



# HIMSS16 調査報告

平成 28 年 6 月

標準化推進部会

国際標準化委員会

## はじめに

標準化推進部会・国際標準化委員会  
委員長 丹治 夏樹

HIMSS16 は、2016 年 2 月 29 日から 3 月 4 日の 5 日間、ネバダ州ラスベガスの Sands Expo Convention center で開催されました。

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きており、本年も 3 名の有識者を派遣し調査を実施いたしました。ご存じのとおり、米国では 2004 年にブッシュ大統領が大統領指令を発表し、1 患者 1 カルテの実現を目指す NHIN (Nationwide Health Information Network) の構築を開始しました。この計画は、HHS (U.S. Department of Health & Human Services、米国保健社会福祉省) に ONC (Office of the National Coordinator for Health Information Technology、国家医療 IT 調整官室) を設け、ONC の主導の下に、法的整備や体制整備が行われました。これは後の米国における EHR の開発につながるものとなりました。

2009 年にはオバマ大統領による景気刺激策 ARRA (American Recovery and Reinvestment Act) が成立し、その中で、HITECH (Health Information Technology for Economic and Clinical Health Act) 法と呼ばれる「経済的および臨床的健全性のための医療情報技術に関する法律」として医療 IT の促進が掲げられました。そしてオバマ政権のもと、医療保険改革の施策の一つとして、ヘルスケア IT 関連予算に約 2 兆円を投資するプログラム (ARRA/HITECH 法関連事業) が 2010 年より進行中で、その大きな施策の一つとしての Meaningful Use (MU) も既に最終段階である Stage 3 に入っています。

今回の HIMSS16 では、MU の後継政策となる MACRA (Medicare Access and CHIP Reauthorization Act) や CDSS (Clinical Decision Support System) 、PHM (Population Health Management) 等の次世代のシステムを支える概念の発表も注目されるものでした。参加者数は 41,712 人 (3 月 3 日現在、HIMSS15 : 42,560 人) 、出展企業は 1,311 社 (HIMSS15 : 1,344 社) と、昨年に匹敵する規模となり依然として医療 IT に対する関心と期待の高さを感じさせるものでした。

本報告書において、このような米国における HIT の最新動向や熱気を少しでも感じ取っていただき、会員各社における事業の一助となれば幸いです。

平成 28 年 6 月 1 日

## 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. HIMSS16 全体概要

### 3. テーマ別報告

#### 3.1. 基調講演（Opening Keynote より）

#### 3.2. PHM について

#### 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. HIE と相互運用性について

#### 3.5. HIMSS Interoperability Showcase

#### 3.6. HIMSS16 モバイルアプリ

#### 3.7. 教育セッション概要

### 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

## **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）  
木村 雅彦（医療システム部会・相互運用性委員会委員長）  
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：2016年2月29日～3月4日  
開催場所：Sands Expo and Convention Center, Las Vegas, Nevada

### **1.3. 次回日程（参考）**

開催日程：2017年2月19日～2月23日  
開催場所：Orange County Convention Center, Orlando, Florida

## 2. HIMSS16 全体概要

2016年2月29日～3月4日、米国大統領選挙に向けた候補者選定の山場である Super Tuesday を跨ぐ日程でネバダ州ラスベガス、Sands Expo and Convention Center において HIMSS16 は開催された。

HIMSS16 は例年通り、40,000 人を超える来場者数、300 を超える教育セッション数、1,300 を超える出典企業数で、世界最大規模のヘルスケア ICT カンファレンスとして好評を博していた。

Meaningful Use およびその後継政策となる MACRA による EHR の普及拡大、CDSS や PHM とした次世代の基盤となるシステム概念の導入に加え、モバイル、BigData、IoT/IoE、AI といった先端技術の活用、患者の主體的な自身の健康維持増進への関与の拡大（Patient Engagement）等の変遷の中にあって、相互運用性の確保／拡充を重要視する発表等が相次いだ。

この中でも特に今年の HIMSS では、PHM（Population Health Management）の名の下に、大学附属病院を中心とする大規模医療機関に於ける PHR 型サービスに関する教育セッションや展示が一際目立っていた。



次章以降、複数の教育セッション等を横断し、テーマ別に報告を掲載する。

## 3. テーマ別報告

### 3.1. 基調講演（Opening Keynote より）

Sing us a song, you're the Piano Man! — ビリー・ジョエルの歌声が終わると会場は暗転し、一人のダンサーとレーザービームのパフォーマンスがスタート。ボン！という閃光でパフォーマンスは終了。いよいよ HIMS16 の開幕となった。

#### 基調講演 保健福祉庁長官は相互運用性の重要性を強調

基調講演トップバッターは保健福祉省長官 Sylvia Burwell 女史。Burwell 女史は、保健福祉の目的が「より良いケアの提供」「より賢くお金を使うこと」「人々をより健康にすること」の 3 つであるとし、その目的達成のためになすべきこととして次の 4 点を掲げた。

#### ①相互運用性の確保

最大の EHR ベンダー、多数の医療提供者との間で相互運用性を促進することについて協定を結んできました

#### ②言語の共通化

データが 1 つのシステムから別のシステムにどのように流れるかの一貫性を確保します

#### ③プライバシーへの配慮による安全性の確保

患者のデータが使用される方法を患者自らが理解している必要があります

#### ④患者データへのアクセス

医療者は、患者のケアの質を保証するために専門家との間で一定の手続きに基づきデータを共有できるようにする必要があります

この中でも特に相互運用性については、米国で最大規模のヘルスケアシステム 5 つと全米病院の 90%以上に電子カルテを提供する Cerner、EPIC といったシステムベンダー、カイザーパーマネンテ、テネット・ヘルスケアなどのヘルスケアサービス提供者が広く消費者にデータを提供できるよう、連邦州政府が認定する相互接続性に合意したことが表明された。

## 相互運用性に関するコミットメント

保健福祉省と EHR ベンダー、医療者との間で取り交わされた約束は以下のとおりである。

### 民間セクターステークホルダーのコミットメント宣言 ～ケアのための接続～

#### ①消費者のアクセス

消費者が自らの電子健康情報を簡単かつ安全にアクセスすることを支援します。  
消費者が望む任意の場所において、消費者の情報がどのように共有・利用されれば、  
消費者本人や所属するコミュニティの健康にとって確実にメリットをだせるように  
なるかを学んでいきます。

#### ②データブロックをしないこと／透明性

ヘルスサービス提供者が個人の健康情報を共有することを支援します。他の提供者が  
保持する患者の健康情報の使用は法律で許可されています（ブロックをすると情報  
共有に対する故意による干渉とみなされます）。

#### ③標準規格

連邦政府が承認した電子健康情報のための相互運用性の国内基準、ポリシー、ガイ  
ダンス、実施方法を実装し、プライバシーやセキュリティに関連する基準を含んだ  
ベストプラクティスを採用します。

## ONC と CMS の特別セッション (Special Session with the ONC and CMS)

民間セクターのコミットメントについては 3/1 夕方の特別セッションでも引き続き取り上げられ、相互運用性を含む「information」に関する課題が論じられた。

ここでは、保健福祉省の国家コーディネータの Karen B. De Salvo 氏と CMS 管理者代理 (Acting Administrator) の Andy Slavitt 氏が交代でプレゼンテーションを行われた。

「information」の領域で行うべきこととして下記 3 点があげられていた。

- ①電子健康情報を meaningful use のケアに適用すること
- ②コストと質の情報に関して透明性を出すこと
- ③消費者と医師の意思決定を支援すること

印象的だったのは、Andy Slavitt 氏が医療者の生の声を伝え、会場から笑いと同意の拍手が起こったことだった。

「作業負荷が多すぎる。日中は電子カルテのデータ入力しかできない！」(アトランタの総合診断医)

「電子カルテの議論は人間が置き去りだ。誰かの情報を得るためには郵便か fax を受け取るか、直接聴きに行くしかない。」（アトランタの総合診断医）

「ファイアーウォールのせいで病院へのアクセスができず、そのためにわざわざ足を運ばなければならない。」（シカゴの専門医）

「アスピリンをオーダするのに 8 回もクリックが必要。強力なアスピリンの場合は 16 回もクリックが必要。これは患者ケアではない 単なる「クリック」だ！」（シカゴの総合診断医と専門医）

「患者を診る時間が減ってしまい、スタッフとのやりとりのために一日中コンピュータを操作していなければならない。本当に忙殺されている！」（ロサンゼルス総合診療医）

特別セッション後半の座談会で、司会者が「普及を妨げるものがあるとすればそれは何か？」との質問に Karen 氏は「国内規格の見直しとガバナンスを利かせられるかどうかのポイントである」と回答したのに対して、Andy 氏は「とにかく消費者と医師が選択してくれるかどうか、これに尽きる」と回答していた。



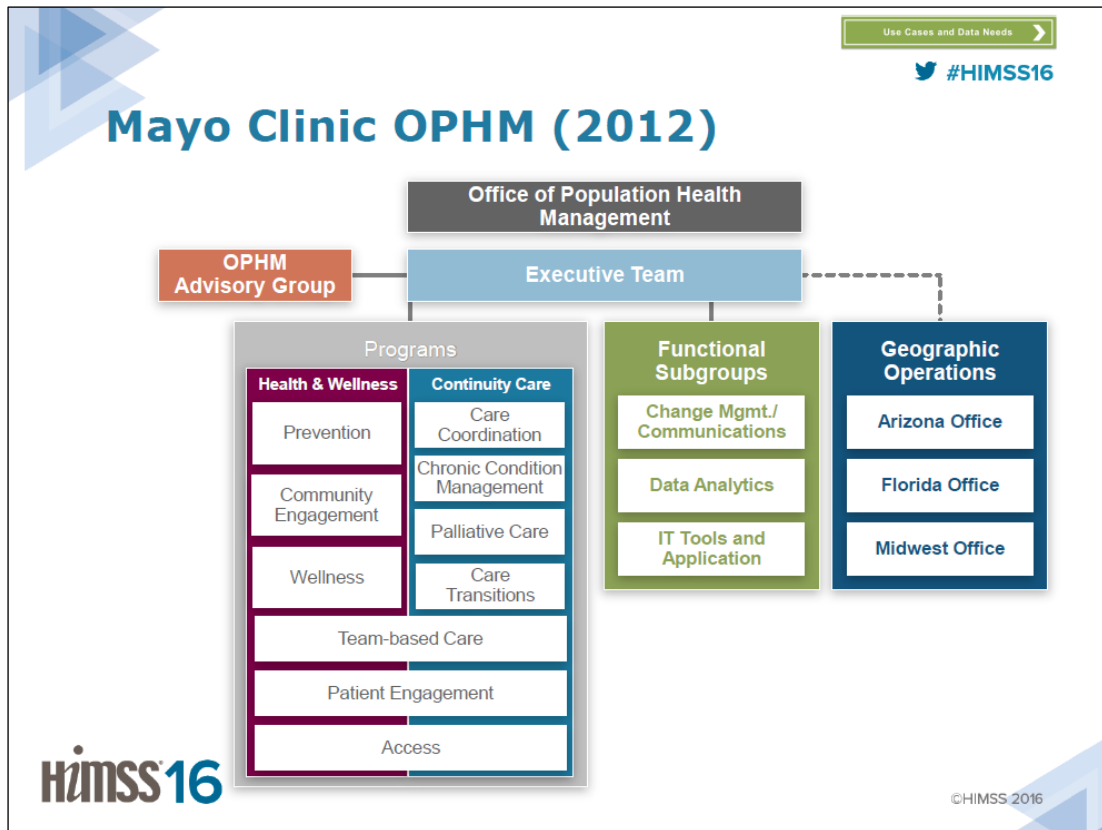


## 3.2. PHM について

PHMとは、今年の HIMSS で大々的に注目された領域で、EHR や Disease Management による Community Care の側面や、患者自身による自己の治療・健康維持改善への積極的な取り組み (Patient Engagement) を推進する PHR の概念に属する側面、医療者および患者のポータル、これらの実装に於ける CDSS (Clinical Decision Support System) や BigData 解析技術、人工知能等による予測解析結果の活用等を含む、新たなシステム概念である。

