of Care and Pop Health  Consumer and Patient  Engagement  Engagement  Care Coordination, Culture of Care and Pop Health  Consumer and Patient  Engagement  Care Coordination, Culture of Care and Pop Health  Narrative  Engagement  Care Coordination, Culture of Care and Pop Health  Leadership, Governance,		Data-Centric rife	and Data Access
300 IT Exchange, Interoperability and Data Access  301 A Universal Operating Model for Population Health Management  302 Prioritizing Care Coordination for Patients Who Need It Most  303 Engaging Executives and Boards in Cybersecurity  304 Securing the Next-Generation Healthcare Enterprise  305 It Starts with an Idea: Making Innovation Happen  306 Electronic Consultations to Achieve the "Quadruple Aim"  307 Electronic Consultations to Achieve the "Quadruple Aim"  308 Don't You Know Me? Interoperability: A Patient Narrative  309 Benefits of Tele-ICU Management of ICU Boarders in the ED  310 Next-Generation IT Governance: Fully Integrated and  311 Leadership, Governance,		Emorging Impacts of Artificial Intelligence on Healthcare	Health Information
A Universal Operating Model for Population Health Management  Prioritizing Care Coordination for Patients Who Need It Most  Care Coordination, Culture of Care and Pop Health  Cybersecurity, and Privacy & Security  Cybersecurity and Privacy & Security  Cybersecurity and Privacy & Security  Innovation, Entrepreneurship and Venture Investment  Care Coordination, Culture of Care and Pop Health  Cybersecurity and Privacy & Security  Cybersecurity and Privacy & Security  Innovation, Entrepreneurship and Venture Investment  Care Coordination, Culture of Care and Pop Health  Core Coordination, Culture of Care and Pop Health  Consumer and Patient Narrative  Benefits of Tele-ICU Management of ICU Boarders in the ED  Next-Generation IT Governance: Fully Integrated and  Leadership, Governance,	300		Exchange, Interoperability
Management  Prioritizing Care Coordination for Patients Who Need It Most  Bengaging Executives and Boards in Cybersecurity  Security  Security  Security Innovation,  It Starts with an Idea: Making Innovation Happen  Benefits of Care and Pop Health  Cybersecurity and Privacy & Security  Cybersecurity and Privacy & Security  Innovation,  Entrepreneurship and Venture Investment  Care Coordination, Culture of Care and Pop Health  Consumer and Pop Health  Care Coordination, Culture of Care and Pop Health  Care Coordination, Culture of Care and Pop Health  Consumer and Pop Health  Consumer and Pop Health  Consumer and Pop Health  Consumer and Pop Health  Care Coordination, Culture of Care and Pop Health  Consumer and Pop Health  Care Coordination, Culture of Care and Pop Health  Care Coordination, Culture of Care and Pop Health  Leadership, Governance,			and Data Access
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Most  Bengaging Executives and Boards in Cybersecurity  Security  Security  Security  Security  Security  Innovation, Entrepreneurship and Venture Investment  Electronic Consultations to Achieve the "Quadruple Aim"  Don't You Know Me? Interoperability: A Patient Narrative  Benefits of Tele-ICU Management of ICU Boarders in the ED  Next-Generation IT Governance: Fully Integrated and  Of Care and Pop Health  Cybersecurity and Privacy & Security  Innovation, Entrepreneurship and Venture Investment  Care Coordination, Culture of Care and Pop Health  Consumer and Patient Engagement  Care Coordination, Culture of Care and Pop Health  Leadership, Governance,	301	Management	of Care and Pop Health
Most  Bengaging Executives and Boards in Cybersecurity  Security  Security  Security  Cybersecurity and Privacy & Security  Cybersecurity and Privacy & Security  Innovation,  Entrepreneurship and Venture Investment  Electronic Consultations to Achieve the "Quadruple Aim"  Don't You Know Me? Interoperability: A Patient Narrative  Benefits of Tele-ICU Management of ICU Boarders in the ED  Next-Generation IT Governance: Fully Integrated and  Care and Pop Health  Care Coordination, Culture of Care and Pop Health  Care Coordination, Culture of Care and Pop Health  Care Coordination, Culture of Care and Pop Health  Leadership, Governance,	302	Prioritizing Care Coordination for Patients Who Need It	Care Coordination, Culture
303 Engaging Executives and Boards in Cybersecurity  304 Securing the Next-Generation Healthcare Enterprise  306 It Starts with an Idea: Making Innovation Happen  307 Electronic Consultations to Achieve the "Quadruple Aim"  308 Don't You Know Me? Interoperability: A Patient Narrative  309 Benefits of Tele-ICU Management of ICU Boarders in the ED  310 Next-Generation IT Governance: Fully Integrated and  308 Security  309 Cybersecurity and Privacy & Security  Innovation, Entrepreneurship and Venture Investment  Care Coordination, Culture of Care and Pop Health  Consumer and Patient Engagement  Care Coordination, Culture of Care and Pop Health  Leadership, Governance,	302	Most	of Care and Pop Health
Security  304 Securing the Next-Generation Healthcare Enterprise Cybersecurity and Privacy & Security  306 It Starts with an Idea: Making Innovation Happen Innovation, Entrepreneurship and Venture Investment  307 Electronic Consultations to Achieve the "Quadruple Aim" Care Coordination, Culture of Care and Pop Health  308 Don't You Know Me? Interoperability: A Patient Consumer and Patient Engagement  309 Benefits of Tele-ICU Management of ICU Boarders in the ED  310 Next-Generation IT Governance: Fully Integrated and Leadership, Governance,	303	Engaging Executives and Boards in Cybersecurity	Cybersecurity and Privacy &
Security  Innovation, Entrepreneurship and Venture Investment  Electronic Consultations to Achieve the "Quadruple Aim"  Don't You Know Me? Interoperability: A Patient Narrative  Benefits of Tele-ICU Management of ICU Boarders in the ED  Next-Generation IT Governance: Fully Integrated and  Innovation, Entrepreneurship and Venture Investment  Care Coordination, Culture of Care and Pop Health  Consumer and Patient Engagement  Care Coordination, Culture of Care and Pop Health  Leadership, Governance,	303	Engaging Executives and Boards in Cybersecutity	Security
Security  Innovation, Entrepreneurship and Venture Investment  Care Coordination, Culture of Care and Pop Health  Don't You Know Me? Interoperability: A Patient Narrative  Benefits of Tele-ICU Management of ICU Boarders in the ED  Next-Generation IT Governance: Fully Integrated and  Security Innovation, Entrepreneurship and Venture Investment  Care Coordination, Culture of Care and Pop Health  Consumer and Patient Engagement  Care Coordination, Culture of Care and Pop Health  Leadership, Governance,	304	Securing the Neyt-Generation Healthcare Enterprise	Cybersecurity and Privacy &
It Starts with an Idea: Making Innovation Happen  Entrepreneurship and Venture Investment  Care Coordination, Culture of Care and Pop Health  Don't You Know Me? Interoperability: A Patient Narrative  Benefits of Tele-ICU Management of ICU Boarders in the ED  Next-Generation IT Governance: Fully Integrated and  Entrepreneurship and Venture Investment  Care Coordination, Culture of Care Coordination, Culture of Care and Pop Health  Leadership, Governance,	JUT	Securing the Next-Generation Healthcare Enterprise	Security
Venture Investment  Care Coordination, Culture of Care and Pop Health  Don't You Know Me? Interoperability: A Patient Narrative  Benefits of Tele-ICU Management of ICU Boarders in the ED  Next-Generation IT Governance: Fully Integrated and  Venture Investment  Care Coordination, Culture of Care Coordination, Culture of Care and Pop Health  Leadership, Governance,			Innovation,
Electronic Consultations to Achieve the "Quadruple Aim"  Care Coordination, Culture of Care and Pop Health  Don't You Know Me? Interoperability: A Patient Narrative  Benefits of Tele-ICU Management of ICU Boarders in the ED  Next-Generation IT Governance: Fully Integrated and  Care Coordination, Culture of Care and Pop Health  Leadership, Governance,	306	It Starts with an Idea: Making Innovation Happen	Entrepreneurship and
307 Electronic Consultations to Achieve the "Quadruple Aim"  308 Don't You Know Me? Interoperability: A Patient Narrative  Benefits of Tele-ICU Management of ICU Boarders in the ED  Next-Generation IT Governance: Fully Integrated and  Care and Pop Health  Care Coordination, Culture of Care and Pop Health  Leadership, Governance,			Venture Investment
Of Care and Pop Health  Don't You Know Me? Interoperability: A Patient  Narrative  Benefits of Tele-ICU Management of ICU Boarders in the ED  Care Coordination, Culture of Care and Pop Health  Next-Generation IT Governance: Fully Integrated and  Leadership, Governance,	307	Flectronic Consultations to Achieve the "Quadruple Aim"	Care Coordination, Culture
Narrative Engagement  Benefits of Tele-ICU Management of ICU Boarders in the ED Care Coordination, Culture of Care and Pop Health  Next-Generation IT Governance: Fully Integrated and Leadership, Governance,		Electronic Consultations to Achieve the "Quadruple Aim"	of Care and Pop Health
Narrative Engagement  Benefits of Tele-ICU Management of ICU Boarders in the ED Care Coordination, Culture of Care and Pop Health  Next-Generation IT Governance: Fully Integrated and Leadership, Governance,	308	Don't You Know Me? Interoperability: A Patient	Consumer and Patient
309 ED of Care and Pop Health  Next-Generation IT Governance: Fully Integrated and Leadership, Governance,		Narrative	Engagement
D of Care and Pop Health  Next-Generation IT Governance: Fully Integrated and Leadership, Governance,	300	Benefits of Tele-ICU Management of ICU Boarders in the	Care Coordination, Culture
310	JU3	ED	of Care and Pop Health
	24.0	Next-Generation IT Governance: Fully Integrated and	Leadership, Governance,
	310	Operationally-Led	Strategic Planning

ID	タイトル	トピック分類
242	Dala af LITT Vandama in Duamatina Cafa Llas af Dissinsilana	Clinical Informatics and
312	Role of HIT Vendors in Promoting Safe Use of Biosimilars	Clinician Engagement
313	State Medicaid Agency Interoperability	Connected Health
	Interporability Matters Impact on Mammagraphy	Health Information
314	Interoperability Matters: Impact on Mammography Outcomes	Exchange, Interoperability
	Outcomes	and Data Access
BH1	Opening Keynote: Understanding Core Competencies	Business of Healthcare and
DIT	Required to Succeed in a Value-Based World	New Payment Models
BH2	Risk-Sharing in a Value-Based World	Business of Healthcare and
DI 12	Risk-Sharing in a value-based world	New Payment Models
BH3	Designing and Implementing Successful Alternative	Business of Healthcare and
БПЭ	Payment Models	New Payment Models
BH4	Achieving the 3rd Leg of the Triple Aim: Cost Savings	Business of Healthcare and
DI 1 <del>4</del>	Achieving the 5rd Leg of the Triple Airri. Cost Savings	New Payment Models
BH5	Intermountain Health: A Model for Success	Business of Healthcare and
опо	Intermountain Health. A Model for Success	New Payment Models
вн6	Closing Keynote: Medicare-Related Alternative Payment	Business of Healthcare and
DI 10	Models - An Update	New Payment Models
	Opening Keynote: THE ART OF DECEPTION: How	Leadership, Governance,
CIO1	Hackers and Con Artists Manipulate You and What You	Strategic Planning
	Can Do About It	
CIO2	Mid-Morning Keynote: The Role of Technology in	Leadership, Governance,
C102	Improving Care and Bending the Cost Curve	Strategic Planning
CIO3	Mid-Afternoon Keynote: Everybody's Talking (and	Leadership, Governance,
C105	Everything!)	Strategic Planning
CIO4	Closing Keynote: What Really Matters at the End of Life	Leadership, Governance,
C10+	closing Reynote: What Really Platters at the End of Elic	Strategic Planning
CS1	Opening Keynote: Strategy is Key: How to Successfully	Cybersecurity and Privacy &
CSI	Defend and Protect	Security
CS2	How Boston Children's Hospital Survived an Attack by	Cybersecurity and Privacy &
C32	Anonymous	Security
CS3	From Plans to Pen Testing and Dealing with the	Cybersecurity and Privacy &
C33	Unexpected	Security
CS4	Building an Integrated Security Function for the	Cybersecurity and Privacy &
	Enterprise	Security