従来、PHR では B2C 型サービスモデルが主に取り扱われてきたが、PHM では B2B2C 型サービスモデルとなっており、中間の B (Business) プレイヤーとして医療機関は元より、健保組合や自治体等、複数のプレイヤーが想定されている。この背景として一定の規模を有するプレイヤーもしくはガバナンスを効かせる母体としての明確化の要素が働いていることは言うまでもないことだが、今回の HIMSS では、IoT 等技術のセキュリティに配慮した導入やメディアとしてゲームデバイスを活用する Gamification による患者の活用継続性の向上等の技術活用に関する教育セッションも在ったものの、以下の様な特に医療機関が提供するサービスとしての実装事例が多く発表された。

- Christiana Care Health System による外科系治療支援を主とする多面的な目的の下での、ビッグデータ予測解析技術、PHR ポータルを活用した施設横断的な治療リスク分析システムの構築事例
- Winona Health による糖尿病等慢性期疾患を対象とした地域包括ケアに於ける PHM 構築事例
- University of Miami Hospital, Sylvester Comprehensive Cancer Center, Bascom Palmer Eye Institute, Jackson Memorial Hospital, Holtz Children's Hospital, Miami VA Medical Center 等の提携病院群により構成される UHealth に於ける、多種多様な各施設のシステムを EHR として連携しつつ、EHR からのオーダー・エントリーによる Hadoop 等技術を活用した予測解析システムの組み込みによる PHR システムの UMiami Enterprise クラウド基盤としての構築事例
- Massachusetts General Hospital および Brigham & Women's Hospital における Central Population Health Coordinator の設置による糖尿病や心血管疾患等を対象とした PHM の組織的導入事例
- MAYO CLINIC による Office of Population Health Management の設置による組織的な Community Primary Care の推進に特にフォーカスした体系的な PHM 構築への取り組み事例 (以下に Office of Population Health management の組織体制図を示す)



出典：Education Session#105 “The Population Health Imperative, a Systematic Approach to Value”

By Jerry Sobolik, Senior Business Analyst, Office of Population Health, Mayo Clinic & Claudia Blackburn Miller, Senior Manager, The Chartis Group

共通的な特徴として、EMR/EHR および CDSS や Physician/Patient Portal、BigData 解析、人工知能等のシステム／サービスが複数施設横断で連携される実装形態となっていたこと、以下に示す “STEPS” という Health IT のキーワードを軸に導入価値について評価がされていた点が挙げられる。

- S – Satisfaction
- T – Treatment/Clinical
- E – Electronic Secure Data
- P – Patient Engagement & Population Management
- S – Savings

### 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

Meaningful Use は、2009 年のオバマ政権による米国再生・再投資法律（ARRA）における HITECH 法（Health Information Technology for Economic and Clinical Health Act）に基づき、認定を受けた機能を有効に活用している場合に一定のインセンティブが得られる制度である。2011 年の Stage1 のテーマは「データ収集と共有」"Data capturing and sharing"、2014 年からの Stage2 のテーマは「先進診療プロセス」"Advanced Clinical processes"、2017 年からは Stage3 として「アウトカムの改善」"Improved outcomes"をテーマに開始が予定されている。

Meaningful Use は医療機関の IT 導入に大きな影響を与えている。今回の HIMSS16 では「2009 年に EHR を利用している医師は 20%に過ぎなかったが、現在は 75%の医師が利用しており、病院に至っては 100% EHR が利用されるようになった」とその成果を強調していた。

2011 年版と 2014 年版については ONC（Office of the National Coordinator for Health Information Technology、国家医療 IT 調整官室）がインセンティブ・プログラムを取り扱っていたが、2015 年以降は 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)が担当している。

2015 年 6 月に CMS はメディケア・メディケイドの 2015 年-2017 年の EHR インセンティブ・プログラムの最終ルールと 2018 年以降の Stage3 について公表した。

最終ルールには Stage3 に関する 60 日間のコメント募集が含まれており、500 件以上のコメントが寄せられたことが報告された。

Stage3 の目標として次の 3 つが挙げられている

- ① Meaningful Use プログラムを単純化し、提供者の負荷を減らすような柔軟で明確なフレームワークを提供すること
- ② 将来のメディケア、メディケイドの EHR インセンティブ・プログラムの持続可能性（sustainability）を保証すること
- ③ ヘルス IT を患者のために健康情報の交換とアウトカムの改善に利用することを推進すること

Stage3 の目的は以下の 8 項目であり、それぞれについて評価指標が設定されている。

- ① 電子健康情報の保護
- ② 電子処方
- ③ 診断支援

- ④コンピュータ化したオーダエントリ
- ⑤患者が健康情報に電子的にアクセスすること
- ⑥患者の関与を通じたケアの調整
- ⑦健康情報の交換
- ⑧公的な健康状態と臨床データ登録状況の報告

## 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

2015年6月、CMSは最終ルールの中で、MACRA法の発表を行った。

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。

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。対象は「メディケアのみでありメディケイドや病院には影響が無い」ということがCMSから繰り返し説明されていた。

MACRAの下でのインセンティブ・プログラムの特長は次のとおりである。

- ・2018年から開始
- ・これまでの段階的アプローチ（"Stage"）とは異なる進め方
- ・提供者がMIPS（Merit-Based Incentive Payments System）の準備ができるよう支援  
EHRのmeaningful useはMIPSに組み込まれている
- ・提供者が提供するケアの質に基づいたシステムに全体的に移行することを支援

MACRAの下ではすべてのプログラムが下記の原則に則っている

- ・患者の成果に対する提供者への報酬であること
- ・現実に即してカスタマイズの柔軟性を持たせることを認める
- ・オープンなAPIで電子健康情報のロックを解除し、イノベーションを推進するように  
技術領域の平準化を行う
- ・連邦政府が認可した国内基準を実装し、実運用を重視した相互運用性を優先させること

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 MIPS 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
- ・メディケア EHR インセンティブ・プログラム

医師やプラクティショナーは MIPS で次のように採点される

- ・質 30%
- ・資源の使用 30%
- ・臨床改善活動 15%
- ・認定 EHR 技術の Meaningful Use 25%

これらの要素を合わせて MIPS スコアとし、医師やプラクティショナーへの支払いはこのスコアによって調整されることになる。

### **診療の質の電子的尺度 Electronic Clinical Quality Measurement (eCQM)**

CMS は EHR インセンティブの品質尺度として Electronic Clinical Quality Measurement (eCQM)を提供している。

eCQM は、データモデル・ロジック・言語・書式などで構成されており、2012 年に開発開始。以降リーン手法で改善が進められている。2015 年春には eCQI Resource Center を開設され、web で情報提供されている。(https://ecqi.healthit.gov/)

eCQM は 2016 年のインセンティブ・プログラムに次のように組み込まれている。

病院は 2016 年の Q3 か Q4 に 2017 年 2 月 28 日を締切に最低 4 つの eCQM を提出しなければならない

適格専門者は 2017 年 2 月 28 日を締切に最低 9 つの eCQM を提出しなければならない。その内最低でも 3 つの国家品質戦略領域の分野をカバーしていること。

この eCQM は EHR インセンティブ・プログラムの規則制定の一部であったが、最近では急性期ケア病院や長期ケア病院の入院患者の決済システムや医師の料金体系などにも活用が検討されている。

また、eCQM は診断支援 (CDS) との関係が密接であるとし、CDS は医師を標準的な治療方法に導くものであり、eCQM は患者に提供される診療の質、診療プロセス、構造、アウトカムの評価をするものである。そしてこの両者があわさることで診療の質が向上していくとされている。

### 3.4. HIE と相互運用性について

Healthcare Information Exchange (HIE)およびInteroperabilityのトピックでは、HIMSS Interoperability Showcaseのブースを中心に IHE XDS, RFD, C-CDA, BlueButton on FHIR, ConCert by HIMSS, Carequality などの標準化技術やフレームワークに関するセッションが開催されていた他、一般セッションでも様々なHIEの事例が報告されていた。

例えば、国際的な医療情報連携を行った例として、昨年9月のローマ法王のフィラデルフィア訪問の際に、多数の外国人訪問客（約200万人）の救急時の診療情報や所在情報をリアルタイムに提供するプロジェクトについての報告があった。このプロジェクトでは、イタリアとカナダからの訪問者を対象に、事前に数カ月かけてADT情報を登録しておき、救急時にはそれを元に国際的な診療情報交換をリアルタイムに行って医療従事者に提供する他、患者の所在情報（入院先）を近親者に提供するサービスを運用していた。IHE, PCS（ヨーロッパの診療サマリー文書フォーマット）、C-CDA等の標準規格を使用し、PCSからC-CDAへのデータマッピングを行っていた。

また、CORHIO（オハイオ州の地域連携ネットワークの1つ）が救急救命サービス2社と連携した事例では、救急救命時の患者の診療情報へのアクセスやその後の継続的なフォローアップ、搬送結果を調査してプロトコルの改善を図るなどによる救急救命の質的な改善や、緊急性の低い患者に対して救急車や自宅で処置を行うなどによるコスト削減を実現していた。

その他、国防総省（DoD）、退役軍人協会（VA）、民間病院間のHIEの取り込み、KHIN（Kansas Health Information Network）における薬物乱用情報のOPT-OUTに関する取り組み、大規模なHIEで問題となる患者識別情報の突合精度をReferential Matchingという方法で劇的に改善した事例などの発表があった。

全体を通して、米国ではすでにMeaningful Useを始めとする政府の施策により様々な運営母体による様々な形態での医療情報連携ネットワークやネットワーク同士のHIEが当たり前になっており、今や全米規模のネットワークを目指す段階に達していることが印象的だった。

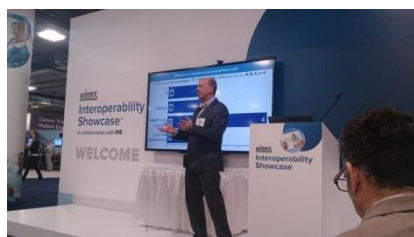
## 3.5. HIMSS Interoperability Showcase

今回も例年通り最大規模の展示会場面積を確保し、100以上のシステム展示、Interoperability Showcase Theaterでの約40テーマのセッション開催（セッションの一覧は第4項に記載）、そして Showcaseツアー（下図参照）が催されていた。

ユースケースごとに10以上のブースを構え、ブース入口の液晶モニターでユースケースやシナリオの概要が確認できるほか、パネルと実機を使用したデモンストレーションでシナリオに沿ったシステム間の情報連携の流れやその内容が紹介されていた。

今回紹介されていた主なユースケースは以下のようなものであった。

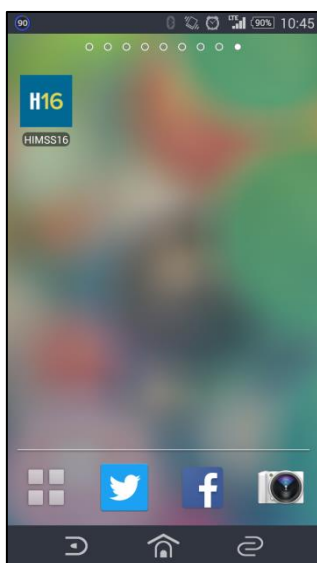
- Child Birthing
- Cancer Discovery
- Cancer Treatment
- Cancer Reporting
- Neonatal ICU
- Pediatric Cardiology
- Pediatric Surgery
- Prehospital Care
- ICU Isolation
- Physical Therapy and Rehab
- Acute Asthma Attack
- Health and Fitness
- Diabetes Management
- Cardiac Disease



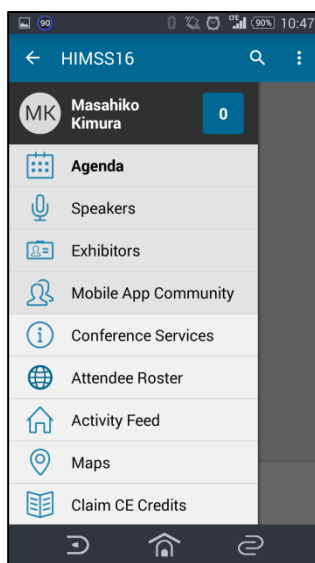
## 3.6. HIMSS16 モバイルアプリ

HIMSS14から参加者に対し教育セッションのアジェンダや演者、参加者、企業展示社等の検索および教育セッションのハンドアウトのダウンロード機能等をサポートしたモバイルアプリを提供している。このアプリは、iOSとAndroidの両方に対応しており、それぞれApp Store、Google Play Storeから無償でダウンロードできる。

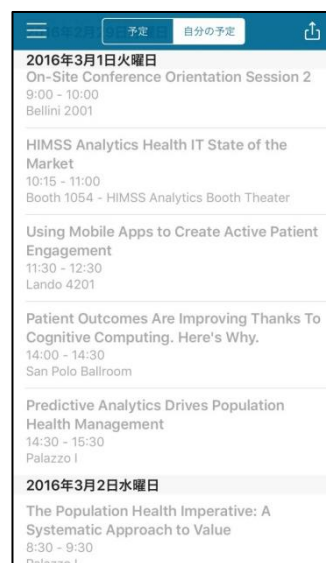
また、参加予定のセッションを「My Agenda」に登録しておけば、各セッションの開始30分前にはアラームとして注意喚起してくれるため、セッション内容のハンドアウトの予習と合わせて利用すれば、広い会場内で効率的に動くための便利なツールとなる。



HIMSS16アプリのアイコン



HIMSS16アプリのメニュー



「My Agenda」機能

HIMSS16では、新たに投票機能が追加され、いろいろなセッションで効果的に利用されていた。この機能は、口演者からの求めに応じて会場の参加者がモバイルアプリの投票用ページで選択肢の中から自分の認識や意見に最も近いものを選択すると、ほぼリアルタイムに集計されて会場のスクリーンにグラフ表示されるというものである。





Interoperability Showcaseのセッションで、投票機能により参加者の職種をリアルタイムに集計している様子

## 3.7. 教育セッション概要

今回のセッションの傾向は以下の通りである。分類の変更が昨年より大規模に行われている印象がある。トータルの演題数がHIMSS14の206、HIMSS15の218に対し、HIMSS16では316と大幅に増えているため演題数の増えている分類が多いが、中でもHealth Information Exchange and Interoperabilityが10→54と顕著に増えている。

なお、第4項に本年のHIMSS15における教育セッションの一覧とテーマ配分のHIMSS14、HIMSS15との比較を示す。

### (1) 分類の変更

- Changing Payment Models → Business of Healthcare and New Payment Models
- Transition of Care: Coordination & Management + Population Health  
→ Care Coordination and Population Healthに統合
- Clinical Informatics → Clinical Informatics and Clinician Engagement
- Mobile, Connected Health & Telehealth → Connected Health
- Provider & Patient Engagement → Consumer and Patient Engagement
- EHRs + Meaningful Use → EHRs/Meaningful Useに統合
- Entrepreneurship and Venture Investmentの新設
- Financial Information Systems & Business Operationsの廃止
- Health Information Exchange → Health Information Exchange and Interoperability
- Improving Quality & Patient Safety Outcomesの廃止
- Innovation → Innovative Processes, Solutions and Emerging Tech.
- IT Infrastructure+ IT Standards and Interoperability/Medical Device Integration  
→ IT Infrastructure, HIT Standards & Medical Device Integrationに統合
- Process Improvement, Workflow, Change Management/Clinician Engagement  
→ Process Improvement, Workflow, Change Management (Clinician EngagementはClinical Informatics and Clinician Engagementへ統合)
- Quality Management+ Improving Quality & Patient Safety Outcomes  
→ Quality and Outcomes

### (2) 演題数が大きく減った分類

- Consumer Health: 6 → 0
- EHRs:9 + Meaningful Use:6 → EHRs/Meaningful Use: 10

(3) 演題数が大きく増えた分類

- Changing Payment Models:5 → Business of Healthcare and New Payment Models:18
- Clinical Informatics:11 → Clinical Informatics and Clinician Engagement:19
- Transition of Care: Coordination & Management : 8 + Population Health :10  
→ Care Coordination and Population Health:29
- Health Information Exchange:10 → Health Information Exchange and Interoperability:54
- Innovation:8 → Innovative Processes, Solutions and Emerging Tech.:23
- Privacy & Security: 13 → 25
- Process Improvement, Workflow, Change Management/Clinician Engagement:16  
→ Process Improvement, Workflow, Change Management:29

## 4. 教育セッション一覧

### 4.1 表 1 セッション ID 順

ID	タイトル	分類
2	Connected Health: A Case Study on Creating a Learning Health System	Connected Health
3	Quantifying Value: Leveraging the HIMSS Value Suite and Score	Leadership, Governance, Strategic Planning
4	Health Technology ? From Bench to Battlefield and Back Home	
5	Virtual Care: New Skills for Organizations and Professionals	Connected Health
6	The Changing Nature of the Informatics Workforce	Career/Workforce Development and Diversity
7	Congressional Staff Forum: The Health IT Landscape on Capitol Hill	
8	UX in HIT: A History of How We Got To Where We Are Today	Process Improvement, Workflow, Change Management
9	EHR Optimization: Why Is Meaningful Use So Difficult?	Innovative Processes, Solutions and Emerging Tech.
10	Impact of an ADC System on Medication Administration	Process Improvement, Workflow, Change Management
11	National Coordinator Spotlight Session	Leadership, Governance, Strategic Planning
12	All About HIMSS: An Orientation to YOUR Organization	
13	Rising to the Challenge: Heart Attack Prediction	Clinical and Business Intelligence
14	HRSA ? An Under-Recognized Pioneer in the Meaningful Use of Health IT	
16	Cybercrime Triage: Managing Health IT Security Risk	Privacy and Security
17	Creating the SMART Hospital of the Future with Innovation Partnerships	
18	Actionable Analytics: From Predictive Modeling to Workflows	Clinical and Business Intelligence
19	Clinical Informatics Leadership: A Profound Discussion	Leadership, Governance, Strategic Planning
20	Medical Device Patching - Factors for Strategy & Execution	Privacy and Security

ID	タイトル	分類
21	Gaining Value from Health IT	Leadership, Governance, Strategic Planning
22	OpenNotes and the Northwest OpenNotes Consortium	Consumer and Patient Engagement
23	UX in HIT Development: Vendor Perspectives	Process Improvement, Workflow, Change Management
24	Innovation Success: Identify the Impacts and Manage Results	Innovative Processes, Solutions and Emerging Tech.
25	Improving School-Based Clinic Efficiency with Telehealth	Process Improvement, Workflow, Change Management
26	CMS EHR Incentive Programs in 2015 through 2017 Overview	EHRs/Meaningful Use
27	MHS Health Information Technology Transformation	Leadership, Governance, Strategic Planning
28	Re-Imagining the Data Center as a Strategic Asset	IT Infrastructure, HIT Stds & Medical Device Integ
29	Consumer-Mediated Exchange to Support Precision Medicine: The Direct Enrollment Path	
30	The Evolution of Population Health Management	Care Coordination and Population Health
31	Limiting Impact in the Era of the Inevitable Data Breach	Privacy and Security
32	Clinical Decision Support: Current State and Roadmap for Success	Quality and Outcomes
33	Patient Identity and Digital Record Matching: A New Approach	Innovative Processes, Solutions and Emerging Tech.
34	How Future-Proof HIT Infrastructure Supports Data Sharing	Health Information Exchange and Interoperability
35	Health IT Entrepreneur's Guide to the Universe	Entrepreneurship and Venture Investment
36	Value-Based Models: Two Successful Payer-Provider Approaches	Business of Healthcare and New Payment Models
37	Using Mobile Apps to Create Active Patient Engagement	Consumer and Patient Engagement
38	Encounters-Based Photographic Imaging in Healthcare	IT Infrastructure, HIT Stds & Medical Device Integ
39	A VHA Disruptive Innovation for Pragmatic Interoperability	Innovative Processes, Solutions and Emerging

ID	タイトル	分類
		Tech.
40	The PMO: Mission-Critical for the Volume to Value Transition	Process Improvement, Workflow, Change Management
41	Privacy & Security in an App Enabled World	Privacy and Security
42	MHS EHR Functional Champions: Enabling Transformation	Clinical Informatics and Clinician Engagement
43	The Power of Data to Transform Healthcare	Clinical and Business Intelligence
44	Update from OCR: HIPAA Enforcement & Policy Developments	
45	Building a Community Care Network for High-Needs Patients	Care Coordination and Population Health
46	HIPAA Reality Check: The Gap Between Execs and IT	Privacy and Security
47	Coordinated Health: The Experience You Should Expect	Care Coordination and Population Health
48	The Internet of Things for Healthcare	IT Infrastructure, HIT Stds & Medical Device Integ
49	Data-Driven! What's holding us back?	Innovative Processes, Solutions and Emerging Tech.
50	Understanding the Challenges of Enterprise Imaging	Clinical Informatics and Clinician Engagement
51	Creating an Agile Medical Practice to Meet Consumer Demands	Business of Healthcare and New Payment Models
52	Hardwiring Technology into Care Delivery to Increase HCAHPS	Consumer and Patient Engagement
53	Cal INDEX ? A New Model for Collaboration	Health Information Exchange and Interoperability
54	Patient Matching EHR Ailments: Going from Placebo to Cure	Health Information Exchange and Interoperability
55	Implementing Perioperative IT? Don't Forget Key Components	Process Improvement, Workflow, Change Management
56	CMS Listening Session: EHR Incentive Programs in 2018 & Beyond	EHRs/Meaningful Use
57	Using EHR Data For Process Change, Throughput and Satisfaction	Process Improvement, Workflow, Change Management
58	Managing Transfusion Medicine with Predictive Analytics	Clinical and Business