ID	タイトル	トピック分類
665	Healthcare Cybersecurity Transformation for your	Cybersecurity and Privacy &
CS5	Organization: Looking to the Future	Security
666	Closing Keynote: The Road Ahead for Healthcare Sector:	Cybersecurity and Privacy &
CS6	What to Expect	Security
CCC1	Crowing your Career in LIT	Career/Workforce
CSC1	Growing your Career in HIT	Development and Diversity
CSC2	Taming the Career Roller Coaster: Mastering	Career/Workforce
C3C2	Professional Transitions with Confidence	Development and Diversity
CSC3	The Importance of Continuing Professional	Career/Workforce
	Development: A Roadmap for Success	Development and Diversity
CSC4	Keeping Up, Disrupting Yourself, and Getting Ahead: A+	Career/Workforce
	Career Strategies for High-Performing IT Professionals	Development and Diversity
		Health Information
INT1	The Interoperability Roadmap in Practice	Exchange, Interoperability
		and Data Access
	Interoperability Testing and Certification	Health Information
INT2		Exchange, Interoperability
		and Data Access
	Driving Superior Outcomes through Consumer-Facing Interoperability and Data Exchange	Health Information
INT3		Exchange, Interoperability
		and Data Access
	Optionality vs. Constraints Panel, Emerging Standards and Best Practices	Health Information
INT4		Exchange, Interoperability
		and Data Access
	Emerging Services among Health Information Exchange Networks: Towards Sustainability	Health Information
INT5		Exchange, Interoperability
		and Data Access
INT6	Driving Interoperable Data Exchange: Understanding HHS Policies and the Expansion of Exchange Services	Health Information
		Exchange, Interoperability
		and Data Access
		Innovation,
INV1	Precision Medicine for Every One	Entrepreneurship and
		Venture Investment

ID	タイトル	トピック分類
		Innovation,
INV2	How to Wire and Scale Primary Care Innovation	Entrepreneurship and
		Venture Investment
	Direct to Consumous Vistual Cores Integrating New	Innovation,
INV3	Direct-to-Consumer Virtual Care: Integrating New Models and Workflows	Entrepreneurship and
	Models and Workhows	Venture Investment
	Transforming Rig Data into Smart Data for New Care	Innovation,
INV4	Transforming Big Data into Smart Data for New Care  Models	Entrepreneurship and
	Models	Venture Investment
	Canal una origina i Chratagiaa ta Maat Nau Market Domanda	Innovation,
INV5	Consumerism: Strategies to Meet New Market Demands	Entrepreneurship and
	and Rising Expectations	Venture Investment
		Innovation,
INV6	Artificial Intelligence (AI) and the Future of Health Care	Entrepreneurship and
		Venture Investment
KC02	Build an Enterprise Data Warehouse in < 1 Month	Clinical and Business
KC02	Build an Enterprise Data Warehouse in < 1 Month	Intelligence
	Unleash the Power of Little Data	Process Improvement,
KC04		Workflow, Change
		Management
KC05	Unifying Data to Drive Better Decisions & Outcomes	Clinical and Business
	offinying bata to brive better bedisions a outcomes	Intelligence
KC06	Mercy Forecasts Medication Usage with SAP	Clinical and Business
	Piercy Torceases Piedication Usage With SAI	Intelligence
KC07	Using AI to Drive Insights into Your Business	Clinical and Business
	Osing At to Drive Insignts into Tour Business	Intelligence
		Compliance, Risk
KC08	Compliant Sales Automation for Field Agents	Management, and Program
		Integrity
KC09	Chargemaster Sync leading to Revenue Improvement	Clinical and Business
	Chargemaster Sync leading to Revenue Improvement	Intelligence
KC11	Data to Decisions: The Power of Disparate Data Sources	Clinical and Business
	to Solve Challenging Questions	Intelligence
KC12	Agile Analytics: A Hedge Against Uncertainty	Clinical and Business
		Intelligence

ID	タイトル	トピック分類
VC12	The 7 Hebits of a Data Driven Organization	Business of Healthcare and
KC13	The 7 Habits of a Data-Driven Organization	New Payment Models
KC14		Clinical and Business
KC14	Report & Document Data Extraction with Analytics	Intelligence
KC15	Enabling Precision Medicine at Inova Health	Genomics/Precision
	Enabling Precision Predictic de Prova Predicti	Medicine
KC16	Make Your EPIC Data Work For You	Clinical and Business
	- Harte Four El 10 Data Holk Fol Fou	Intelligence
KC17	Creating Digital Networks to Improve Access and	Clinical and Business
	Outcomes	Intelligence
KC18	Consumption billing for on-premises data centers	Leadership, Governance,
		Strategic Planning
KC19	Building a Data Driven Hospital using Medical IoT	Clinical and Business
	Building a Bata Briven Hospital asing Medical 101	Intelligence
KC20	BI for Product Quality and Lower Contract Costs!	Clinical and Business
	51 for Froduct Quality and Lower Contract Costs.	Intelligence
KC22	Leveraging Technology for Financial Patient Engagement	Clinical and Business
		Intelligence
KC23	EHR Prescription Decision Support	Clinical Informatics and
		Clinician Engagement
KC24	Improved Revenue Cycle with POS device messaging	Business of Healthcare and
		New Payment Models
KC25	Why Lose Patients to the Internet?	Consumer and Patient
		Engagement
KC26	An Overview of the HIMSS Revenue Cycle Improvement	Clinical and Business
	Task Force PCP Gap Analysis	Intelligence
MD1	Opening Keynote: Medical Device Cybersecurity:	Cybersecurity and Privacy &
	Overcoming Challenges to Effective Information Sharing	Security
MD2	The National Medical Device Information Sharing	Cybersecurity and Privacy &
	Analysis Organization Initiative	Security
MD3	Medical Device Risk Management and Assessment	Cybersecurity and Privacy &
	Methods	Security
MD4	Vulnerability Information Sharing: Challenges, Methods	Cybersecurity and Privacy &
	and Impact	Security

ID	タイトル	トピック分類
MD5	Cyber Surveillance and Threat Intelligence Sharing	Cybersecurity and Privacy & Security
MDC	Closing Keynote: Medical Device Security and Safety:	Cybersecurity and Privacy &
MD6	The Regulatory Response and Trends	Security
NIT 1	Opening Koungto, Digwystiya Landowskia	Clinical Informatics and
NI1	Opening Keynote: Disruptive Leadership	Clinician Engagement
NI2	Innovation Spotlight	Clinical Informatics and
IN1Z	Innovation Spottignt	Clinician Engagement
NI3	Using Data Science to Influence Population Health	Clinical Informatics and
	Osing Data Science to Innuence Population Fleatin	Clinician Engagement
NI4	Fostering Innovation in your Organization	Clinical Informatics and
1117	Tostering Timovation in Your Organization	Clinician Engagement
NI5	Using Innovation to Advance Interoperability	Clinical Informatics and
	Osing Innovation to Advance Interoperating	Clinician Engagement
NI6	Using The Internet of Healthy Things to Improve Health	Clinical Informatics and
	and Care	Clinician Engagement
PCM1	Opening Keynote: Under Construction: At the	Care Coordination, Culture
	Crossroads of Volume and Value	of Care and Pop Health
PCM2	How Well Do You Know Your Population's Health Risk	Care Coordination, Culture
1 CM2	and How to Manage It?	of Care and Pop Health
PCM3	Do You Know What it Really Costs to Deliver Care? How	Care Coordination, Culture
	to Optimize Value & Outcomes	of Care and Pop Health
PCM4	What is a Standards-based Healthcare Services	Care Coordination, Culture
r Ciri <del>-</del>	Platform, and Why should it Matter to You?1	of Care and Pop Health
	Building an Effective Dashboard: What Does the	Care Coordination, Culture
PCM5	Customer Want? What can Clinical and Business	of Care and Pop Health
	Intelligence Provide?	or care and rop riealth
PCM6	Closing Keynote: The Path Forward - A State Program	Care Coordination, Culture
F CIMO	that Guides At-Risk Patients to Care	of Care and Pop Health
PHY1	A Changing Healthcare Landscape	Leadership, Governance,
L111T		Strategic Planning
DUV2	The Science behind Motivating Change	Clinical Informatics and
PHY2	The Science behind Motivating Change	Clinician Engagement

ID	タイトル	トピック分類
		Health Information
PHY3	The Impact of Interoperability on Patient Populations	Exchange, Interoperability
		and Data Access
DUVA	Dutting CMTOs at the Contour of Cubanass with	Cybersecurity and Privacy &
PHY4	Putting CMIOs at the Center of Cybersecurity	Security
PHY5	Precision Medicine: A New Era of Medicine	Genomics/Precision
	Precision Medicine. A New Eta of Medicine	Medicine
PHY6	Preparing for the Next Horizon of Healthcare	Leadership, Governance,
	Preparing for the Next Horizon of Fleathcare	Strategic Planning
	Opening Keynote: Using Health IT to Demonstrate the	Innovation,
PM1	Value of Precision Medicine	Entrepreneurship and
	value of Freeision Frederic	Venture Investment
		Innovation,
PM2	Is Your Organization Ready for Precision Medicine?	Entrepreneurship and
		Venture Investment
	Health IT for Automated Enterprise-Scale Clinical Trial Matching	Innovation,
PM3		Entrepreneurship and
		Venture Investment
	An IT Solution for Targeted Drug Matching and Evidence Collection	Innovation,
PM4		Entrepreneurship and
		Venture Investment
	Shooting the Moon: IT Infrastructure for Data-Sharing Networks	Innovation,
PM5		Entrepreneurship and
		Venture Investment
	Closing Keynote: Analytics, Data-Sharing, and	Innovation,
PM6	Real-World Evidence for Evaluating Outcomes in	Entrepreneurship and
	Precision Medicine	Venture Investment
PSEP1	Personal Brand Best Practices to Support an HIT Career	Career/Workforce
r JLF1	Journey	Development and Diversity
PSEP10	Developing Innovative EHR Tools to Prevent Lost	Career/Workforce
	Revenue	Development and Diversity
PSEP2	Planting the Seeds of Big Data Through Clinical Decision	Career/Workforce
. 02, 2	Support	Development and Diversity
PSEP3	HIE Expansion in North Dakota Using Medicaid HITECH	Career/Workforce
	90/10 Funding	Development and Diversity

ID	タイトル	トピック分類
PSEP4	Union Date to Daine Clinical Burnting of the Future	Career/Workforce
r 3Lr <del>-</del>	Using Data to Drive Clinical Practice of the Future	Development and Diversity
PSEP5	Continued Access to Hospital Patient Health Record Data	Career/Workforce
FSLFS	in Long Term Care	Development and Diversity
PSEP6	Evaluating the Impact of Interoperability on Healthcare	Career/Workforce
r SLr 0	Outcomes: Pilot Study	Development and Diversity
PSEP7	Immersive Virtual Reality Rehabilitation for Individuals	Career/Workforce
r JLr /	with Spinal Cord Injuries	Development and Diversity
PSEP8	Unique Dutch eHealth Program Executed by all	Career/Workforce
1 321 0	Academic Medical Centers	Development and Diversity
PSEP9	Innovative Incentives to Catalyze Care Quality	Career/Workforce
1 OLI 9	Improvement and Value-Based Health Care Delivery	Development and Diversity
	Automation of Clinical Scores within the Electronic	Process Improvement,
PSP1	Medical Record	Workflow, Change
		Management
PSP10	Preliminary Analysis of Worldwide Usage Patterns in a	Consumer and Patient
1 31 10	Mobile Palliative Care Reference App	Engagement
PSP11	Leaping Forward in Safety & Quality: Leveraging	Quality and Patient Safety
1 31 11	Leapfrog's CPOE Evaluation	Outcomes
PSP12	Improving Sepsis Prediction by Developing Advanced	Quality and Patient Safety
1 31 12	Model	Outcomes
	Northwell Clinical Snapshot: Improving Primary Care	Process Improvement,
PSP13	with Point-of-Care Clinical Quality Dashboard	Workflow, Change
	with Folite-of-care clinical Quality Dashboard	Management
PSP14	Improving the Health of 1.5 Million Children	Care Coordination, Culture
13114	Improving the reaction 1.5 Pillion Children	of Care and Pop Health
	MeRLin (Medical Record TimeLine): Improving EHR	Process Improvement,
PSP2	Clinical Chart Review Through Effective Visualization of	Workflow, Change
	Longitudinal Medical Record Data	Management
PSP3	Assessing the Feasibility of Developing an Inpatient	Care Coordination, Culture
	Telehealth Referral System for Veterans with Poorly	of Care and Pop Health
	Controlled Diabetes	or care and rop ricalar
PSP4	Flexible Health IT Platform for Engaging with At-Risk	Care Coordination, Culture
	Populations	of Care and Pop Health