ID	タイトル	分類
		Intelligence
59	Leveraging Electronic Clinical Data for Quality Measurement	Quality and Outcomes
60	Innovative Quality Improvement for Vulnerable Populations	Care Coordination and Population Health
61	Practical Cyber Threat-Based Defense for Healthcare Networks	Privacy and Security
62	How Capturing True Clinical Intent Improves Patient Care	Quality and Outcomes
63	Five States, 700 Physicians and Four Best Practices for HIEs	Health Information Exchange and Interoperability
64	Identifying Solutions for Nurses' HIT Pain Points	Human Factors, Usability and Design
65	E-Iatrogenesis: Quality Assurance as Part of Information Governance	Quality and Outcomes
66	Transformative Payment Models	Business of Healthcare and New Payment Models
67	Integrating Patient Data to Improve Medication Adherence	Consumer and Patient Engagement
68	Modernizing Medicaid Infrastructure to Support Clinical Data	IT Infrastructure, HIT Stds & Medical Device Integ
69	Reducing Minorities' Health Disparities Through Social Impact	Innovative Processes, Solutions and Emerging Tech.
70	How to Transform and Optimize a Large Scale Revenue Cycle Operation	Process Improvement, Workflow, Change Management
71	Transforming VistA Evolution through Collaboration	Leadership, Governance, Strategic Planning
72	PQRS and Alignment Opportunity - Concept to Operationalization	Quality and Outcomes
73	Improved OR Patient Flow Through RTLS-Based Visual Analytics	Clinical and Business Intelligence
74	Palliative Care: Using the EHR for Patient Care	Clinical Informatics and Clinician Engagement
75	Predictive Analytics Drives Population Health Management	Care Coordination and Population Health
76	Just Press Print: Challenges in Producing EHRs in Litigation	Leadership, Governance, Strategic Planning
77	Solving Population Health Management Challenges: One Organization's Approach	IT Infrastructure, HIT Stds & Medical Device Integ

ID	タイトル	分類
78	The Value of Standardized Care in a Public Health Crisis	Care Coordination and Population Health
79	How Accountable Care Organizations Can Harness the Power of Health Data and Analytics	Care Coordination and Population Health
80	Leaders Lead: Building a Culture of Honor in Your Workplace	Leadership, Governance, Strategic Planning
81	A Roadmap for Modernizing the Healthcare Revenue Cycle	Business of Healthcare and New Payment Models
82	From Hospital to Home: Mobile NICU Program	Connected Health
83	Sustainable HIE Models for Practices and Rural Hospitals	Health Information Exchange and Interoperability
84	Transforming the Pharmacy Supply Chain	Innovative Processes, Solutions and Emerging Tech.
85	Empowering Clinicians with Smartphone Technology	Process Improvement, Workflow, Change Management
86	Competing IT Priorities? Master Your Enterprise IT Demand	Leadership, Governance, Strategic Planning
87	Reconciling Abstracted to Electronic Quality Measures	Quality and Outcomes
88	Compliance Does Not Equal Security	Privacy and Security
89	Enhancing Patient Outcomes with Big Data: Two Case Studies	Clinical Informatics and Clinician Engagement
90	Biomedical Device Integration into an Electronic Health Record	IT Infrastructure, HIT Stds & Medical Device Integ
91	To Protect and Validate Use of Clinical Data for Simulation	Privacy and Security
92	Aligning the Enterprise and Medical Imaging: A Collaborative Approach	Process Improvement, Workflow, Change Management
93	Precision Medicine in the Information Age	Clinical Informatics and Clinician Engagement
94	Top Ten Health IT Safety Hazards...and What to Do about Them	Quality and Outcomes
95	The Medicaid IT Enterprise: Innovation and Opportunity	
96	Advancing Health Equity through Precision Medicine and HIT Innovation	Care Coordination and Population Health
97	Online Wellness in the New Era of Healthcare	Consumer and Patient Engagement
98	UX Makes All the Difference for Clinicians	Process Improvement, Workflow, Change



ID	タイトル	分類
		Management
99	Patient Identification: Biometric or Botched?	Innovative Processes, Solutions and Emerging Tech.
100	Generational Factors in Patient Engagement	Consumer and Patient Engagement
101	CMS Listening Session: Merit-Based Incentive Payment System (MIPS)	Business of Healthcare and New Payment Models
102	Data Analytics Takes the Pain Out of Pain Pill Management	Quality and Outcomes
103	Reining in Labor Costs with Predictive Analytics	Clinical and Business Intelligence
104	Staffing Strategies for the Highly Productive IT Department to Navigate Changing Workforce Dynamics	Career/Workforce Development and Diversity
105	The Population Health Imperative: A Systematic Approach to Value	Care Coordination and Population Health
106	How to Avoid Getting Sued by Your Cyber Risk Insurer	Privacy and Security
107	Patients, Physicians, Pharmacists: A New Generation of Insights	Care Coordination and Population Health
108	Aligning Leaders to Make Great Choices	Leadership, Governance, Strategic Planning
109	CMIO and CIO: Partners in Optimization and Transformation	Leadership, Governance, Strategic Planning
111	Value Benefits Project-Journey to Care Delivery Improvements	Business of Healthcare and New Payment Models
112	Comprehensive Primary Care: Our Success Story	Care Coordination and Population Health
113	UX , ROI, and the 'Bottom Line'	Process Improvement, Workflow, Change Management
114	Data and Analytics Done Right: Driving Value Creation	Innovative Processes, Solutions and Emerging Tech.
115	Patient Engagement - The Next Chapter	Consumer and Patient Engagement
116	Trends in Consumer Access and Use of Electronic Health Information	Consumer and Patient Engagement
117	Building Evidence-Based Clinical Standards into Care Flow	Quality and Outcomes
118	Developing a Cloud Security Roadmap	Privacy and Security
119	Taking Plans of Care from Clinician to Patient-Centric	Clinical Informatics and Clinician Engagement

ID	タイトル	分類
120	Strategies for Optimizing Care Coordination Across an ACO	Care Coordination and Population Health
121	Advancing Privacy Through Quality Improvement: Three Essentials	Privacy and Security
122	Critical Conversations in Transitions of Care ? Part 1	Health Information Exchange and Interoperability
123	Escalated Threats to PHI Require a New Approach to Privacy and Security	Privacy and Security
124	The Value of EMS Data in Operations, Biosurveillance and Disaster Management	Clinical and Business Intelligence
125	Encore Sessions with ONC and CMS ? Videotaped Presentations	
126	Addressing the IT Challenges for a Startup DSRIP Program	Business of Healthcare and New Payment Models
127	Leveraging Technology in a Behavioural Health Setting to Advance Care	Quality and Outcomes
128	Engaging Patients with a Patient-Focused Technology Council	Consumer and Patient Engagement
129	Rise of the Medical Scribe Industry - Risk to EHR Advancement	Innovative Processes, Solutions and Emerging Tech.
130	Having It All: Telehealth Solutions that Enhance Existing Doctor/Patient Relationships	Consumer and Patient Engagement
131	CMS Electronic Clinical Quality Measurement (eCQM) Development and Reporting	Quality and Outcomes
132	MHS Population Health Analytics: 10 Years of Lessons Learned	Care Coordination and Population Health
133	Patient Registries, Alone, Are Not Good Enough!	Care Coordination and Population Health
134	Enhance Clinical Research and Improve Outcomes with Analytics	Clinical Informatics and Clinician Engagement
135	Payment, Performance, Care Coordination, and Children's Health Homes	Care Coordination and Population Health
136	It's Your Fault! Breach Reporting in an Age of HIE	Privacy and Security
137	Critical Conversations in Transitions of Care ? Part 2	Health Information Exchange and Interoperability
138	Navigating the Health IT Policy Landscape with New Payment Models: A Primer	Business of Healthcare and New Payment Models
139	What IT Takes for Success	Process Improvement, Workflow, Change

ID	タイトル	分類
		Management
140	Shattering the Glass Ceiling: Lessons Learned for Aspiring Female Executives	Leadership, Governance, Strategic Planning
141	The Perfect Plan for Prompt and Painless Patient Payments	Business of Healthcare and New Payment Models
142	Exploiting Health IT to Improve Health	Quality and Outcomes
143	Patient Activation Using Technology-Supported Navigators	Consumer and Patient Engagement
144	EMR Surveillance Intervenes to Reduce Risk Adjusted Mortality	Innovative Processes, Solutions and Emerging Tech.
145	A Value-Based Project Management Approach to Optimizations	Process Improvement, Workflow, Change Management
146	Safety, Interoperability, and Usability ? What's My Role?	Health Information Exchange and Interoperability
147	EHR Modernization Effort: A Single Enterprise Solution	EHRs/Meaningful Use
148	Collaborative e-Care: HIE for Enhanced Care	Clinical and Business Intelligence
149	Seven Essentials in Clinical Information Technology Adoption	Clinical Informatics and Clinician Engagement
150	Enhanced Home Healthcare Coordination for Veterans	Care Coordination and Population Health
151	Five Steps to Managing Business Associate Risk	Privacy and Security
152	CMIO Roundtable Presented by the HIMSS Physician Community (by invitation only)	
153	The Power of Real-Time Analytics at the Point of Care	Clinical Informatics and Clinician Engagement
154	Gamification in Revenue Management to Boost Cash Collection	Business of Healthcare and New Payment Models
155	IT Transformation: Revenue Cycle Insights from the CIO	Career/Workforce Development and Diversity
156	Communication and EHR Integration Improves Patient Experience	IT Infrastructure, HIT Stds & Medical Device Integ
157	HIT Innovations to Build an Empowering and Learning Culture	Process Improvement, Workflow, Change Management
158	HIE Applications in Emergency Medical Services Settings	Health Information Exchange and Interoperability
159	Systemic Management of Medical Device Cybersecurity	Privacy and Security

ID	タイトル	分類
160	The ROI for Electronic Vital Sign Equipment at Every Bedside	Process Improvement, Workflow, Change Management
161	VA's Data Sharing and Interoperability Strategies	Health Information Exchange and Interoperability
162	DoD EHR Modernization Effort: Acquisition Lessons Learned	Leadership, Governance, Strategic Planning
163	Leveraging EDW for Information-Driven Decision Making	Clinical and Business Intelligence
164	Real-Time Data, Predictive Analytics Can Reduce Infections	Clinical Informatics and Clinician Engagement
165	Integrated EHR Data and Its Impact on Pioneer ACO Quality Programs	Care Coordination and Population Health
166	Managing Customer Communications in a Cybersecurity Crisis	Privacy and Security
167	Relationships Are the Future of Healthcare	Consumer and Patient Engagement
168	Health Informatics: The Pulse of the Industry	Career/Workforce Development and Diversity
169	Secure and Reliable Data Exchange with IoT Devices	Connected Health
170	Rural Care Coordination: HIT Best Practices in Rural Networks	Care Coordination and Population Health
171	Coding for Care: Using Data Analytics for Risk Adjustment	Business of Healthcare and New Payment Models
172	The Road To Achieving the Davies Award!	Leadership, Governance, Strategic Planning
173	Negotiating One of the Largest HIE Agreements in History	Health Information Exchange and Interoperability
174	Evaluating Semantic Technology to Enhance EHR Visualization	Innovative Processes, Solutions and Emerging Tech.
175	Hard Truth About A Soft Go Live "New Recipe for Success"	Process Improvement, Workflow, Change Management
176	Analytic-Driven Quality Keys: Success in Risk-Based Contracts	Quality and Outcomes
177	Putting the Patient at the Center of our Health Information Revolution	Leadership, Governance, Strategic Planning
178	Reducing HVIS Procedure Costs Through Data Transparency	Clinical and Business Intelligence

ID	タイトル	分類
179	Alert Fatigue: Improving Alert Impact by Reducing Noise	Clinical Informatics and Clinician Engagement
180	Best Practices in Secure Communication in Acute Care	Care Coordination and Population Health
181	Data Security: Stepping Up Your Game and Assessing Threats	Privacy and Security
182	Uncovering Value in Healthcare Data with Cognitive Analytics	Clinical and Business Intelligence
183	OIG 101: An Introduction to the HHS OIG	EHRs/Meaningful Use
185	Nutrition on FHIRR: Burning Calories & More For Your EHR	IT Infrastructure, HIT Stds & Medical Device Integ
186	Report from the Frontline: A Panel of Carequality Members	Health Information Exchange and Interoperability
187	Delivering Value with IT: Grass Roots to Planned Projects	Process Improvement, Workflow, Change Management
188	What Does the Evidence Tell Us About UX?	Process Improvement, Workflow, Change Management
189	Deploying Smartphones with EMR Intelligence	Innovative Processes, Solutions and Emerging Tech.
190	Closed-Loop Performance Management Improves Clinical Results	Process Improvement, Workflow, Change Management
191	VistA Evolution EHR Initiatives in 2016-2018	Leadership, Governance, Strategic Planning
192	RTLS 2.0: Enterprise Visibility Revolutionizes Healthcare	Quality and Outcomes
193	The Drive Towards Value-Based Care	Clinical and Business Intelligence
194	Reducing Clinical Variation via the Collaborative Model	Clinical Informatics and Clinician Engagement
195	A Vision for Connected Care	Care Coordination and Population Health
196	Telehealth ? Engaging Patients and Improving Outcomes	Consumer and Patient Engagement
197	Overcoming the Largest Obstacle to EHR Exchange: One HIE's Story	Health Information Exchange and Interoperability
198	Driving Outcomes by Scaling Population Health Management	Quality and Outcomes

ID	タイトル	分類
199	Moving Targets: Assessing the Security of Mobile Devices in Healthcare	Privacy and Security
200	Digital Healthcare: Evolving Business Models	Business of Healthcare and New Payment Models
201	Navigating Connected Health in a Data-Driven World	Connected Health, Consumer and Patient Engagement
202	Utilizing EMR to Improve Clinical Quality Outcomes	Quality and Outcomes
203	Creating A Shared Vision: The Roadmap for Successful User-Centered HIT	Process Improvement, Workflow, Change Management
204	Improving Physician Efficiency and Patient Care with EPCS	Innovative Processes, Solutions and Emerging Tech.
205	What Do You Do When Your Improvement Project Fails?	Process Improvement, Workflow, Change Management
206	Evolution of Data Governance in Healthcare? Does it Ever End?	Leadership, Governance, Strategic Planning
207	Pharmacogenomics and the EHR	EHRs/Meaningful Use
208	Cybersecurity: Vulnerabilities, Attacks, and Mitigating Against Threats	Privacy and Security
209	Create Real-Time Actionable Outcomes Using Data Warehouses	Clinical Informatics and Clinician Engagement
210	Integrating EMS for Care Coordination and Disaster Response	Care Coordination and Population Health
211	Build Your Own Privacy Monitoring Tool for ePHI Repositories	Privacy and Security
212	The Value of Agile Self-Service Analytics: A Case Study of Enterprise Excellence	Clinical and Business Intelligence
213	Wired to Save Lives: A Virtual Hospital Experience	Innovative Processes, Solutions and Emerging Tech.
214	Best Practices for Protecting Against Cyber Attacks	Privacy and Security
215	Advanced Issues in HIT Contracts and Negotiation Strategies	Business of Healthcare and New Payment Models
216	The Patient Financial Experience: Link to Satisfaction and More	Consumer and Patient Engagement
217	Health Data Exchange and Reuse in Long-Term Post-Acute Care	Health Information Exchange and Interoperability
218	Establishing Order in Time of Chaos: IT Incident	Process Improvement,

ID	タイトル	分類
	Management	Workflow, Change Management
219	Redesigning Mental Health: Technology Driving Outcomes	EHRs/Meaningful Use
220	Understanding the 2015 Edition: Meaningful Use & Other Use Cases	IT Infrastructure, HIT Stds & Medical Device Integ
221	Medicare Value-Based Payment and Quality Reporting	Quality and Outcomes
222	Consumer-Driven Care and the Push Towards Better Population Health	Care Coordination and Population Health
223	Order Source Misattribution: The Impact on CPOE Metrics	Clinical Informatics and Clinician Engagement
224	A Digital Prescription for More Effective Nursing Practice	Care Coordination and Population Health
225	Assessing the Risk of Your Medical Devices	Privacy and Security
226	Developing a Learning Healthcare System	Business of Healthcare and New Payment Models
227	UX Design: Five Steps For Designing "Healthy" Clinical Apps	Human Factors, Usability and Design
228	Applying Cognitive Computing to Population Health	Consumer and Patient Engagement
229	EMR in Support of Smoking Cessation Counseling	EHRs/Meaningful Use
230	Watch and Learn: Transforming Patient Education	Consumer and Patient Engagement
231	International Exchange and Crisis Support: New Roles for HIEs	Health Information Exchange and Interoperability
232	Successfully Utilizing APIs for Integration Projects	Innovative Processes, Solutions and Emerging Tech.
233	Taming Length of Stay Challenges Through Analytics	Process Improvement, Workflow, Change Management
234	CMS Person and Family Engagement: Incentivizing Advances that Matter to Consumers	Consumer and Patient Engagement
235	Hands-Free Communication Improves Patient Care and Safety	Innovative Processes, Solutions and Emerging Tech.
236	When EHRs Cause Patient Harm: Lessons from Malpractice	Quality and Outcomes
237	The Challenges Archiving Clinical Multimedia	Clinical Informatics and Clinician Engagement
238	Radically Reforming ER "Super Utilizers" with HIE	Care Coordination and

ID	タイトル	分類
		Population Health
239	Securing Your Agile, Mobile Clinicians: Breach Case Study	Privacy and Security
240	Survive Splitting an EHR into Private and Public Entities	EHRs/Meaningful Use
241	A Connected Hospital and Connected Community Partnership	Connected Health
242	Establishing a Health IT Innovation Program: Early Successes	Leadership, Governance, Strategic Planning
243	EHR 2020: Charting the Course to a Better Future	EHRs/Meaningful Use
244	HRSA Rural Health IT Workforce Program Outcomes	Career/Workforce Development and Diversity
245	Sustainability, Health IT and Social Security Disability	Health Information Exchange and Interoperability
246	Gamification: The Synergies in Health and Games	Innovative Processes, Solutions and Emerging Tech.
247	Sepsis Bio-Surveillance Program at Dignity Health	Process Improvement, Workflow, Change Management
248	Improving Workflow and Increasing Efficiencies with the CMS esMD Electronic Solution	Health Information Exchange and Interoperability
249	Achieving Interoperability with VA & Private Sector Partners	Health Information Exchange and Interoperability
250	Leveraging Data Quality Through Predictive Text Entries	Quality and Outcomes
251	Predicting Inpatient Census with Viral Surveillance Data	Clinical Informatics and Clinician Engagement
252	Volume-Based to Value-Based Care at a Pioneer ACO	Care Coordination and Population Health
253	Using Analytics to Enhance Clinical Outcomes	Clinical and Business Intelligence
254	The Positive Impact of Application and Desktop Virtualization (VDI) on Health IT	IT Infrastructure, HIT Stds & Medical Device Integ
255	A How-To Guide on Transitioning IT Projects to Support	Process Improvement, Workflow, Change Management
256	HL7 Argonaut Project: One Year Later	Innovative Processes, Solutions and Emerging Tech.
257	Taking a Pulse on Information Governance Adoption in	Leadership, Governance,



ID	タイトル	分類
	Healthcare	Strategic Planning
258	Price Transparency: Bringing Providers to the Table	Business of Healthcare and New Payment Models
259	Replacing Your EHR? Ensuring Successful Adoption of a Replacement EHR	Leadership, Governance, Strategic Planning
260	Health Information Exchange: Substance Abuse Patient Records	Health Information Exchange and Interoperability
261	From Legacy Analytics to a Big Data Analytics Ecosystem	Innovative Processes, Solutions and Emerging Tech.
262	Next-Generation Remote Patient Monitoring for Heart Failure	Connected Health
263	Building a Multifaceted Team for Data-Driven Transformation	Leadership, Governance, Strategic Planning
264	Cybersecurity: You and I Are the Weakest Links	Privacy and Security
265	Developing an ED Facility Charge Level Calculator	Clinical Informatics and Clinician Engagement
266	Clinical Registries: Catalysts for Improving Health Outcomes	Clinical Informatics and Clinician Engagement
267	Community Practice Achieves PCMH Designation in Six Months	Care Coordination and Population Health
268	Predictive Analytics to Reduce Data Breach Risk	Privacy and Security
271	Patient Engagement: No Diamond Ring Required	Consumer and Patient Engagement
273	The Adoption and Impact of HIT in U.S. Nursing Homes	EHRs/Meaningful Use
274	Switching EHRs and Maintaining a Strong Revenue Cycle	Business of Healthcare and New Payment Models
275	Shared Responsibility in Improving Alarm Safety	Human Factors, Usability and Design
277	Planting Seeds: Developing a Mature Health IT Team	Career/Workforce Development and Diversity
278	Minimizing Alarm Fatigue with Data in Daily Shift Reports	Process Improvement, Workflow, Change Management
280	Telehealth Program Strategies and Business Plans Revealed	Leadership, Governance, Strategic Planning
282	Accountable Care for End-Stage Renal Disease Patients	Business of Healthcare and New Payment Models
284	Patient Engagement Beyond Patient Portal-Strategic Approach	Consumer and Patient Engagement
285	Optimizing Drug-Dose Checking to Minimize Alert	Human Factors, Usability

ID	タイトル	分類
	Fatigue	and Design
286	When is Optimization Not Enough?	Innovative Processes, Solutions and Emerging Tech.
287	Change Management: Increasing Your Odds for Success	Process Improvement, Workflow, Change Management
300	Lessons Learned and Best Practices from Rural Telemedicine	Connected Health
301	Too Many Patient Portals ? What Can You Do About It?	Care Coordination and Population Health
304	10 Essential Point-of-Care Applications for Health Providers	Clinical Informatics and Clinician Engagement
305	Conversations on Nursing's Health IT User Experiences	Human Factors, Usability and Design
306	Create Chronic Disease Services Using Secure Social Networks	Care Coordination and Population Health
307	Clinical Transformation: A Change Management Success Story	Process Improvement, Workflow, Change Management
308	Rise of the Intelligent Machines in Healthcare	Innovative Processes, Solutions and Emerging Tech.
309	Building a 'Road Map' for Social Media in Public Health	Care Coordination and Population Health
IS02	Cerner's Strategy for Advancing Interoperability	Health Information Exchange and Interoperability
IS03	Device Connectivity Across the Continuum of Care	Health Information Exchange and Interoperability
IS04	The Path to Infusion Device Connectivity to the EMR	Health Information Exchange and Interoperability
IS05	Improving Interoperability by Improving C-CDA Data Quality	Health Information Exchange and Interoperability
IS06	Federate? Migrate? Capitulate? ACO Driven Interoperability & Workflow	Health Information Exchange and Interoperability
IS07	Understanding Virtual Care	Health Information Exchange and

ID	タイトル	分類
		Interoperability
IS08	Content Interoperability: Achieving Clinical Data Quality Success	Health Information Exchange and Interoperability
IS09	Discover the True Value of a Patient's Comprehensive Health Story	Health Information Exchange and Interoperability
IS10	How Cable Keeps Healthcare Well Connected	Health Information Exchange and Interoperability
IS11	Philips HealthSuite Digital Platform and Interoperability	Health Information Exchange and Interoperability
IS12	Introducing the New Conformity Assessment Program from IHE International	Health Information Exchange and Interoperability
IS13	Retrieving Form Data from Epic Using RFD Standard Enhancement	Health Information Exchange and Interoperability
IS14	TBD	Health Information Exchange and Interoperability
IS15	IHE USA Case Study: Impact of IHE Profiles on Patient Care	Health Information Exchange and Interoperability
IS19	Interoperability and the Journey to Value-based Reimbursement	Health Information Exchange and Interoperability
IS20	Navigating Your Path to Seamless Data Exchange	Health Information Exchange and Interoperability
IS21	Developing a New Smart Device with Seamless EHR Integration	IT Infrastructure, HIT Stds & Medical Device Integ
IS22	EHR Integration of the ASCVD Risk Estimator App Utilizing FHIR	Health Information Exchange and Interoperability
IS23	ConCert by HIMSS: The Trusted Solution for Interoperability	Health Information Exchange and Interoperability
IS24	Health Data Exchange. Really.	Health Information Exchange and Interoperability