ID	タイトル	トピック分類
PSP5	Electronic Antimicrobial Stewardship: Reducing	Quality and Patient Safety Outcomes
	Incidence of Drug-Resistant Infections and Associated	
	Costs	
PSP6	The Use of Data to Improve Reminders, Order Checks,	Care Coordination, Culture
	and Alerts in Reproductive-Aged Women	of Care and Pop Health
PSP7	Sexual Orientation and Gender Identity Data Collection	Care Coordination, Culture
	in Electronic Medical Records at a University Medical	
	Center	of Care and Pop Health
PSP8	Achieving Triple Aim with Agile Reporting and  Dashboards	Process Improvement,
		Workflow, Change
	Dastibodius	Management
PSP9	A Mobile App to Improve Appropriate Burn Center	Consumer and Patient
	Utilization: Description and Preliminary Usage	Engagement
QU1	Opening Keynote: CMS Quality Payment Program:	Quality and Patient Safety
Q01	Performance and Reporting Requirements	Outcomes
QU2	Leveraging Health IT to Risk Adjust Patients	Quality and Patient Safety
QU2		Outcomes
QU3	Excelling in MIPS Performance Thresholds - Health	Quality and Patient Safety
QU3	IT-Enabled Diabetes Management Best Practices	Outcomes
QU4	Primary Care's Role in Reducing Unnecessary Hospital	Quality and Patient Safety
	visits and Re-admissions within 30 Days	Outcomes
QU5	Using Health IT to Reduce Hospital Acquired Conditions	Quality and Patient Safety
		Outcomes
QU6	Closing Keynote: Meet Your Quality Requirements, Save	Quality and Patient Safety
Q06	Time, and Earn More with ACEP's Quality Initiatives	Outcomes
WSA	Implementing Healthcare Cyber-Hygiene with the	Cybersecurity and Privacy &
**5/	Updated Critical Security Controls: A SANS Workshop	Security
WSB	Business Intelligence Best Practices: A Strong	Clinical and Business
***************************************	Foundation for Organizational Success	Intelligence
YT1	YourTurn: Integrated Smartphone Apps and their Impacts on Clinical Communication	Process Improvement,
		Workflow, Change
		Management
YT10	YourTurn: Cybersecurity Challenges in Health Care	Cybersecurity and Privacy &
		Security

ID	タイトル	トピック分類
YT2	YourTurn: Bringing Precision Medicine to the Point of	Genomics/Precision
	Care	Medicine
YT3	YourTurn: Data Quality and Integrity	Clinical and Business
		Intelligence
YT4	YourTurn: Identifying and Resolving EHR Usability and	FLID
	Medical Errors	EHRs
YT5		Process Improvement,
	YourTurn: Does your Help Desk Need Help?	Workflow, Change
		Management
YT6	YourTurn: Creating Longitudinal Records Across Multiple	Care Coordination, Culture
	Care Environments	of Care and Pop Health
YT7	YourTurn: Electronic Identification of Palliative Care	Care Coordination, Culture
	Patients	of Care and Pop Health
YT8	YourTurn: The Role of Risk Assessment in Value Based	Business of Healthcare and
110	Purchasing	New Payment Models
	YourTurn: Hospital Staff Education of EMR Rollout and	Process Improvement,
YT9		Workflow, Change
	Changes	Management
	Bringing Interoperable Medication Lists to Consumers	Health IT Public Policy
	CAHIMS Exam Session 1	Career/Workforce
		Development and Diversity
	CAHIMS Exam Session 2	Career/Workforce
		Development and Diversity
	Centers for Disease Control and Prevention Listening	Clinical Informatics and
	Session on Clinical Decision Support	Clinician Engagement
		EHRs
		Health Information
		Exchange, Interoperability
		and Data Access
		IT Infrastructure, HIT Stds
		& Medical Device Integ
		Quality and Patient Safety
		Outcomes
	Comprehensive Primary Care Plus Initiative	Health IT Public Policy

ID	タイトル	トピック分類
	CPHIMS Exam Session 1	Career/Workforce
		Development and Diversity
	CPHIMS Exam Session 2	Career/Workforce
		Development and Diversity
	CPHIMS Exam Session 3	Career/Workforce
		Development and Diversity
	CPHIMS Exam Session 4	Career/Workforce
		Development and Diversity
	Cracking the Code on Secure Clinical Communications:	Connected Health
	How HCA Tackled one of Healthcare's Most Common	Innovation,
	Challenges	Entrepreneurship and
		Venture Investment
		IT Infrastructure, HIT Stds
		& Medical Device Integ
		Process Improvement,
		Workflow, Change
		Management
	Cultivating Health IT Innovation Ecosystems	Health IT Public Policy
	Digital Health, Innovation, and Security	Health IT Public Policy
	Enabling Care Transitions Through Mobility and Extreme	Connected Health
	Customer Service	Innovation,
		Entrepreneurship and
		Venture Investment
		IT Infrastructure, HIT Stds
		& Medical Device Integ
		Process Improvement,
		Workflow, Change
,		Management
	Expanding Access to Care for Kids and Families through	Connected Health
	TeleHealth	Innovation,
		Entrepreneurship and
		Venture Investment
		IT Infrastructure, HIT Stds
		& Medical Device Integ

ID	タイトル	トピック分類
		Process Improvement,
		Workflow, Change
		Management
	HX360 Innovation Leaders Program: A Hero's Journey -	Care Coordination, Culture
	a Healthcare System's Path to Consumer Innovation	of Care and Pop Health
		Connected Health
		Consumer and Patient
		Engagement
		Human Factors, User
		Experience and Design
		Innovation,
		Entrepreneurship and
		Venture Investment
	HX360 Innovation Leaders Program: Behind the	Care Coordination, Culture
	Curtain: An Insider's View of Payer Innovation	of Care and Pop Health
		Connected Health
		Consumer and Patient
		Engagement
		Human Factors, User
		Experience and Design
		Innovation,
		Entrepreneurship and
		Venture Investment
	HX360 Innovation Leaders Program: Betting on	Care Coordination, Culture
	Collaboration for the Future of Health	of Care and Pop Health
		Connected Health
		Consumer and Patient
		Engagement
		Human Factors, User
		Experience and Design
		Innovation,
		Entrepreneurship and
		Venture Investment
	HX360 Innovation Leaders Program: Break	Care Coordination, Culture
		of Care and Pop Health

ID	タイトル	トピック分類
		Care Coordination, Culture
		of Care and Pop Health
		Connected Health
		Connected Health
		Consumer and Patient
		Engagement
		Consumer and Patient
		Engagement
		Human Factors, User
		Experience and Design
		Human Factors, User
		Experience and Design
		Innovation,
		Entrepreneurship and
		Venture Investment
		Innovation,
		Entrepreneurship and
		Venture Investment
	HX360 Innovation Leaders Program: Breaking through	Care Coordination, Culture
	Barriers to Innovation in Health IT	of Care and Pop Health
		Connected Health
		Consumer and Patient
		Engagement
		Human Factors, User
		Experience and Design
		Innovation,
		Entrepreneurship and
		Venture Investment
	HX360 Innovation Leaders Program: Closing Keynote:	Care Coordination, Culture
	Why Cleveland Clinic Developed a Wellness Institute and	of Care and Pop Health
	What is New in Making your RealAge Younger	Connected Health
		Consumer and Patient
		Engagement
		Human Factors, User
		Experience and Design

ID	タイトル	トピック分類
		Innovation,
		Entrepreneurship and
		Venture Investment
	HX360 Innovation Leaders Program: Creating an	Care Coordination, Culture
	Evidence-Based Ecosystem with all Key Stakeholders:	of Care and Pop Health
	Network of Digital Evidence (NODE Health)	Connected Health
		Consumer and Patient
		Engagement
		Human Factors, User
		Experience and Design
		Innovation,
		Entrepreneurship and
		Venture Investment
	HX360 Innovation Leaders Program: Forging Health -	Care Coordination, Culture
	TMC Innovation Institute and AT&T Foundry	of Care and Pop Health
		Connected Health
		Consumer and Patient
		Engagement
		Human Factors, User
		Experience and Design
		Innovation,
		Entrepreneurship and
		Venture Investment
	HX360 Innovation Leaders Program: Innovation in	Care Coordination, Culture
	Traditional Academic Medicine: Harvard Teaching	of Care and Pop Health
	Hospitals	Connected Health
		Consumer and Patient
		Engagement
		Human Factors, User
		Experience and Design
		Innovation,
		Entrepreneurship and
		Venture Investment
	HX360 Innovation Leaders Program: Lunch Break	Care Coordination, Culture
		of Care and Pop Health

ID	タイトル	トピック分類
		Connected Health
		Consumer and Patient
		Engagement
		Human Factors, User
		Experience and Design
		Innovation,
		Entrepreneurship and
		Venture Investment
	HX360 Innovation Leaders Program: Making	Care Coordination, Culture
	Patient-Generated Health Data Work for Physicians	of Care and Pop Health
		Connected Health
		Consumer and Patient
		Engagement
		Human Factors, User
		Experience and Design
		Innovation,
		Entrepreneurship and
		Venture Investment
	HX360 Innovation Leaders Program: New Opportunities	Care Coordination, Culture
	for Care Delivery and Engagement: Ordering the Chaos	of Care and Pop Health
	of Consumerism	Connected Health
		Consumer and Patient
		Engagement
		Human Factors, User
		Experience and Design
		Innovation,
		Entrepreneurship and
		Venture Investment
	HX360 Innovation Leaders Program: Newsmaker	Care Coordination, Culture
	Close-Up: Iora Health	of Care and Pop Health
		Connected Health
		Consumer and Patient
		Engagement
		Human Factors, User
		Experience and Design

ID	タイトル	トピック分類
		Innovation,
		Entrepreneurship and
		Venture Investment
	HX360 Innovation Leaders Program: Opening Keynote:	Care Coordination, Culture
	The Journey to Continuous Health: A Perspective on	of Care and Pop Health
	Population Health Management	Connected Health
		Consumer and Patient
		Engagement
		Human Factors, User
		Experience and Design
		Innovation,
		Entrepreneurship and
		Venture Investment
	HX360 Innovation Leaders Program: Opening Remarks	Care Coordination, Culture
		of Care and Pop Health
		Connected Health
		Consumer and Patient
		Engagement
		Human Factors, User
		Experience and Design
		Innovation,
		Entrepreneurship and
		Venture Investment
	HX360 Innovation Leaders Program: Real-World ACO	Care Coordination, Culture
	Work: A Provider Diary	of Care and Pop Health
		Connected Health
		Consumer and Patient
		Engagement
		Human Factors, User
		Experience and Design
		Innovation,
		Entrepreneurship and
		Venture Investment
	HX360 Innovation Leaders Program: UPMC-Journey to	Care Coordination, Culture
	an Innovation Hub	of Care and Pop Health

ID	タイトル	トピック分類
		Connected Health
		Consumer and Patient
		Engagement
		Human Factors, User
		Experience and Design
		Innovation,
		Entrepreneurship and
		Venture Investment
	HX360 Innovation Leaders Program: What If You Gave a	Connected Health
	Healthcare Innovation Party, and No One Came?	
	HX360 Innovation Leaders: Welcome Remarks	Care Coordination, Culture
		of Care and Pop Health
		Connected Health
		Consumer and Patient
		Engagement
		Human Factors, User
		Experience and Design
		Innovation,
		Entrepreneurship and
		Venture Investment
	HX360 Innovation Program: Innovation Spotlight - Data	Care Coordination, Culture
	Liquidity	of Care and Pop Health
		Connected Health
		Consumer and Patient
		Engagement
		Human Factors, User
		Experience and Design
		Innovation,
		Entrepreneurship and
		Venture Investment
	HX360 Opening Keynote: Scaling Digital Innovation	Care Coordination, Culture
		of Care and Pop Health
		Connected Health
		Consumer and Patient
		Engagement