ID	タイトル	分類
IS25	Government Collaboration in Action	Health Information Exchange and Interoperability
IS26	Push the Envelope, Get Outcomes	Health Information Exchange and Interoperability
IS27	Manage Non-DICOM Images within an Enterprise	Health Information Exchange and Interoperability
IS28	Interoperability in Acute Care: The Missing Piece	IT Infrastructure, HIT Stds & Medical Device Integ
IS29	BlueButton on FHIR: Consumer Directed Health Data Interoperability	Health Information Exchange and Interoperability
IS30	Patient Matching A-Z	Health Information Exchange and Interoperability
IS31	Presentation by UCSF and Cisco	Health Information Exchange and Interoperability
IS32	Improving Population Health Using Data	Health Information Exchange and Interoperability
IS33	ConCert Certified Product Vendor Experience	Health Information Exchange and Interoperability
IS35	The Evolution of HL7 FHIR Implementation Across the Healthcare Continuum	IT Infrastructure, HIT Stds & Medical Device Integ
IS36	Electronic Clinical Quality Measures, Standards and Interoperability	Health Information Exchange and Interoperability
IS37	Close the Loop Between Chronically Ill Patients & Providers	Connected Health
IS38	Decoding the Interoperability Testing and Certification Landscape	Health Information Exchange and Interoperability
IS39	Moving the Industry Forward: Revenue Cycle Management Solutions of the Future	Business of Healthcare and New Payment Models
IS40	The Sequoia Project & Spreading Interoperability	Health Information Exchange and Interoperability
IS41	Implementing a Program to Advance	Health Information

ID	タイトル	分類
	Immunization-Related Capabilities within EHRs & Other Clinical Software	Exchange and Interoperability
IS42	ConCert by HIMSS Certified Product Award Ceremony	Health Information Exchange and Interoperability
IS43	Healthcare Delivery Platform. A Single Source Solution In A Consumer Driven Ecosystem	Health Information Exchange and Interoperability
IS44	San Diego Health Connect Advances Adoption of Community HIE	Health Information Exchange and Interoperability
IS45	Medical Interoperability Architectures - Alignment of IHE Profiles & AAMI UL 2800	Innovative Processes, Solutions and Emerging Tech.
KEYDEL L	HIMSS16 Opening Keynote Sessions ? Featuring Two Presentations	
KEYPEY	Keynote Speaker: Peyton Manning	

## 4.2 表 2 分類別

ID	タイトル	分類
36	Value-Based Models: Two Successful Payer-Provider Approaches	Business of Healthcare and New Payment Models
51	Creating an Agile Medical Practice to Meet Consumer Demands	Business of Healthcare and New Payment Models
66	Transformative Payment Models	Business of Healthcare and New Payment Models
81	A Roadmap for Modernizing the Healthcare Revenue Cycle	Business of Healthcare and New Payment Models
101	CMS Listening Session: Merit-Based Incentive Payment System (MIPS)	Business of Healthcare and New Payment Models
111	Value Benefits Project-Journey to Care Delivery Improvements	Business of Healthcare and New Payment Models
126	Addressing the IT Challenges for a Startup DSRIP Program	Business of Healthcare and New Payment Models
138	Navigating the Health IT Policy Landscape with New Payment Models: A Primer	Business of Healthcare and New Payment Models
141	The Perfect Plan for Prompt and Painless Patient Payments	Business of Healthcare and New Payment Models
154	Gamification in Revenue Management to Boost Cash Collection	Business of Healthcare and New Payment Models
171	Coding for Care: Using Data Analytics for Risk Adjustment	Business of Healthcare and New Payment Models
200	Digital Healthcare: Evolving Business Models	Business of Healthcare and New Payment Models
215	Advanced Issues in HIT Contracts and Negotiation Strategies	Business of Healthcare and New Payment Models
226	Developing a Learning Healthcare System	Business of Healthcare and New Payment Models
258	Price Transparency: Bringing Providers to the Table	Business of Healthcare and New Payment Models
274	Switching EHRs and Maintaining a Strong Revenue Cycle	Business of Healthcare and New Payment Models
282	Accountable Care for End-Stage Renal Disease Patients	Business of Healthcare and New Payment Models
IS39	Moving the Industry Forward: Revenue Cycle Management Solutions of the Future	Business of Healthcare and New Payment Models
30	The Evolution of Population Health Management	Care Coordination and Population Health
45	Building a Community Care Network for High-Needs	Care Coordination and

ID	タイトル	分類
	Patients	Population Health
47	Coordinated Health: The Experience You Should Expect	Care Coordination and Population Health
60	Innovative Quality Improvement for Vulnerable Populations	Care Coordination and Population Health
75	Predictive Analytics Drives Population Health Management	Care Coordination and Population Health
78	The Value of Standardized Care in a Public Health Crisis	Care Coordination and Population Health
79	How Accountable Care Organizations Can Harness the Power of Health Data and Analytics	Care Coordination and Population Health
96	Advancing Health Equity through Precision Medicine and HIT Innovation	Care Coordination and Population Health
105	The Population Health Imperative: A Systematic Approach to Value	Care Coordination and Population Health
107	Patients, Physicians, Pharmacists: A New Generation of Insights	Care Coordination and Population Health
112	Comprehensive Primary Care: Our Success Story	Care Coordination and Population Health
120	Strategies for Optimizing Care Coordination Across an ACO	Care Coordination and Population Health
132	MHS Population Health Analytics: 10 Years of Lessons Learned	Care Coordination and Population Health
133	Patient Registries, Alone, Are Not Good Enough!	Care Coordination and Population Health
135	Payment, Performance, Care Coordination, and Children's Health Homes	Care Coordination and Population Health
150	Enhanced Home Healthcare Coordination for Veterans	Care Coordination and Population Health
165	Integrated EHR Data and Its Impact on Pioneer ACO Quality Programs	Care Coordination and Population Health
170	Rural Care Coordination: HIT Best Practices in Rural Networks	Care Coordination and Population Health
180	Best Practices in Secure Communication in Acute Care	Care Coordination and Population Health
195	A Vision for Connected Care	Care Coordination and Population Health
210	Integrating EMS for Care Coordination and Disaster Response	Care Coordination and Population Health
222	Consumer-Driven Care and the Push Towards Better Population Health	Care Coordination and Population Health
224	A Digital Prescription for More Effective Nursing Practice	Care Coordination and

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		Population Health
238	Radically Reforming ER “Super Utilizers” with HIE	Care Coordination and Population Health
252	Volume-Based to Value-Based Care at a Pioneer ACO	Care Coordination and Population Health
267	Community Practice Achieves PCMH Designation in Six Months	Care Coordination and Population Health
301	Too Many Patient Portals ? What Can You Do About It?	Care Coordination and Population Health
306	Create Chronic Disease Services Using Secure Social Networks	Care Coordination and Population Health
309	Building a ‘Road Map’ for Social Media in Public Health	Care Coordination and Population Health
6	The Changing Nature of the Informatics Workforce	Career/Workforce Development and Diversity
104	Staffing Strategies for the Highly Productive IT Department to Navigate Changing Workforce Dynamics	Career/Workforce Development and Diversity
155	IT Transformation: Revenue Cycle Insights from the CIO	Career/Workforce Development and Diversity
168	Health Informatics: The Pulse of the Industry	Career/Workforce Development and Diversity
244	HRSA Rural Health IT Workforce Program Outcomes	Career/Workforce Development and Diversity
277	Planting Seeds: Developing a Mature Health IT Team	Career/Workforce Development and Diversity
13	Rising to the Challenge: Heart Attack Prediction	Clinical and Business Intelligence
18	Actionable Analytics: From Predictive Modeling to Workflows	Clinical and Business Intelligence
43	The Power of Data to Transform Healthcare	Clinical and Business Intelligence
58	Managing Transfusion Medicine with Predictive Analytics	Clinical and Business Intelligence
73	Improved OR Patient Flow Through RTLS-Based Visual Analytics	Clinical and Business Intelligence
103	Reining in Labor Costs with Predictive Analytics	Clinical and Business Intelligence
124	The Value of EMS Data in Operations, Biosurveillance and Disaster Management	Clinical and Business Intelligence
148	Collaborative e-Care: HIE for Enhanced Care	Clinical and Business Intelligence
163	Leveraging EDW for Information-Driven Decision Making	Clinical and Business



ID	タイトル	分類
		Intelligence
178	Reducing HVIS Procedure Costs Through Data Transparency	Clinical and Business Intelligence
182	Uncovering Value in Healthcare Data with Cognitive Analytics	Clinical and Business Intelligence
193	The Drive Towards Value-Based Care	Clinical and Business Intelligence
212	The Value of Agile Self-Service Analytics: A Case Study of Enterprise Excellence	Clinical and Business Intelligence
253	Using Analytics to Enhance Clinical Outcomes	Clinical and Business Intelligence
42	MHS EHR Functional Champions: Enabling Transformation	Clinical Informatics and Clinician Engagement
50	Understanding the Challenges of Enterprise Imaging	Clinical Informatics and Clinician Engagement
74	Palliative Care: Using the EHR for Patient Care	Clinical Informatics and Clinician Engagement
89	Enhancing Patient Outcomes with Big Data: Two Case Studies	Clinical Informatics and Clinician Engagement
93	Precision Medicine in the Information Age	Clinical Informatics and Clinician Engagement
119	Taking Plans of Care from Clinician to Patient-Centric	Clinical Informatics and Clinician Engagement
134	Enhance Clinical Research and Improve Outcomes with Analytics	Clinical Informatics and Clinician Engagement
149	Seven Essentials in Clinical Information Technology Adoption	Clinical Informatics and Clinician Engagement
153	The Power of Real-Time Analytics at the Point of Care	Clinical Informatics and Clinician Engagement
164	Real-Time Data, Predictive Analytics Can Reduce Infections	Clinical Informatics and Clinician Engagement
179	Alert Fatigue: Improving Alert Impact by Reducing Noise	Clinical Informatics and Clinician Engagement
194	Reducing Clinical Variation via the Collaborative Model	Clinical Informatics and Clinician Engagement
209	Create Real-Time Actionable Outcomes Using Data Warehouses	Clinical Informatics and Clinician Engagement
223	Order Source Misattribution: The Impact on CPOE Metrics	Clinical Informatics and Clinician Engagement
237	The Challenges Archiving Clinical Multimedia	Clinical Informatics and Clinician Engagement
251	Predicting Inpatient Census with Viral Surveillance Data	Clinical Informatics and