ID	タイトル	トピック分類
		Human Factors, User
		Experience and Design
		Innovation,
		Entrepreneurship and
		Venture Investment
	Improving Patient Care and Population Health with	Connected Health
	Analytics	Innovation,
		Entrepreneurship and
		Venture Investment
		IT Infrastructure, HIT Stds
		& Medical Device Integ
		Process Improvement,
		Workflow, Change
		Management
	Interoperability Measurement Across the Continuum of	Health IT Public Policy
	Care	
	Making an Impact on Critical Healthcare Public Policy	Health IT Public Policy
	Issues: National and State Initiatives	
	Open Forum - Policy Issues Relevant to Health IT	Health IT Public Policy
	Implementation and Use	
	Safety, Interoperability, and Usability for the Clinical	Health IT Public Policy
·	Community	
	State Advisory Roundtable Exchange - Building	Health IT Public Policy
	Community-Based Solutions to Connect for Public	
	Health	
	The Value of Nursing Informatics in Leadership	Health IT Public Policy
	Trends and Challenges in Consumer Access and Use of	Health IT Public Policy
	Electronic Health Information	
	Understanding MACRA, the MACRA Data Strategy, and	Health IT Public Policy
	Advancing Care Information	
	Venture+ Forum: Break	Connected Health
		Entrepreneurship and
		Venture Investment

ID	タイトル	トピック分類
		Innovation,
		Entrepreneurship and
		Venture Investment
	Venture+ Forum: Company Presentations I	Connected Health
		Entrepreneurship and
		Venture Investment
		Innovation,
		Entrepreneurship and
		Venture Investment
	Venture+ Forum: Company Presentations II	Connected Health
		Entrepreneurship and
		Venture Investment
		Innovation,
		Entrepreneurship and
		Venture Investment
	Venture+ Forum: Concluding Remarks	Connected Health
		Entrepreneurship and
		Venture Investment
		Innovation,
		Entrepreneurship and
		Venture Investment
	Venture+ Forum: Healthcare Fundraising in 2017	Connected Health
		Entrepreneurship and
		Venture Investment
		Innovation,
		Entrepreneurship and
		Venture Investment
	Venture+ Forum: Judges Introduction	Connected Health
		Entrepreneurship and
		Venture Investment
		Innovation,
		Entrepreneurship and
		Venture Investment
	Venture+ Forum: Networking Break	Connected Health

ID	タイトル	トピック分類
		Entrepreneurship and
		Venture Investment
		Innovation,
		Entrepreneurship and
		Venture Investment
	Venture+ Forum: Networking Lunch	Connected Health
		Entrepreneurship and
		Venture Investment
		Innovation,
		Entrepreneurship and
		Venture Investment
	Venture+ Forum: Networking Reception	Connected Health
		Entrepreneurship and
		Venture Investment
		Innovation,
		Entrepreneurship and
		Venture Investment
	Venture+ Forum: Provider Perspectives on Technology	Connected Health
	Adoption	Entrepreneurship and
		Venture Investment
		Innovation,
		Entrepreneurship and
		Venture Investment
	Venture+ Forum: Startup Health Insights - 2016	Connected Health
	Investment Report	Entrepreneurship and
		Venture Investment
		Innovation,
		Entrepreneurship and
		Venture Investment
	Venture+ Forum: The Medical Capital Innovation	Connected Health
	Competition - A Call For Big Ideas	Entrepreneurship and
		Venture Investment
		Innovation,
		Entrepreneurship and
		Venture Investment

ID	タイトル	トピック分類
	Venture+ Forum: Welcome Remarks	Connected Health
		Entrepreneurship and
		Venture Investment
		Innovation,
		Entrepreneurship and
		Venture Investment
	Venture+ Forum: Where Are They Now?	Connected Health
		Entrepreneurship and
		Venture Investment
		Innovation,
		Entrepreneurship and
		Venture Investment
	Welcome	Connected Health
		Innovation,
		Entrepreneurship and
		Venture Investment
		IT Infrastructure, HIT Stds
		& Medical Device Integ
		Process Improvement,
		Workflow, Change
		Management

## 4.2 表 2 トピック分類別

ID	タイトル	トピック分類
BH1	Opening Keynote: Understanding Core Competencies	Business of Healthcare and
	Required to Succeed in a Value-Based World	New Payment Models
BH2	Risk-Sharing in a Value-Based World	Business of Healthcare and
		New Payment Models
ВН3	Designing and Implementing Successful Alternative	Business of Healthcare and
	Payment Models	New Payment Models
BH4	Achieving the 3rd Leg of the Triple Aim: Cost Savings	Business of Healthcare and
		New Payment Models
BH5	Intermountain Health: A Model for Success	Business of Healthcare and
		New Payment Models
ВН6	Closing Keynote: Medicare-Related Alternative Payment	Business of Healthcare and
	Models - An Update	New Payment Models
64	Advancing Value-Based Models Through Collaboration	Business of Healthcare and
		New Payment Models
94	Enabling Provider-Payer Collaboration: An Essential	Business of Healthcare and
	Conversation	New Payment Models
KC13	The 7 Habits of a Data-Driven Organization	Business of Healthcare and
		New Payment Models
YT8	YourTurn: The Role of Risk Assessment in Value Based	Business of Healthcare and
	Purchasing	New Payment Models
173	Overview of MIPS for Small, Rural, and Underserved	Business of Healthcare and
	Practices	New Payment Models
KC24	Improved Revenue Cycle with POS device messaging	Business of Healthcare and
		New Payment Models
231	What's All the Fuss About Bundled Payments?	Business of Healthcare and
		New Payment Models
PSP14	Improving the Health of 1.5 Million Children	Care Coordination, Culture
		of Care and Pop Health
PSP3	Assessing the Feasibility of Developing an Inpatient	Care Coordination, Culture
	Telehealth Referral System for Veterans with Poorly	of Care and Pop Health
	Controlled Diabetes	
PSP4	Flexible Health IT Platform for Engaging with At-Risk	Care Coordination, Culture
	Populations	of Care and Pop Health

ID	タイトル	トピック分類
PSP6	The Use of Data to Improve Reminders, Order Checks,	Care Coordination, Culture
	and Alerts in Reproductive-Aged Women	of Care and Pop Health
PSP7	Sexual Orientation and Gender Identity Data Collection in	Care Coordination, Culture
	Electronic Medical Records at a University Medical Center	of Care and Pop Health
PCM1	Opening Keynote: Under Construction: At the Crossroads	Care Coordination, Culture
	of Volume and Value	of Care and Pop Health
PCM2	How Well Do You Know Your Population's Health Risk and	Care Coordination, Culture
	How to Manage It?	of Care and Pop Health
РСМ3	Do You Know What it Really Costs to Deliver Care? How to	Care Coordination, Culture
	Optimize Value & Outcomes	of Care and Pop Health
PCM4	What is a Standards-based Healthcare Services Platform,	Care Coordination, Culture
	and Why should it Matter to You?1	of Care and Pop Health
PCM5	Building an Effective Dashboard: What Does the	Care Coordination, Culture
	Customer Want? What can Clinical and Business	of Care and Pop Health
	Intelligence Provide?	
PCM6	Closing Keynote: The Path Forward - A State Program	Care Coordination, Culture
	that Guides At-Risk Patients to Care	of Care and Pop Health
2	Data-Driven Medicine: Actionable Insights from Patient	Care Coordination, Culture
	Data	of Care and Pop Health
	HX360 Innovation Leaders: Welcome Remarks	Care Coordination, Culture
		of Care and Pop Health
	HX360 Opening Keynote: Scaling Digital Innovation	Care Coordination, Culture
		of Care and Pop Health
	HX360 Innovation Leaders Program: Betting on	Care Coordination, Culture
	Collaboration for the Future of Health	of Care and Pop Health
301	A Universal Operating Model for Population Health	Care Coordination, Culture
	Management	of Care and Pop Health
302	Prioritizing Care Coordination for Patients Who Need It	Care Coordination, Culture
	Most	of Care and Pop Health
	HX360 Innovation Leaders Program: New Opportunities	Care Coordination, Culture
	for Care Delivery and Engagement: Ordering the Chaos of	of Care and Pop Health
	Consumerism	
	HX360 Innovation Leaders Program: Breaking through	Care Coordination, Culture
	Barriers to Innovation in Health IT	of Care and Pop Health

ID	タイトル	トピック分類
	HX360 Innovation Leaders Program: Innovation in	Care Coordination, Culture
	Traditional Academic Medicine: Harvard Teaching	of Care and Pop Health
	Hospitals	
	HX360 Innovation Leaders Program: Break	Care Coordination, Culture
		of Care and Pop Health
	HX360 Innovation Leaders Program: A Hero's Journey - a	Care Coordination, Culture
	Healthcare System's Path to Consumer Innovation	of Care and Pop Health
65	Post-Acute Integration: Lowering Risk, Lowering Cost	Care Coordination, Culture
		of Care and Pop Health
79	Evolving Stakeholder Collaboration in Population Health	Care Coordination, Culture
		of Care and Pop Health
	HX360 Innovation Leaders Program: Opening Remarks	Care Coordination, Culture
		of Care and Pop Health
	HX360 Innovation Leaders Program: Opening Keynote:	Care Coordination, Culture
	The Journey to Continuous Health: A Perspective on	of Care and Pop Health
	Population Health Management	
	HX360 Innovation Leaders Program: Real-World ACO	Care Coordination, Culture
	Work: A Provider Diary	of Care and Pop Health
95	21st Century Success in Transitions of Care	Care Coordination, Culture
	Communication	of Care and Pop Health
98	Childhood Obesity and How to Address It	Care Coordination, Culture
		of Care and Pop Health
YT6	YourTurn: Creating Longitudinal Records Across Multiple	Care Coordination, Culture
	Care Environments	of Care and Pop Health
	HX360 Innovation Leaders Program: Creating an	Care Coordination, Culture
	Evidence-Based Ecosystem with all Key Stakeholders:	of Care and Pop Health
	Network of Digital Evidence (NODE Health)	
	HX360 Innovation Leaders Program: Lunch Break	Care Coordination, Culture
		of Care and Pop Health
107	The Power of the Consumer-based Healthcare Approach	Care Coordination, Culture
		of Care and Pop Health
307	Electronic Consultations to Achieve the "Quadruple Aim"	Care Coordination, Culture
,		of Care and Pop Health
YT7	YourTurn: Electronic Identification of Palliative Care	Care Coordination, Culture
	Patients	of Care and Pop Health

ID	タイトル	トピック分類
	HX360 Innovation Leaders Program: Newsmaker	Care Coordination, Culture
	Close-Up: Iora Health	of Care and Pop Health
	HX360 Innovation Leaders Program: UPMC-Journey to an	Care Coordination, Culture
	Innovation Hub	of Care and Pop Health
	HX360 Innovation Leaders Program: Break	Care Coordination, Culture
		of Care and Pop Health
125	Senior Care Trending: Tech Case Study for Population	Care Coordination, Culture
	Health	of Care and Pop Health
	HX360 Innovation Program: Innovation Spotlight - Data	Care Coordination, Culture
	Liquidity	of Care and Pop Health
	HX360 Innovation Leaders Program: Behind the Curtain:	Care Coordination, Culture
	An Insider's View of Payer Innovation	of Care and Pop Health
	HX360 Innovation Leaders Program: Forging Health -	Care Coordination, Culture
	TMC Innovation Institute and AT&T Foundry	of Care and Pop Health
	HX360 Innovation Leaders Program: Making	Care Coordination, Culture
	Patient-Generated Health Data Work for Physicians	of Care and Pop Health
	HX360 Innovation Leaders Program: Closing Keynote:	Care Coordination, Culture
	Why Cleveland Clinic Developed a Wellness Institute and	of Care and Pop Health
	What is New in Making your RealAge Younger	
309	Benefits of Tele-ICU Management of ICU Boarders in the	Care Coordination, Culture
	ED	of Care and Pop Health
154	Maximizing Behavioral Health Care Delivery: Reviewing	Care Coordination, Culture
	Real World Challenges and Opportunities	of Care and Pop Health
196	IT-Enabling Population Health: A Journey, Not a	Care Coordination, Culture
	Destination	of Care and Pop Health
	CAHIMS Exam Session 1	Career/Workforce
		Development and Diversity
CSC1	Growing your Career in HIT	Career/Workforce
		Development and Diversity
PSEP1	Personal Brand Best Practices to Support an HIT Career	Career/Workforce
	Journey	Development and Diversity
PSEP1	Developing Innovative EHR Tools to Prevent Lost Revenue	Career/Workforce
0		Development and Diversity
PSEP2	Planting the Seeds of Big Data Through Clinical Decision	Career/Workforce
	Support	Development and Diversity