ID	タイトル	分類
		Clinician Engagement
265	Developing an ED Facility Charge Level Calculator	Clinical Informatics and Clinician Engagement
266	Clinical Registries: Catalysts for Improving Health Outcomes	Clinical Informatics and Clinician Engagement
304	10 Essential Point-of-Care Applications for Health Providers	Clinical Informatics and Clinician Engagement
2	Connected Health: A Case Study on Creating a Learning Health System	Connected Health
5	Virtual Care: New Skills for Organizations and Professionals	Connected Health
82	From Hospital to Home: Mobile NICU Program	Connected Health
169	Secure and Reliable Data Exchange with IoT Devices	Connected Health
201	Navigating Connected Health in a Data-Driven World	Connected Health
241	A Connected Hospital and Connected Community Partnership	Connected Health
262	Next-Generation Remote Patient Monitoring for Heart Failure	Connected Health
300	Lessons Learned and Best Practices from Rural Telemedicine	Connected Health
IS37	Close the Loop Between Chronically Ill Patients & Providers	Connected Health
22	OpenNotes and the Northwest OpenNotes Consortium	Consumer and Patient Engagement
37	Using Mobile Apps to Create Active Patient Engagement	Consumer and Patient Engagement
52	Hardwiring Technology into Care Delivery to Increase HCAHPS	Consumer and Patient Engagement
67	Integrating Patient Data to Improve Medication Adherence	Consumer and Patient Engagement
97	Online Wellness in the New Era of Healthcare	Consumer and Patient Engagement
100	Generational Factors in Patient Engagement	Consumer and Patient Engagement
115	Patient Engagement - The Next Chapter	Consumer and Patient Engagement
116	Trends in Consumer Access and Use of Electronic Health Information	Consumer and Patient Engagement
128	Engaging Patients with a Patient-Focused Technology Council	Consumer and Patient Engagement
130	Having It All: Telehealth Solutions that Enhance Existing Doctor/Patient Relationships	Consumer and Patient Engagement

ID	タイトル	分類
143	Patient Activation Using Technology-Supported Navigators	Consumer and Patient Engagement
167	Relationships Are the Future of Healthcare	Consumer and Patient Engagement
196	Telehealth ? Engaging Patients and Improving Outcomes	Consumer and Patient Engagement
201	Navigating Connected Health in a Data-Driven World	Consumer and Patient Engagement
216	The Patient Financial Experience: Link to Satisfaction and More	Consumer and Patient Engagement
228	Applying Cognitive Computing to Population Health	Consumer and Patient Engagement
230	Watch and Learn: Transforming Patient Education	Consumer and Patient Engagement
234	CMS Person and Family Engagement: Incentivizing Advances that Matter to Consumers	Consumer and Patient Engagement
271	Patient Engagement: No Diamond Ring Required	Consumer and Patient Engagement
284	Patient Engagement Beyond Patient Portal-Strategic Approach	Consumer and Patient Engagement
26	CMS EHR Incentive Programs in 2015 through 2017 Overview	EHRs/Meaningful Use
56	CMS Listening Session: EHR Incentive Programs in 2018 & Beyond	EHRs/Meaningful Use
147	EHR Modernization Effort: A Single Enterprise Solution	EHRs/Meaningful Use
183	OIG 101: An Introduction to the HHS OIG	EHRs/Meaningful Use
207	Pharmacogenomics and the EHR	EHRs/Meaningful Use
219	Redesigning Mental Health: Technology Driving Outcomes	EHRs/Meaningful Use
229	EMR in Support of Smoking Cessation Counseling	EHRs/Meaningful Use
240	Survive Splitting an EHR into Private and Public Entities	EHRs/Meaningful Use
243	EHR 2020: Charting the Course to a Better Future	EHRs/Meaningful Use
273	The Adoption and Impact of HIT in U.S. Nursing Homes	EHRs/Meaningful Use
35	Health IT Entrepreneur's Guide to the Universe	Entrepreneurship and Venture Investment
34	How Future-Proof HIT Infrastructure Supports Data Sharing	Health Information Exchange and Interoperability
53	Cal INDEX ? A New Model for Collaboration	Health Information Exchange and Interoperability
54	Patient Matching EHR Ailments: Going from Placebo to Cure	Health Information Exchange and

ID	タイトル	分類
		Interoperability
63	Five States, 700 Physicians and Four Best Practices for HIEs	Health Information Exchange and Interoperability
83	Sustainable HIE Models for Practices and Rural Hospitals	Health Information Exchange and Interoperability
122	Critical Conversations in Transitions of Care ? Part 1	Health Information Exchange and Interoperability
137	Critical Conversations in Transitions of Care ? Part 2	Health Information Exchange and Interoperability
146	Safety, Interoperability, and Usability ? What's My Role?	Health Information Exchange and Interoperability
158	HIE Applications in Emergency Medical Services Settings	Health Information Exchange and Interoperability
161	VA's Data Sharing and Interoperability Strategies	Health Information Exchange and Interoperability
173	Negotiating One of the Largest HIE Agreements in History	Health Information Exchange and Interoperability
186	Report from the Frontline: A Panel of Carequality Members	Health Information Exchange and Interoperability
197	Overcoming the Largest Obstacle to EHR Exchange: One HIE's Story	Health Information Exchange and Interoperability
217	Health Data Exchange and Reuse in Long-Term Post-Acute Care	Health Information Exchange and Interoperability
231	International Exchange and Crisis Support: New Roles for HIEs	Health Information Exchange and Interoperability
245	Sustainability, Health IT and Social Security Disability	Health Information Exchange and Interoperability
248	Improving Workflow and Increasing Efficiencies with the CMS esMD Electronic Solution	Health Information Exchange and

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249	Achieving Interoperability with VA & Private Sector Partners	Health Information Exchange and Interoperability
260	Health Information Exchange: Substance Abuse Patient Records	Health Information Exchange and Interoperability
IS02	Cerner's Strategy for Advancing Interoperability	Health Information Exchange and Interoperability
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IS04	The Path to Infusion Device Connectivity to the EMR	Health Information Exchange and Interoperability
IS05	Improving Interoperability by Improving C-CDA Data Quality	Health Information Exchange and Interoperability
IS06	Federate? Migrate? Capitulate? ACO Driven Interoperability & Workflow	Health Information Exchange and Interoperability
IS07	Understanding Virtual Care	Health Information Exchange and Interoperability
IS08	Content Interoperability: Achieving Clinical Data Quality Success	Health Information Exchange and Interoperability
IS09	Discover the True Value of a Patient's Comprehensive Health Story	Health Information Exchange and Interoperability
IS10	How Cable Keeps Healthcare Well Connected	Health Information Exchange and Interoperability
IS11	Philips HealthSuite Digital Platform and Interoperability	Health Information Exchange and Interoperability
IS12	Introducing the New Conformity Assessment Program from IHE International	Health Information Exchange and Interoperability
IS13	Retrieving Form Data from Epic Using RFD Standard Enhancement	Health Information Exchange and

ID	タイトル	分類
IS14	TBD	Interoperability Health Information Exchange and Interoperability
IS15	IHE USA Case Study: Impact of IHE Profiles on Patient Care	Health Information Exchange and Interoperability
IS19	Interoperability and the Journey to Value-based Reimbursement	Health Information Exchange and Interoperability
IS20	Navigating Your Path to Seamless Data Exchange	Health Information Exchange and Interoperability
IS22	EHR Integration of the ASCVD Risk Estimator App Utilizing FHIR	Health Information Exchange and Interoperability
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IS29	BlueButton on FHIR: Consumer Directed Health Data Interoperability	Health Information Exchange and Interoperability
IS30	Patient Matching A-Z	Health Information Exchange and Interoperability
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IS32	Improving Population Health Using Data	Health Information Exchange and

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		Interoperability
IS33	ConCert Certified Product Vendor Experience	Health Information Exchange and Interoperability
IS36	Electronic Clinical Quality Measures, Standards and Interoperability	Health Information Exchange and Interoperability
IS38	Decoding the Interoperability Testing and Certification Landscape	Health Information Exchange and Interoperability
IS40	The Sequoia Project & Spreading Interoperability	Health Information Exchange and Interoperability
IS41	Implementing a Program to Advance Immunization-Related Capabilities within EHRs & Other Clinical Software	Health Information Exchange and Interoperability
IS42	ConCert by HIMSS Certified Product Award Ceremony	Health Information Exchange and Interoperability
IS43	Healthcare Delivery Platform. A Single Source Solution In A Consumer Driven Ecosystem	Health Information Exchange and Interoperability
IS44	San Diego Health Connect Advances Adoption of Community HIE	Health Information Exchange and Interoperability
64	Identifying Solutions for Nurses' HIT Pain Points	Human Factors, Usability and Design
227	UX Design: Five Steps For Designing "Healthy" Clinical Apps	Human Factors, Usability and Design
275	Shared Responsibility in Improving Alarm Safety	Human Factors, Usability and Design
285	Optimizing Drug-Dose Checking to Minimize Alert Fatigue	Human Factors, Usability and Design
305	Conversations on Nursing's Health IT User Experiences	Human Factors, Usability and Design
9	EHR Optimization: Why Is Meaningful Use So Difficult?	Innovative Processes, Solutions and Emerging Tech.
24	Innovation Success: Identify the Impacts and Manage Results	Innovative Processes, Solutions and Emerging Tech.
33	Patient Identity and Digital Record Matching: A New	Innovative Processes,

ID	タイトル	分類
	Approach	Solutions and Emerging Tech.
39	A VHA Disruptive Innovation for Pragmatic Interoperability	Innovative Processes, Solutions and Emerging Tech.
49	Data-Driven! What's holding us back?	Innovative Processes, Solutions and Emerging Tech.
69	Reducing Minorities' Health Disparities Through Social Impact	Innovative Processes, Solutions and Emerging Tech.
84	Transforming the Pharmacy Supply Chain	Innovative Processes, Solutions and Emerging Tech.
99	Patient Identification: Biometric or Botched?	Innovative Processes, Solutions and Emerging Tech.
114	Data and Analytics Done Right: Driving Value Creation	Innovative Processes, Solutions and Emerging Tech.
129	Rise of the Medical Scribe Industry - Risk to EHR Advancement	Innovative Processes, Solutions and Emerging Tech.
144	EMR Surveillance Intervenes to Reduce Risk Adjusted Mortality	Innovative Processes, Solutions and Emerging Tech.
174	Evaluating Semantic Technology to Enhance EHR Visualization	Innovative Processes, Solutions and Emerging Tech.
189	Deploying Smartphones with EMR Intelligence	Innovative Processes, Solutions and Emerging Tech.
204	Improving Physician Efficiency and Patient Care with EPCS	Innovative Processes, Solutions and Emerging Tech.
213	Wired to Save Lives: A Virtual Hospital Experience	Innovative Processes, Solutions and Emerging Tech.
232	Successfully Utilizing APIs for Integration Projects	Innovative Processes, Solutions and Emerging Tech.
235	Hands-Free Communication Improves Patient Care and	Innovative Processes,



ID	タイトル	分類
	Safety	Solutions and Emerging Tech.
246	Gamification: The Synergies in Health and Games	Innovative Processes, Solutions and Emerging Tech.
256	HL7 Argonaut Project: One Year Later	Innovative Processes, Solutions and Emerging Tech.
261	From Legacy Analytics to a Big Data Analytics Ecosystem	Innovative Processes, Solutions and Emerging Tech.
286	When is Optimization Not Enough?	Innovative Processes, Solutions and Emerging Tech.
308	Rise of the Intelligent Machines in Healthcare	Innovative Processes, Solutions and Emerging Tech.
IS45	Medical Interoperability Architectures - Alignment of IHE Profiles & AAMI UL 2800	Innovative Processes, Solutions and Emerging Tech.
28	Re-Imagining the Data Center as a Strategic Asset	IT Infrastructure, HIT Stds & Medical Device Integ
38	Encounters-Based Photographic Imaging in Healthcare	IT Infrastructure, HIT Stds & Medical Device Integ
48	The Internet of Things for Healthcare	IT Infrastructure, HIT Stds & Medical Device Integ
68	Modernizing Medicaid Infrastructure to Support Clinical Data	IT Infrastructure, HIT Stds & Medical Device Integ
77	Solving Population Health Management Challenges: One Organization's Approach	IT Infrastructure, HIT Stds & Medical Device Integ
90	Biomedical Device Integration into an Electronic Health Record	IT Infrastructure, HIT Stds & Medical Device Integ
156	Communication and EHR Integration Improves Patient Experience	IT Infrastructure, HIT Stds & Medical Device Integ
185	Nutrition on FHIRR: Burning Calories & More For Your EHR	IT Infrastructure, HIT Stds & Medical Device Integ
220	Understanding the 2015 Edition: Meaningful Use & Other Use Cases	IT Infrastructure, HIT Stds & Medical Device Integ
254	The Positive Impact of Application and Desktop Virtualization (VDI) on Health IT	IT Infrastructure, HIT Stds & Medical Device Integ
IS21	Developing a New Smart Device with Seamless EHR Integration	IT Infrastructure, HIT Stds & Medical Device Integ