ID	タイトル	トピック分類
PSEP3	HIE Expansion in North Dakota Using Medicaid HITECH	Career/Workforce
	90/10 Funding	Development and Diversity
PSEP4	Using Data to Drive Clinical Practice of the Future	Career/Workforce
		Development and Diversity
PSEP5	Continued Access to Hospital Patient Health Record Data	Career/Workforce
	in Long Term Care	Development and Diversity
PSEP6	Evaluating the Impact of Interoperability on Healthcare	Career/Workforce
	Outcomes: Pilot Study	Development and Diversity
PSEP7	Immersive Virtual Reality Rehabilitation for Individuals	Career/Workforce
	with Spinal Cord Injuries	Development and Diversity
PSEP8	Unique Dutch eHealth Program Executed by all Academic	Career/Workforce
	Medical Centers	Development and Diversity
PSEP9	Innovative Incentives to Catalyze Care Quality	Career/Workforce
	Improvement and Value-Based Health Care Delivery	Development and Diversity
CSC2	Taming the Career Roller Coaster: Mastering Professional	Career/Workforce
	Transitions with Confidence	Development and Diversity
	CPHIMS Exam Session 1	Career/Workforce
		Development and Diversity
CSC3	The Importance of Continuing Professional Development:	Career/Workforce
	A Roadmap for Success	Development and Diversity
CSC4	Keeping Up, Disrupting Yourself, and Getting Ahead: A+	Career/Workforce
	Career Strategies for High-Performing IT Professionals	Development and Diversity
	CPHIMS Exam Session 2	Career/Workforce
		Development and Diversity
	CPHIMS Exam Session 3	Career/Workforce
		Development and Diversity
	CPHIMS Exam Session 4	Career/Workforce
		Development and Diversity
172	Developing Health IT Leaders: A Statewide Collaboration	Career/Workforce
		Development and Diversity
	CAHIMS Exam Session 2	Career/Workforce
,		Development and Diversity
WSB	Business Intelligence Best Practices: A Strong Foundation	Clinical and Business
	for Organizational Success	Intelligence

ID	タイトル	トピック分類
4	Using Social Determinants of Health to Power Risk	Clinical and Business
	Contracts	Intelligence
KC02	Build an Enterprise Data Warehouse in < 1 Month	Clinical and Business
		Intelligence
KC05	Unifying Data to Drive Better Decisions & Outcomes	Clinical and Business
		Intelligence
KC06	Mercy Forecasts Medication Usage with SAP	Clinical and Business
		Intelligence
KC07	Using AI to Drive Insights into Your Business	Clinical and Business
		Intelligence
YT3	YourTurn: Data Quality and Integrity	Clinical and Business
		Intelligence
KC09	Chargemaster Sync leading to Revenue Improvement	Clinical and Business
		Intelligence
62	Analytics-Driven Evidence Based Care at Providence	Clinical and Business
	Health	Intelligence
KC11	Data to Decisions: The Power of Disparate Data Sources	Clinical and Business
	to Solve Challenging Questions	Intelligence
KC12	Agile Analytics: A Hedge Against Uncertainty	Clinical and Business
		Intelligence
KC14	Report & Document Data Extraction with Analytics	Clinical and Business
,		Intelligence
KC16	Make Your EPIC Data Work For You	Clinical and Business
,		Intelligence
KC17	Creating Digital Networks to Improve Access and	Clinical and Business
,	Outcomes	Intelligence
KC19	Building a Data Driven Hospital using Medical IoT	Clinical and Business
,		Intelligence
KC20	BI for Product Quality and Lower Contract Costs!	Clinical and Business
		Intelligence
KC22	Leveraging Technology for Financial Patient Engagement	Clinical and Business
		Intelligence
171	Semantic Data Analysis for Interoperability	Clinical and Business
		Intelligence

ID	タイトル	トピック分類
KC26	An Overview of the HIMSS Revenue Cycle Improvement	Clinical and Business
	Task Force PCP Gap Analysis	Intelligence
NI1	Opening Keynote: Disruptive Leadership	Clinical Informatics and
		Clinician Engagement
NI2	Innovation Spotlight	Clinical Informatics and
		Clinician Engagement
PHY2	The Science behind Motivating Change	Clinical Informatics and
		Clinician Engagement
NI3	Using Data Science to Influence Population Health	Clinical Informatics and
		Clinician Engagement
NI4	Fostering Innovation in your Organization	Clinical Informatics and
		Clinician Engagement
NI5	Using Innovation to Advance Interoperability	Clinical Informatics and
		Clinician Engagement
NI6	Using The Internet of Healthy Things to Improve Health	Clinical Informatics and
	and Care	Clinician Engagement
6	CMS: Delivery System Reform	Clinical Informatics and
		Clinician Engagement
81	CMS Quality Payment Program Overview	Clinical Informatics and
		Clinician Engagement
111	MIPS: Advancing Care Information and Improvement	Clinical Informatics and
	Activities	Clinician Engagement
	Centers for Disease Control and Prevention Listening	Clinical Informatics and
	Session on Clinical Decision Support	Clinician Engagement
143	MIPS: Quality and Cost	Clinical Informatics and
		Clinician Engagement
KC23	EHR Prescription Decision Support	Clinical Informatics and
		Clinician Engagement
312	Role of HIT Vendors in Promoting Safe Use of Biosimilars	Clinical Informatics and
		Clinician Engagement
32	Removing Barriers from Migrating to the Hybrid Cloud	Compliance, Risk
		Management, and Program
		Integrity

ID	タイトル	トピック分類
KC08	Compliant Sales Automation for Field Agents	Compliance, Risk
		Management, and Program
		Integrity
	Venture+ Forum: Welcome Remarks	Connected Health
	Venture+ Forum: Startup Health Insights – 2016	Connected Health
	Investment Report	
	Venture+ Forum: Healthcare Fundraising in 2017	Connected Health
	Venture+ Forum: Break	Connected Health
	Venture+ Forum: Judges Introduction	Connected Health
	Venture+ Forum: Company Presentations I	Connected Health
	Venture+ Forum: Networking Lunch	Connected Health
	Venture+ Forum: The Medical Capital Innovation	Connected Health
	Competition - A Call For Big Ideas	
	Venture+ Forum: Where Are They Now?	Connected Health
	Venture+ Forum: Company Presentations II	Connected Health
	Venture+ Forum: Networking Break	Connected Health
	Venture+ Forum: Provider Perspectives on Technology	Connected Health
	Adoption	
	Venture+ Forum: Concluding Remarks	Connected Health
	Venture+ Forum: Networking Reception	Connected Health
	HX360 Innovation Leaders: Welcome Remarks	Connected Health
	HX360 Opening Keynote: Scaling Digital Innovation	Connected Health
	HX360 Innovation Leaders Program: Betting on	Connected Health
	Collaboration for the Future of Health	
	HX360 Innovation Leaders Program: What If You Gave a	Connected Health
	Healthcare Innovation Party, and No One Came?	
	HX360 Innovation Leaders Program: New Opportunities	Connected Health
	for Care Delivery and Engagement: Ordering the Chaos of	
	Consumerism	
	HX360 Innovation Leaders Program: Breaking through	Connected Health
	Barriers to Innovation in Health IT	
	HX360 Innovation Leaders Program: Innovation in	Connected Health
	Traditional Academic Medicine: Harvard Teaching	
<u> </u>	Hospitals	

ID	タイトル	トピック分類
	HX360 Innovation Leaders Program: Break	Connected Health
	HX360 Innovation Leaders Program: A Hero's Journey - a	Connected Health
	Healthcare System's Path to Consumer Innovation	
	Welcome	Connected Health
	Cracking the Code on Secure Clinical Communications:	Connected Health
	How HCA Tackled one of Healthcare's Most Common	
	Challenges	
	HX360 Innovation Leaders Program: Opening Remarks	Connected Health
	HX360 Innovation Leaders Program: Opening Keynote:	Connected Health
	The Journey to Continuous Health: A Perspective on	
	Population Health Management	
	Expanding Access to Care for Kids and Families through	Connected Health
,	TeleHealth	
	HX360 Innovation Leaders Program: Real-World ACO	Connected Health
	Work: A Provider Diary	
99	Improving Outcomes, Efficiencies, and Engagement with	Connected Health
	PGHD	
	HX360 Innovation Leaders Program: Creating an	Connected Health
	Evidence-Based Ecosystem with all Key Stakeholders:	
	Network of Digital Evidence (NODE Health)	
	HX360 Innovation Leaders Program: Lunch Break	Connected Health
	Enabling Care Transitions Through Mobility and Extreme	Connected Health
	Customer Service	
	HX360 Innovation Leaders Program: Newsmaker	Connected Health
	Close-Up: Iora Health	
	Improving Patient Care and Population Health with	Connected Health
	Analytics	
	HX360 Innovation Leaders Program: UPMC-Journey to an	Connected Health
	Innovation Hub	
	HX360 Innovation Leaders Program: Break	Connected Health
123	Mobile Innovations and Telehealth in Emergency Care	Connected Health
	HX360 Innovation Program: Innovation Spotlight - Data	Connected Health
	Liquidity	
	HX360 Innovation Leaders Program: Behind the Curtain:	Connected Health
	An Insider's View of Payer Innovation	

ID	タイトル	トピック分類
	HX360 Innovation Leaders Program: Forging Health -	Connected Health
	TMC Innovation Institute and AT&T Foundry	
	HX360 Innovation Leaders Program: Making	Connected Health
	Patient-Generated Health Data Work for Physicians	
	HX360 Innovation Leaders Program: Closing Keynote:	Connected Health
	Why Cleveland Clinic Developed a Wellness Institute and	
	What is New in Making your RealAge Younger	
184	Bridging the Paper Chasm in Healthcare Communications	Connected Health
192	RPM: Is It All It Is Cracked Up to Be?	Connected Health
202	Pursuing Unlimited Mobile Opportunities with Bounded	Connected Health
	Resources	
313	State Medicaid Agency Interoperability	Connected Health
PSP10	Preliminary Analysis of Worldwide Usage Patterns in a	Consumer and Patient
	Mobile Palliative Care Reference App	Engagement
PSP9	A Mobile App to Improve Appropriate Burn Center	Consumer and Patient
	Utilization: Description and Preliminary Usage	Engagement
	HX360 Innovation Leaders: Welcome Remarks	Consumer and Patient
		Engagement
	HX360 Opening Keynote: Scaling Digital Innovation	Consumer and Patient
		Engagement
	HX360 Innovation Leaders Program: Betting on	Consumer and Patient
	Collaboration for the Future of Health	Engagement
17	Can IT Really Save Lives?	Consumer and Patient
		Engagement
	HX360 Innovation Leaders Program: New Opportunities	Consumer and Patient
	for Care Delivery and Engagement: Ordering the Chaos of	Engagement
	Consumerism	
	HX360 Innovation Leaders Program: Breaking through	Consumer and Patient
	Barriers to Innovation in Health IT	Engagement
	HX360 Innovation Leaders Program: Innovation in	Consumer and Patient
	Traditional Academic Medicine: Harvard Teaching	Engagement
	Hospitals	
	HX360 Innovation Leaders Program: Break	Consumer and Patient
		Engagement

ID	タイトル	トピック分類
	HX360 Innovation Leaders Program: A Hero's Journey - a	Consumer and Patient
	Healthcare System's Path to Consumer Innovation	Engagement
69	Social Health IT – How Digital Tech Can Boost the Social	Consumer and Patient
	Determinants of Health	Engagement
84	Importance of Narrative: Open Notes, Patient Stories,	Consumer and Patient
	Human Connection	Engagement
	HX360 Innovation Leaders Program: Opening Remarks	Consumer and Patient
,		Engagement
	HX360 Innovation Leaders Program: Opening Keynote:	Consumer and Patient
	The Journey to Continuous Health: A Perspective on	Engagement
	Population Health Management	
	HX360 Innovation Leaders Program: Real-World ACO	Consumer and Patient
	Work: A Provider Diary	Engagement
	HX360 Innovation Leaders Program: Creating an	Consumer and Patient
	Evidence-Based Ecosystem with all Key Stakeholders:	Engagement
	Network of Digital Evidence (NODE Health)	
	HX360 Innovation Leaders Program: Lunch Break	Consumer and Patient
		Engagement
	HX360 Innovation Leaders Program: Newsmaker	Consumer and Patient
	Close-Up: Iora Health	Engagement
	HX360 Innovation Leaders Program: UPMC-Journey to an	Consumer and Patient
	Innovation Hub	Engagement
	HX360 Innovation Leaders Program: Break	Consumer and Patient
		Engagement
308	Don't You Know Me? Interoperability: A Patient Narrative	Consumer and Patient
		Engagement
	HX360 Innovation Program: Innovation Spotlight - Data	Consumer and Patient
	Liquidity	Engagement
	HX360 Innovation Leaders Program: Behind the Curtain:	Consumer and Patient
	An Insider's View of Payer Innovation	Engagement
	HX360 Innovation Leaders Program: Forging Health -	Consumer and Patient
	TMC Innovation Institute and AT&T Foundry	Engagement
	HX360 Innovation Leaders Program: Making	Consumer and Patient
	Patient-Generated Health Data Work for Physicians	Engagement

ID	タイトル	トピック分類
	HX360 Innovation Leaders Program: Closing Keynote:	Consumer and Patient
	Why Cleveland Clinic Developed a Wellness Institute and	Engagement
	What is New in Making your RealAge Younger	
139	Entering the Conversational Tech Era: Understanding	Consumer and Patient
	What's Hype vs. What's Possible	Engagement
KC25	Why Lose Patients to the Internet?	Consumer and Patient
		Engagement
208	Portal Use Factors - The Keys to Patient Portal Adoption	Consumer and Patient
		Engagement
WSA	Implementing Healthcare Cyber-Hygiene with the	Cybersecurity and Privacy &
	Updated Critical Security Controls: A SANS Workshop	Security
CS1	Opening Keynote: Strategy is Key: How to Successfully	Cybersecurity and Privacy &
	Defend and Protect	Security
MD1	Opening Keynote: Medical Device Cybersecurity:	Cybersecurity and Privacy &
	Overcoming Challenges to Effective Information Sharing	Security
CS2	How Boston Children's Hospital Survived an Attack by	Cybersecurity and Privacy &
	Anonymous	Security
MD2	The National Medical Device Information Sharing Analysis	Cybersecurity and Privacy &
	Organization Initiative	Security
CS3	From Plans to Pen Testing and Dealing with the	Cybersecurity and Privacy &
	Unexpected	Security
MD3	Medical Device Risk Management and Assessment	Cybersecurity and Privacy &
	Methods	Security
CS4	Building an Integrated Security Function for the	Cybersecurity and Privacy &
	Enterprise	Security
MD4	Vulnerability Information Sharing: Challenges, Methods	Cybersecurity and Privacy &
	and Impact	Security
PHY4	Putting CMIOs at the Center of Cybersecurity	Cybersecurity and Privacy &
		Security
CS5	Healthcare Cybersecurity Transformation for your	Cybersecurity and Privacy &
	Organization: Looking to the Future	Security
MD5	Cyber Surveillance and Threat Intelligence Sharing	Cybersecurity and Privacy &
		Security
CS6	Closing Keynote: The Road Ahead for Healthcare Sector:	Cybersecurity and Privacy &
	What to Expect	Security

ID	タイトル	トピック分類
MD6	Closing Keynote: Medical Device Security and Safety: The	Cybersecurity and Privacy &
	Regulatory Response and Trends	Security
9	HIPAA Privacy, Security - Lessons from 2016 and What's	Cybersecurity and Privacy &
	Next in 2017	Security
303	Engaging Executives and Boards in Cybersecurity	Cybersecurity and Privacy &
		Security
47	Protecting PHI in the Cloud	Cybersecurity and Privacy &
		Security
304	Securing the Next-Generation Healthcare Enterprise	Cybersecurity and Privacy &
		Security
122	Avoiding a Sophisticated, Targeted Breach: Critical	Cybersecurity and Privacy &
	Guidance for Healthcare Organizations	Security
148	Cybersecurity: Decisions, Habits, Hygiene	Cybersecurity and Privacy &
		Security
188	Securing Medical Devices and the Internet of Things (IoT)	Cybersecurity and Privacy &
,		Security
YT10	YourTurn: Cybersecurity Challenges in Health Care	Cybersecurity and Privacy &
,		Security
199	Insider Threat - Today, Tomorrow, and Beyond $\cdots$	Cybersecurity and Privacy &
		Security
YT4	YourTurn: Identifying and Resolving EHR Usability and	EHRs
	Medical Errors	
	Centers for Disease Control and Prevention Listening	EHRs
	Session on Clinical Decision Support	
	Venture+ Forum: Welcome Remarks	Entrepreneurship and
		Venture Investment
	Venture+ Forum: Startup Health Insights – 2016	Entrepreneurship and
	Investment Report	Venture Investment
	Venture+ Forum: Healthcare Fundraising in 2017	Entrepreneurship and
		Venture Investment
	Venture+ Forum: Break	Entrepreneurship and
		Venture Investment
	Venture+ Forum: Judges Introduction	Entrepreneurship and
		Venture Investment

ID	タイトル	トピック分類
	Venture+ Forum: Company Presentations I	Entrepreneurship and
		Venture Investment
	Venture+ Forum: Networking Lunch	Entrepreneurship and
		Venture Investment
	Venture+ Forum: The Medical Capital Innovation	Entrepreneurship and
	Competition - A Call For Big Ideas	Venture Investment
	Venture+ Forum: Where Are They Now?	Entrepreneurship and
		Venture Investment
	Venture+ Forum: Company Presentations II	Entrepreneurship and
		Venture Investment
	Venture+ Forum: Networking Break	Entrepreneurship and
		Venture Investment
	Venture+ Forum: Provider Perspectives on Technology	Entrepreneurship and
	Adoption	Venture Investment
	Venture+ Forum: Concluding Remarks	Entrepreneurship and
		Venture Investment
	Venture+ Forum: Networking Reception	Entrepreneurship and
		Venture Investment
PHY5	Precision Medicine: A New Era of Medicine	Genomics/Precision
		Medicine
YT2	YourTurn: Bringing Precision Medicine to the Point of Care	Genomics/Precision
		Medicine
KC15	Enabling Precision Medicine at Inova Health	Genomics/Precision
		Medicine
INT1	The Interoperability Roadmap in Practice	Health Information
		Exchange, Interoperability
		and Data Access
INT2	Interoperability Testing and Certification	Health Information
		Exchange, Interoperability
		and Data Access
INT3	Driving Superior Outcomes through Consumer-Facing	Health Information
	Interoperability and Data Exchange	Exchange, Interoperability
		and Data Access

ID	タイトル	トピック分類
PHY3	The Impact of Interoperability on Patient Populations	Health Information
		Exchange, Interoperability
		and Data Access
INT4	Optionality vs. Constraints Panel, Emerging Standards	Health Information
	and Best Practices	Exchange, Interoperability
		and Data Access
INT5	Emerging Services among Health Information Exchange	Health Information
	Networks: Towards Sustainability	Exchange, Interoperability
		and Data Access
INT6	Driving Interoperable Data Exchange: Understanding HHS	Health Information
	Policies and the Expansion of Exchange Services	Exchange, Interoperability
		and Data Access
300	Emerging Impacts of Artificial Intelligence on Healthcare	Health Information
	IT	Exchange, Interoperability
		and Data Access
21	Office of the National Coordinator for Health IT (ONC)	Health Information
	Town Hall	Exchange, Interoperability
		and Data Access
39	Emerging Infectious Diseases, Clinical Decision Support,	Health Information
	and Electronic Health Records Meaningful Use	Exchange, Interoperability
		and Data Access
51	Digital Health Platform	Health Information
		Exchange, Interoperability
		and Data Access
66	Office of the National Coordinator for Health IT (ONC)	Health Information
	Health IT Policy Update	Exchange, Interoperability
		and Data Access
86	Overcome Challenges/Obstacles to Achieving	Health Information
	Interoperability	Exchange, Interoperability
		and Data Access
96	Standards and Technology Updates from ONC	Health Information
		Exchange, Interoperability
		and Data Access

ID	タイトル	トピック分類
	Centers for Disease Control and Prevention Listening	Health Information
	Session on Clinical Decision Support	Exchange, Interoperability
		and Data Access
158	Efforts to Assist Providers and Patients In Using Health	Health Information
	IT for High Quality Care	Exchange, Interoperability
		and Data Access
169	Healthcare Consumerism: Understand the Person Behind	Health Information
	the Patient	Exchange, Interoperability
		and Data Access
314	Interoperability Matters: Impact on Mammography	Health Information
	Outcomes	Exchange, Interoperability
		and Data Access
236	MACRA Prep in Underserved Populations with	Health Information
	Data-Centric HIE	Exchange, Interoperability
		and Data Access
	Bringing Interoperable Medication Lists to Consumers	Health IT Public Policy
	Interoperability Measurement Across the Continuum of	Health IT Public Policy
	Care	
	Safety, Interoperability, and Usability for the Clinical	Health IT Public Policy
	Community	
	Making an Impact on Critical Healthcare Public Policy	Health IT Public Policy
	Issues: National and State Initiatives	
	Open Forum - Policy Issues Relevant to Health IT	Health IT Public Policy
	Implementation and Use	
	State Advisory Roundtable Exchange - Building	Health IT Public Policy
	Community-Based Solutions to Connect for Public Health	
	Cultivating Health IT Innovation Ecosystems	Health IT Public Policy
	The Value of Nursing Informatics in Leadership	Health IT Public Policy
	Trends and Challenges in Consumer Access and Use of	Health IT Public Policy
	Electronic Health Information	
	Digital Health, Innovation, and Security	Health IT Public Policy
	Comprehensive Primary Care Plus Initiative	Health IT Public Policy
	Understanding MACRA, the MACRA Data Strategy, and	Health IT Public Policy
	Advancing Care Information	

ID	タイトル	トピック分類
10	How Healthcare and Other Industries Create Delightful	Human Factors, User
	Experiences	Experience and Design
	HX360 Innovation Leaders: Welcome Remarks	Human Factors, User
		Experience and Design
	HX360 Opening Keynote: Scaling Digital Innovation	Human Factors, User
		Experience and Design
	HX360 Innovation Leaders Program: Betting on	Human Factors, User
)=====================================	Collaboration for the Future of Health	Experience and Design
25	Demanding a Delightful Care Team Experience	Human Factors, User
		Experience and Design
40	Demanding a Delightful Care Experience for Patients	Human Factors, User
)=====================================		Experience and Design
	HX360 Innovation Leaders Program: New Opportunities	Human Factors, User
	for Care Delivery and Engagement: Ordering the Chaos of	Experience and Design
	Consumerism	
	HX360 Innovation Leaders Program: Breaking through	Human Factors, User
,	Barriers to Innovation in Health IT	Experience and Design
	HX360 Innovation Leaders Program: Innovation in	Human Factors, User
	Traditional Academic Medicine: Harvard Teaching	Experience and Design
,	Hospitals	
	HX360 Innovation Leaders Program: Break	Human Factors, User
		Experience and Design
	HX360 Innovation Leaders Program: A Hero's Journey - a	Human Factors, User
	Healthcare System's Path to Consumer Innovation	Experience and Design
	HX360 Innovation Leaders Program: Opening Remarks	Human Factors, User
,		Experience and Design
	HX360 Innovation Leaders Program: Opening Keynote:	Human Factors, User
	The Journey to Continuous Health: A Perspective on	Experience and Design
	Population Health Management	
	HX360 Innovation Leaders Program: Real-World ACO	Human Factors, User
	Work: A Provider Diary	Experience and Design
	HX360 Innovation Leaders Program: Creating an	Human Factors, User
	Evidence-Based Ecosystem with all Key Stakeholders:	Experience and Design
	Network of Digital Evidence (NODE Health)	

ID	タイトル	トピック分類
	HX360 Innovation Leaders Program: Lunch Break	Human Factors, User
		Experience and Design
	HX360 Innovation Leaders Program: Newsmaker	Human Factors, User
	Close-Up: Iora Health	Experience and Design
	HX360 Innovation Leaders Program: UPMC-Journey to an	Human Factors, User
	Innovation Hub	Experience and Design
	HX360 Innovation Leaders Program: Break	Human Factors, User
		Experience and Design
	HX360 Innovation Program: Innovation Spotlight - Data	Human Factors, User
	Liquidity	Experience and Design
	HX360 Innovation Leaders Program: Behind the Curtain:	Human Factors, User
	An Insider's View of Payer Innovation	Experience and Design
	HX360 Innovation Leaders Program: Forging Health -	Human Factors, User
	TMC Innovation Institute and AT&T Foundry	Experience and Design
	HX360 Innovation Leaders Program: Making	Human Factors, User
	Patient-Generated Health Data Work for Physicians	Experience and Design
	HX360 Innovation Leaders Program: Closing Keynote:	Human Factors, User
	Why Cleveland Clinic Developed a Wellness Institute and	Experience and Design
	What is New in Making your RealAge Younger	
INV1	Precision Medicine for Every One	Innovation,
		Entrepreneurship and
		Venture Investment
PM1	Opening Keynote: Using Health IT to Demonstrate the	Innovation,
	Value of Precision Medicine	Entrepreneurship and
		Venture Investment
	Venture+ Forum: Welcome Remarks	Innovation,
		Entrepreneurship and
		Venture Investment
	Venture+ Forum: Startup Health Insights – 2016	Innovation,
	Investment Report	Entrepreneurship and
		Venture Investment
INV2	How to Wire and Scale Primary Care Innovation	Innovation,
		Entrepreneurship and
		Venture Investment

ID	タイトル	トピック分類
PM2	Is Your Organization Ready for Precision Medicine?	Innovation,
		Entrepreneurship and
		Venture Investment
	Venture+ Forum: Healthcare Fundraising in 2017	Innovation,
		Entrepreneurship and
		Venture Investment
	Venture+ Forum: Break	Innovation,
		Entrepreneurship and
		Venture Investment
	Venture+ Forum: Judges Introduction	Innovation,
		Entrepreneurship and
		Venture Investment
INV3	Direct-to-Consumer Virtual Care: Integrating New Models	Innovation,
	and Workflows	Entrepreneurship and
		Venture Investment
PM3	Health IT for Automated Enterprise-Scale Clinical Trial	Innovation,
	Matching	Entrepreneurship and
		Venture Investment
	Venture+ Forum: Company Presentations I	Innovation,
		Entrepreneurship and
		Venture Investment
	Venture+ Forum: Networking Lunch	Innovation,
		Entrepreneurship and
		Venture Investment
INV4	Transforming Big Data into Smart Data for New Care	Innovation,
	Models	Entrepreneurship and
		Venture Investment
PM4	An IT Solution for Targeted Drug Matching and Evidence	Innovation,
	Collection	Entrepreneurship and
		Venture Investment
	Venture+ Forum: The Medical Capital Innovation	Innovation,
	Competition - A Call For Big Ideas	Entrepreneurship and
		Venture Investment

ID	タイトル	トピック分類
	Venture+ Forum: Where Are They Now?	Innovation,
		Entrepreneurship and
		Venture Investment
INV5	Consumerism: Strategies to Meet New Market Demands	Innovation,
	and Rising Expectations	Entrepreneurship and
		Venture Investment
PM5	Shooting the Moon: IT Infrastructure for Data-Sharing	Innovation,
	Networks	Entrepreneurship and
		Venture Investment
	Venture+ Forum: Company Presentations II	Innovation,
		Entrepreneurship and
		Venture Investment
INV6	Artificial Intelligence (AI) and the Future of Health Care	Innovation,
		Entrepreneurship and
		Venture Investment
PM6	Closing Keynote: Analytics, Data-Sharing, and Real-World	Innovation,
	Evidence for Evaluating Outcomes in Precision Medicine	Entrepreneurship and
		Venture Investment
	Venture+ Forum: Networking Break	Innovation,
		Entrepreneurship and
		Venture Investment
	Venture+ Forum: Provider Perspectives on Technology	Innovation,
	Adoption	Entrepreneurship and
,		Venture Investment
	Venture+ Forum: Concluding Remarks	Innovation,
		Entrepreneurship and
		Venture Investment
	Venture+ Forum: Networking Reception	Innovation,
		Entrepreneurship and
		Venture Investment
	HX360 Innovation Leaders: Welcome Remarks	Innovation,
		Entrepreneurship and
		Venture Investment

ID	タイトル	トピック分類
	HX360 Opening Keynote: Scaling Digital Innovation	Innovation,
		Entrepreneurship and
		Venture Investment
	HX360 Innovation Leaders Program: Betting on	Innovation,
	Collaboration for the Future of Health	Entrepreneurship and
		Venture Investment
	HX360 Innovation Leaders Program: New Opportunities	Innovation,
	for Care Delivery and Engagement: Ordering the Chaos of	Entrepreneurship and
	Consumerism	Venture Investment
	HX360 Innovation Leaders Program: Breaking through	Innovation,
	Barriers to Innovation in Health IT	Entrepreneurship and
		Venture Investment
	HX360 Innovation Leaders Program: Innovation in	Innovation,
	Traditional Academic Medicine: Harvard Teaching	Entrepreneurship and
	Hospitals	Venture Investment
	HX360 Innovation Leaders Program: Break	Innovation,
		Entrepreneurship and
		Venture Investment
	HX360 Innovation Leaders Program: A Hero's Journey - a	Innovation,
	Healthcare System's Path to Consumer Innovation	Entrepreneurship and
		Venture Investment
70	Improving Customer Experience: Innovative Strategies	Innovation,
	and Solutions	Entrepreneurship and
		Venture Investment
85	The Physician Voice within Healthcare Innovation	Innovation,
		Entrepreneurship and
		Venture Investment
	Welcome	Innovation,
		Entrepreneurship and
		Venture Investment
	Cracking the Code on Secure Clinical Communications:	Innovation,
	How HCA Tackled one of Healthcare's Most Common	Entrepreneurship and
	Challenges	Venture Investment

ID	タイトル	トピック分類
	HX360 Innovation Leaders Program: Opening Remarks	Innovation,
		Entrepreneurship and
		Venture Investment
	HX360 Innovation Leaders Program: Opening Keynote:	Innovation,
	The Journey to Continuous Health: A Perspective on	Entrepreneurship and
	Population Health Management	Venture Investment
	Expanding Access to Care for Kids and Families through	Innovation,
	TeleHealth	Entrepreneurship and
		Venture Investment
	HX360 Innovation Leaders Program: Real-World ACO	Innovation,
	Work: A Provider Diary	Entrepreneurship and
		Venture Investment
306	It Starts with an Idea: Making Innovation Happen	Innovation,
		Entrepreneurship and
		Venture Investment
	HX360 Innovation Leaders Program: Creating an	Innovation,
	Evidence-Based Ecosystem with all Key Stakeholders:	Entrepreneurship and
	Network of Digital Evidence (NODE Health)	Venture Investment
	HX360 Innovation Leaders Program: Lunch Break	Innovation,
		Entrepreneurship and
		Venture Investment
	Enabling Care Transitions Through Mobility and Extreme	Innovation,
	Customer Service	Entrepreneurship and
		Venture Investment
	HX360 Innovation Leaders Program: Newsmaker	Innovation,
	Close-Up: Iora Health	Entrepreneurship and
		Venture Investment
	Improving Patient Care and Population Health with	Innovation,
	Analytics	Entrepreneurship and
		Venture Investment
	HX360 Innovation Leaders Program: UPMC-Journey to an	Innovation,
	Innovation Hub	Entrepreneurship and
		Venture Investment

ID	タイトル	トピック分類
	HX360 Innovation Leaders Program: Break	Innovation,
		Entrepreneurship and
		Venture Investment
	HX360 Innovation Program: Innovation Spotlight - Data	Innovation,
	Liquidity	Entrepreneurship and
		Venture Investment
	HX360 Innovation Leaders Program: Behind the Curtain:	Innovation,
	An Insider's View of Payer Innovation	Entrepreneurship and
		Venture Investment
	HX360 Innovation Leaders Program: Forging Health -	Innovation,
	TMC Innovation Institute and AT&T Foundry	Entrepreneurship and
		Venture Investment
	HX360 Innovation Leaders Program: Making	Innovation,
	Patient-Generated Health Data Work for Physicians	Entrepreneurship and
		Venture Investment
	HX360 Innovation Leaders Program: Closing Keynote:	Innovation,
	Why Cleveland Clinic Developed a Wellness Institute and	Entrepreneurship and
	What is New in Making your RealAge Younger	Venture Investment
5	Secure and Reliable Data Exchange with Devices	IT Infrastructure, HIT Stds
		& Medical Device Integ
20	Breaking HIE Barriers	IT Infrastructure, HIT Stds
		& Medical Device Integ
26	MHS GENESIS: Transforming the Delivery of Healthcare	IT Infrastructure, HIT Stds
		& Medical Device Integ
35	The Road to Population Health Management	IT Infrastructure, HIT Stds
		& Medical Device Integ
	Welcome	IT Infrastructure, HIT Stds
		& Medical Device Integ
	Cracking the Code on Secure Clinical Communications:	IT Infrastructure, HIT Stds
	How HCA Tackled one of Healthcare's Most Common	& Medical Device Integ
	Challenges	
	Expanding Access to Care for Kids and Families through	IT Infrastructure, HIT Stds
	TeleHealth	& Medical Device Integ
	Enabling Care Transitions Through Mobility and Extreme	IT Infrastructure, HIT Stds
	Customer Service	& Medical Device Integ

ID	タイトル	トピック分類
	Improving Patient Care and Population Health with	IT Infrastructure, HIT Stds
	Analytics	& Medical Device Integ
	Centers for Disease Control and Prevention Listening	IT Infrastructure, HIT Stds
	Session on Clinical Decision Support	& Medical Device Integ
163	No Patient Left Behind: Leading Transition to Modernized	IT Infrastructure, HIT Stds
	Capability	& Medical Device Integ
PHY1	A Changing Healthcare Landscape	Leadership, Governance,
		Strategic Planning
CIO1	Opening Keynote: THE ART OF DECEPTION: How Hackers	Leadership, Governance,
	and Con Artists Manipulate You and What You Can Do	Strategic Planning
	About It	
CIO2	Mid-Morning Keynote: The Role of Technology in	Leadership, Governance,
	Improving Care and Bending the Cost Curve	Strategic Planning
CIO3	Mid-Afternoon Keynote: Everybody's Talking (and	Leadership, Governance,
	Everything!)	Strategic Planning
CIO4	Closing Keynote: What Really Matters at the End of Life	Leadership, Governance,
		Strategic Planning
PHY6	Preparing for the Next Horizon of Healthcare	Leadership, Governance,
		Strategic Planning
11	Health Information Technology – Enabling Joint	Leadership, Governance,
	Readiness	Strategic Planning
73	Military Medicine - Connected to the World	Leadership, Governance,
,		Strategic Planning
101	MHS GENESIS: Driving Successful Business	Leadership, Governance,
	Transformation	Strategic Planning
92	Renown Health's IT Transformation: A Model for Success	Leadership, Governance,
		Strategic Planning
KC18	Consumption billing for on-premises data centers	Leadership, Governance,
		Strategic Planning
310	Next-Generation IT Governance: Fully Integrated and	Leadership, Governance,
,	Operationally-Led	Strategic Planning
PSP1	Automation of Clinical Scores within the Electronic Medical	Process Improvement,
	Record	Workflow, Change
		Management

ID	タイトル	トピック分類
PSP13	Northwell Clinical Snapshot: Improving Primary Care with	Process Improvement,
	Point-of-Care Clinical Quality Dashboard	Workflow, Change
		Management
PSP2	MeRLin (Medical Record TimeLine): Improving EHR	Process Improvement,
	Clinical Chart Review Through Effective Visualization of	Workflow, Change
	Longitudinal Medical Record Data	Management
PSP8	Achieving Triple Aim with Agile Reporting and Dashboards	Process Improvement,
		Workflow, Change
		Management
YT1	YourTurn: Integrated Smartphone Apps and their Impacts	Process Improvement,
	on Clinical Communication	Workflow, Change
		Management
KC04	Unleash the Power of Little Data	Process Improvement,
		Workflow, Change
		Management
77	Perfecting the Mobile Solution	Process Improvement,
		Workflow, Change
		Management
YT5	YourTurn: Does your Help Desk Need Help?	Process Improvement,
		Workflow, Change
		Management
	Welcome	Process Improvement,
		Workflow, Change
		Management
	Cracking the Code on Secure Clinical Communications:	Process Improvement,
	How HCA Tackled one of Healthcare's Most Common	Workflow, Change
,	Challenges	Management
	Expanding Access to Care for Kids and Families through	Process Improvement,
	TeleHealth	Workflow, Change
		Management
	Enabling Care Transitions Through Mobility and Extreme	Process Improvement,
	Customer Service	Workflow, Change
		Management

Improving Patient Care and Population Health with Analytics Workflow, Change Management  140 Change Management: Enhancing the Conversation Process Improvement, Workflow, Change Management  YT9 YourTurn: Hospital Staff Education of EMR Rollout and Change Management  PSP11 Leaping Forward in Safety & Quality: Leveraging Management  PSP12 Leaping Forward in Safety & Quality: Leveraging Quality and Patient Safety Outcomes  PSP12 Improving Sepsis Prediction by Developing Advanced Model Outcomes  PSP5 Electronic Antimicrobial Stewardship: Reducing Incidence of Drug-Resistant Infections and Associated Costs Outcomes  QU1 Opening Keynote: CMS Quality Payment Program: Quality and Patient Safety Outcomes  QU2 Leveraging Health IT to Risk Adjust Patients Quality and Patient Safety Outcomes  QU3 Excelling in MIPS Performance Thresholds - Health Quality and Patient Safety Outcomes  QU4 Primary Care's Role in Reducing Unnecessary Hospital visits and Re-admissions within 30 Days  QU5 Using Health IT to Reduce Hospital Acquired Conditions Voutcomes  QU6 Closing Keynote: Meet Your Quality Requirements, Save Time, and Earn More with ACEP's Quality Initiatives  Reducing Preventable Inpatient Deaths in Community Hospitals  Reducing Preventable Inpatient Deaths in Community Quality and Patient Safety Outcomes  A Breastmilk Management System Improves Patient Quality and Patient Safety Outcomes  A Breastmilk Management System Improves Patient Quality and Patient Safety Outcomes  A Breastmilk Management System Improves Patient Safety Outcomes	ID	タイトル	トピック分類	
Management		Improving Patient Care and Population Health with	Process Improvement,	
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53 Mercy Clinical Pathways Improving Quality and Cost Outcomes  A Breastmilk Management System Improves Patient Quality and Patient Safety	38	Hospitals	Outcomes	
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	68	A Breastmilk Management System Improves Patient	Quality and Patient Safety	
		Safety	Outcomes	

ID	タイトル	トピック分類	
83	Chromic Control in the Hamital	Quality and Patient Safety	
	Glycemic Control in the Hospital	Outcomes	
117	eCQM Readiness and Challenges: An Essential	Quality and Patient Safety	
	Conversation	Outcomes	
	Centers for Disease Control and Prevention Listening	Quality and Patient Safety	
	Session on Clinical Decision Support	Outcomes	

## 4.3 表 3 トピック分類配分表

HIMSS17		HIMSS16		
番号	トピック分類名	件数	トピック分類名	件数
1	Business of Healthcare and New Payment Models	13	Business of Healthcare and New Payment Models	18
2	Care Coordination, Culture of Care and Pop Healt	47	Care Coordination and Population Health	29
3	Career/Workforce Development and Diversity	21	Career/Workforce Development and Diversity	6
4	Clinical and Business Intelligence	19	Clinical and Business Intelligence	14
5	Clinical Informatics and Clinician Engagement	14	Clinical Informatics and Clinician Engagement	19
6	Compliance, Risk Management, and Program Integrity	2	-	-
7	Connected Health	47	Connected Health	9
8	Consumer and Patient Engagement	30	Consumer and Patient Engagement	20
9	Cybersecurity and Privacy & Security	23	-	
10	EHRs	2	EHRs/Meaningful Use	10
11	Entrepreneurship and Venture Investment	14	-	-
12	Genomics/Precision Medicine	3	-	-
13	Health Information Exchange, Interoperability and Data Access	19	Health Information Exchange and Interoperability	54
14	Health IT Public Policy	12	-	-
15	Human Factors, User Experience and Design	24	Human Factors, Usability and Design	5
16	Innovation, Entrepreneurship and Venture Investment	55	Innovative Processes, Solutions and Emerging Tech.	23

HIMSS17			HIMSS16	
番号	トピック分類名	件数	トピック分類名	件数
17	IT Infrastructure, HIT Stds & Medical Device Integ	11	IT Infrastructure, HIT Stds & Medical Device Integ	13
18	Leadership, Governance, Strategic Planning	12	Leadership, Governance, Strategic Planning	22
19	Process Improvement, Workflow, Change Management	15	Process Improvement, Workflow, Change Management	29
20	Quality and Patient Safety Outcomes	16	Quality and Outcomes	19
	トピック分類配分累計	399		290

## 5. 略語集

ACO Accountable Care Organization

ADL Activities of Daily Living
ADS Authoritative Data Sources

AHIC American Health Information Community

AHIMA American Health Information Management Association

AHRQ Agency for Healthcare Research and Quality

AMA American Medical Association

ARRA American Recovery and Reinvestment Act of 2009

ASTM American Society for Testing and Materials

BPMN Business Process Modeling Notations

CAH Critical Access Hospital

CAHPS Consumer Assessment of Healthcare Providers and Systems

CBT Cognitive Behavioral Therapy

CCBT Computer-Based Cognitive Behavioral Therapy

CCD Continuity of Care Document

CCDA Consolidated Clinical Document Architecture

CCHIT Certification Commission for Health Information Technology

CCN CMS Certification Numbers
CCR Continuity of Care Record

CDA Clinical Document Architecture

CDC Centers for Disease Control and Prevention

CDIS Clinical Decision Intelligence System

CDISC Clinical Data Interchange Standards Consortium

CDS Clinical Decision Support
CDW Clinical Data Warehouse

CHIME College of Healthcare Information Management Executives

CHIP Children's Health Insurance Program

CHIPRA Children's Health Insurance Program Reauthorization Act of 2009

CIO Chief Information Officer

CITL Center for Information Technology Leadership

CKD Chronic Kidney Disease

CLIA Clinical Laboratory Improvement Amendments of 1988

CM Clinical Modification
CMO Chief Medical Officer

CMS Centers for Medicare & Medicaid Services
CORE Council on Operating Rules for Eligibility

CPOE Computerized physician order entry

DBR Disease-Based Registries

DCH Department of Community Health

DICOM Digital Imaging and Communication in Medicine

DoD U.S. Department of Defense

DOQ-IT Doctor's Office Quality - Information Technology
DPRP Diabetes Provider Recognition Program (of NCQA)

DQIM Data Quality Improvement Methodology

DSN Data Sharing Networks

EA Enterprise Architecture

EBM Evidence-based Medicine

EBP Evidence-based Practice

EHR Electronic Health Record

EMR Electronic Medical Record

EP Electorophysiology

ePHR electronic Personal Health Record
EPO Exclusive Provider Organization
FACA Federal Advisory Committee Act
FDA U.S. Food and Drug Administration
FDIS Final Draft International Standard
FFP Federal Financial Participation

FFS Fee-For-Service
FFY Federal Fiscal Year

FNPRM Final Notice of Proposed Rulemaking / Further Notice of Proposed

Rulemaking

FQHC Federally Qualified Health Center

FTE Full-Time Equivalent

HCIT Healthcare Information Technology

HEDIS Healthcare Effectiveness Data and Information Set

HHS U.S. Department of Health and human Service

HIE Health Information Exchange

HIMSS Healthcare Information and Management Systems Society

HIOs Health Information Organizations

HIPAA Health Insurance Portability and Accountability Act of 1996

HIT Health Information Technology

HITECH Health Information Technology for Economic and Clinical Health Act

HITPC Health Information Technology Policy Committee

HITSP Healthcare Information Technology Standards Panel

HL7 Health Level Seven

HMO Health Maintenance Organization

HOS Health Outcomes Survey

HPSA Health Professional Shortage Area

HRSA Health Resource and Service Administration (of HHS)

HSPs HIE service providers

IAPD Implementation Advanced Planning Document

ICD International Classification of Diseases

ICD-9-CM International Classification of Diseases, Ninth Revision, Clinical

Modification

IEC International Electrotechnical Commission

IFR Interim Final Rule

IHE Integrating the Healthcare Enterprise

IHS Indian Health Services IOM Institute of Medicine

IPA Independent Practice Association

IRR Internal Rate of Return

ISO International Organization for Standardization

LOINC Logical Observation Identifiers Names and Codes

MA Medicare Advantage

MAC Medicare Administrative Contractor
MCO Medicaid managed care organization

MITA Medicaid Information Technology Architecture
MMIS Medicaid Management Information Systems

MRI Magnetic Resonance Imaging system

MSA Medical Savings Account

NCQA National Committee for Quality Assurance

NCVHS National Committee on Vital and Health Statistics

NeHC National eHealth Collaborative

NHIN Nationwide Health Information Network

NIST National Institute of Standards and Technology

NLM National Library of Medicine
NPI National Provider Identifier

NPRM Notice of Proposed Rulemaking NPSG National Patient Safety Goals

NQF National Qualifications Framework

NVLAP National Voluntary Laboratory Accreditation Program

ONC Office of the National Coordinator for Health Information Technology

P4P Pay for Performance

PACS Picture Archiving and Communication Systems

PAHP Prepaid Ambulatory Health Plan

PAPD Planning Advanced Planning Document

PCD Patient Care Device

PCHR Personally Controlled Health Records

PCMH Patient-Centered Medical Home

PCPI Physician Consortium for Performance Improvement

PCS Procedure Coding System
PDA Personal Digital Assistant
PFFS Private Fee-For-Service

PHM Population Health Management
PHO Physician Hospital Organization

PHR Personal Health Record
PHS Public Health Service

PHSA Public Health Service Act

PIHP Prepaid Inpatient Health Plan

POC Point-of-Care

POCT Point-of-Care testing

POEM Patient-Oriented Evidence that Matters

POS Problem Oriented System

PPO Preferred Provider Organization

PQRI Physician Quality Reporting Initiative

PSO Provider Sponsored Organization

QOL Quality of Life

RHC Rural Health Clinic

RHIO Regional Health Information Organization

RLS Record Location Services

ROI Return On Investment

RPM Remote Patient Monitoring

RPPO Regional Preferred Provider Organization

RSNA Radiological Society of North America

RxNorm a standardized nomenclature for clinical drugs and drug delivery

devices

SMHP State Medicaid Health Information Technology Plan

SNOMED-CT Systematized Nomenclature of Medicine - Clinical Terms

SNS Social Networking Service

SSA Social Security Administration

SSN Social Security Number

SSO Single Sign-On

TIN Tax Identification Number
UML Unified Modeling Language

VLER Virtual Lifetime Electronic Record

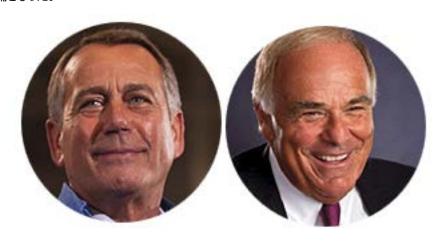
WHO World Health Organization

XDS Cross Enterprise Document Sharing

## おわりに

クロージングのキーノートは午前と午後の2セッションであった。

午前のセッションでは共和党の元下院議長ジョン・ボーナー氏 と民主党のペンシルベニア州第 45 代 総督 エド・レンデル氏の対談が行われた。「ところで大統領選挙では誰に投票したの?」という司会者の 問いかけから始まった対談は、就任したてのトランプ大統領が公約として掲げているオバマケアの廃止についての議論となった。



ジョン・ボーナー氏

エド・エンデル氏

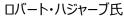
http://www.himssconference.org/education/sessions/keynote-speakers



オバマケアの反対派として知られているボナー氏だが、「オバマケアは廃止するべきではない。よくないところを改善していくべきだ。」という発言もあり、同日のCNNの速報として放映されるなど注目を集めていた。

午後のセッションでは、サイバーセキュリティ専門家であり起業家でもあるロバート・ハジャーブ氏とイノベーションの投資家であるケビン・オリアリー氏の講演と対談であった。







ケビン・オリアリー氏

http://www.himssconference.org/education/sessions/keynote-speakers



ハジャーブ氏はお金とヘルスレコードとを対比して、ヘルスレコードに対する国際的なセキュリティ対策がまだまだ不充分であることを訴えていた。オリアリー氏は起業家として成功するための秘訣についてのレクチャーであった。日本では馴染みがないことだが、2人は人気 TV 番組に一緒に出演しているらしく、対談では TV 番組でのセリフやダンスを披露して観客を沸かせていた。これからのアメリカの医療政策はどうなってしまうのだろう・・・といったどんよりした空気から一転、和やかな雰囲気で終了した。

国民皆保険のために医療費増大に苦しんでいる日本と、無保険者を無くすために医療制度改革に苦しんでいる米国とでスタート地点や国民気質などの違いはあるものの、高品質で効率的でコストパフォーマンスに優れた健康医療を提供するためにICTは不可欠であるという点は共通認識であることは言うまでもない。本報告書が会員各社の事業発展の一助となれば幸いである。

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