ID	タイトル	分類
IS28	Interoperability in Acute Care: The Missing Piece	IT Infrastructure, HIT Stds & Medical Device Integ
IS35	The Evolution of HL7 FHIR Implementation Across the Healthcare Continuum	IT Infrastructure, HIT Stds & Medical Device Integ
3	Quantifying Value: Leveraging the HIMSS Value Suite and Score	Leadership, Governance, Strategic Planning
11	National Coordinator Spotlight Session	Leadership, Governance, Strategic Planning
19	Clinical Informatics Leadership: A Profound Discussion	Leadership, Governance, Strategic Planning
21	Gaining Value from Health IT	Leadership, Governance, Strategic Planning
27	MHS Health Information Technology Transformation	Leadership, Governance, Strategic Planning
71	Transforming VistA Evolution through Collaboration	Leadership, Governance, Strategic Planning
76	Just Press Print: Challenges in Producing EHRs in Litigation	Leadership, Governance, Strategic Planning
80	Leaders Lead: Building a Culture of Honor in Your Workplace	Leadership, Governance, Strategic Planning
86	Competing IT Priorities? Master Your Enterprise IT Demand	Leadership, Governance, Strategic Planning
108	Aligning Leaders to Make Great Choices	Leadership, Governance, Strategic Planning
109	CMIO and CIO: Partners in Optimization and Transformation	Leadership, Governance, Strategic Planning
140	Shattering the Glass Ceiling: Lessons Learned for Aspiring Female Executives	Leadership, Governance, Strategic Planning
162	DoD EHR Modernization Effort: Acquisition Lessons Learned	Leadership, Governance, Strategic Planning
172	The Road To Achieving the Davies Award!	Leadership, Governance, Strategic Planning
177	Putting the Patient at the Center of our Health Information Revolution	Leadership, Governance, Strategic Planning
191	VistA Evolution EHR Initiatives in 2016-2018	Leadership, Governance, Strategic Planning
206	Evolution of Data Governance in Healthcare? Does it Ever End?	Leadership, Governance, Strategic Planning
242	Establishing a Health IT Innovation Program: Early Successes	Leadership, Governance, Strategic Planning
257	Taking a Pulse on Information Governance Adoption in Healthcare	Leadership, Governance, Strategic Planning

ID	タイトル	分類
259	Replacing Your EHR? Ensuring Successful Adoption of a Replacement EHR	Leadership, Governance, Strategic Planning
263	Building a Multifaceted Team for Data-Driven Transformation	Leadership, Governance, Strategic Planning
280	Telehealth Program Strategies and Business Plans Revealed	Leadership, Governance, Strategic Planning
16	Cybercrime Triage: Managing Health IT Security Risk	Privacy and Security
20	Medical Device Patching - Factors for Strategy & Execution	Privacy and Security
31	Limiting Impact in the Era of the Inevitable Data Breach	Privacy and Security
41	Privacy & Security in an App Enabled World	Privacy and Security
46	HIPAA Reality Check: The Gap Between Execs and IT	Privacy and Security
61	Practical Cyber Threat-Based Defense for Healthcare Networks	Privacy and Security
88	Compliance Does Not Equal Security	Privacy and Security
91	To Protect and Validate Use of Clinical Data for Simulation	Privacy and Security
106	How to Avoid Getting Sued by Your Cyber Risk Insurer	Privacy and Security
118	Developing a Cloud Security Roadmap	Privacy and Security
121	Advancing Privacy Through Quality Improvement: Three Essentials	Privacy and Security
123	Escalated Threats to PHI Require a New Approach to Privacy and Security	Privacy and Security
136	It's Your Fault! Breach Reporting in an Age of HIE	Privacy and Security
151	Five Steps to Managing Business Associate Risk	Privacy and Security
159	Systemic Management of Medical Device Cybersecurity	Privacy and Security
166	Managing Customer Communications in a Cybersecurity Crisis	Privacy and Security
181	Data Security: Stepping Up Your Game and Assessing Threats	Privacy and Security
199	Moving Targets: Assessing the Security of Mobile Devices in Healthcare	Privacy and Security
208	Cybersecurity: Vulnerabilities, Attacks, and Mitigating Against Threats	Privacy and Security
211	Build Your Own Privacy Monitoring Tool for ePHI Repositories	Privacy and Security
214	Best Practices for Protecting Against Cyber Attacks	Privacy and Security
225	Assessing the Risk of Your Medical Devices	Privacy and Security
239	Securing Your Agile, Mobile Clinicians: Breach Case Study	Privacy and Security
264	Cybersecurity: You and I Are the Weakest Links	Privacy and Security
268	Predictive Analytics to Reduce Data Breach Risk	Privacy and Security
8	UX in HIT: A History of How We Got To Where We Are Today	Process Improvement, Workflow, Change

ID	タイトル	分類
		Management
10	Impact of an ADC System on Medication Administration	Process Improvement, Workflow, Change Management
23	UX in HIT Development: Vendor Perspectives	Process Improvement, Workflow, Change Management
25	Improving School-Based Clinic Efficiency with Telehealth	Process Improvement, Workflow, Change Management
40	The PMO: Mission-Critical for the Volume to Value Transition	Process Improvement, Workflow, Change Management
55	Implementing Perioperative IT? Don't Forget Key Components	Process Improvement, Workflow, Change Management
57	Using EHR Data For Process Change, Throughput and Satisfaction	Process Improvement, Workflow, Change Management
70	How to Transform and Optimize a Large Scale Revenue Cycle Operation	Process Improvement, Workflow, Change Management
85	Empowering Clinicians with Smartphone Technology	Process Improvement, Workflow, Change Management
92	Aligning the Enterprise and Medical Imaging: A Collaborative Approach	Process Improvement, Workflow, Change Management
98	UX Makes All the Difference for Clinicians	Process Improvement, Workflow, Change Management
113	UX , ROI, and the 'Bottom Line'	Process Improvement, Workflow, Change Management
139	What IT Takes for Success	Process Improvement, Workflow, Change Management
145	A Value-Based Project Management Approach to Optimizations	Process Improvement, Workflow, Change Management
157	HIT Innovations to Build an Empowering and Learning Culture	Process Improvement, Workflow, Change

ID	タイトル	分類
		Management
160	The ROI for Electronic Vital Sign Equipment at Every Bedside	Process Improvement, Workflow, Change Management
175	Hard Truth About A Soft Go Live "New Recipe for Success"	Process Improvement, Workflow, Change Management
187	Delivering Value with IT: Grass Roots to Planned Projects	Process Improvement, Workflow, Change Management
188	What Does the Evidence Tell Us About UX?	Process Improvement, Workflow, Change Management
190	Closed-Loop Performance Management Improves Clinical Results	Process Improvement, Workflow, Change Management
203	Creating A Shared Vision: The Roadmap for Successful User-Centered HIT	Process Improvement, Workflow, Change Management
205	What Do You Do When Your Improvement Project Fails?	Process Improvement, Workflow, Change Management
218	Establishing Order in Time of Chaos: IT Incident Management	Process Improvement, Workflow, Change Management
233	Taming Length of Stay Challenges Through Analytics	Process Improvement, Workflow, Change Management
247	Sepsis Bio-Surveillance Program at Dignity Health	Process Improvement, Workflow, Change Management
255	A How-To Guide on Transitioning IT Projects to Support	Process Improvement, Workflow, Change Management
278	Minimizing Alarm Fatigue with Data in Daily Shift Reports	Process Improvement, Workflow, Change Management
287	Change Management: Increasing Your Odds for Success	Process Improvement, Workflow, Change Management
307	Clinical Transformation: A Change Management Success Story	Process Improvement, Workflow, Change

ID	タイトル	分類
		Management
32	Clinical Decision Support: Current State and Roadmap for Success	Quality and Outcomes
59	Leveraging Electronic Clinical Data for Quality Measurement	Quality and Outcomes
62	How Capturing True Clinical Intent Improves Patient Care	Quality and Outcomes
65	E-Iatrogenesis: Quality Assurance as Part of Information Governance	Quality and Outcomes
72	PQRS and Alignment Opportunity - Concept to Operationalization	Quality and Outcomes
87	Reconciling Abstracted to Electronic Quality Measures	Quality and Outcomes
94	Top Ten Health IT Safety Hazards...and What to Do about Them	Quality and Outcomes
102	Data Analytics Takes the Pain Out of Pain Pill Management	Quality and Outcomes
117	Building Evidence-Based Clinical Standards into Care Flow	Quality and Outcomes
127	Leveraging Technology in a Behavioural Health Setting to Advance Care	Quality and Outcomes
131	CMS Electronic Clinical Quality Measurement (eCQM) Development and Reporting	Quality and Outcomes
142	Exploiting Health IT to Improve Health	Quality and Outcomes
176	Analytic-Driven Quality Keys: Success in Risk-Based Contracts	Quality and Outcomes
192	RTLS 2.0: Enterprise Visibility Revolutionizes Healthcare	Quality and Outcomes
198	Driving Outcomes by Scaling Population Health Management	Quality and Outcomes
202	Utilizing EMR to Improve Clinical Quality Outcomes	Quality and Outcomes
221	Medicare Value-Based Payment and Quality Reporting	Quality and Outcomes
236	When EHRs Cause Patient Harm: Lessons from Malpractice	Quality and Outcomes
250	Leveraging Data Quality Through Predictive Text Entries	Quality and Outcomes

### 4.3 表3 テーマ配分表

HIMSS16			HIMSS15			HIMSS14		
番号	分類名	件数	番号	分類名	件数	番号	分類名	件数
1	Business of Healthcare and New Payment Models	18	2	Changing Payment Models	5			
2	Care Coordination and Population Health	29	22	Transition of Care: Coordination & Management	8	1	Care Coordination	11
			18	Population Health	10	18	Population Health	6
3	Career/Workforce Development and Diversity	6	1	Career Development & Workforce Diversity	5	2	Career Development & Workforce Diversity	5
4	Clinical and Business Intelligence	14	3	Clinical & Business Intelligence	14	3	Clinical & Business Intelligence	14
5	Clinical Informatics and Clinician Engagement	19	4	Clinical Informatics	11	4	Clinical Decision Support	7
			5	Consumer Health	6	5	Consumer Health	4
6	Connected Health	9	16	Mobile, Connected Health & Telehealth	9	15	Mobile Health	7
7	Consumer and Patient Engagement	20	17	Provider & Patient Engagement	16	16	Patient Engagement	11
8	EHRs/Meaningful Use	10	6	EHRs	9	6	EHRs/Enterprise Information Systems	18
			15	Meaningful Use	6	14	Meaningful Use	7
9	Entrepreneurship and Venture Investment	1						
			7	Financial Information Systems & Business Operations	4	7	Financial Info Systems & Bus Ops and Optimization	6
10	Health Information Exchange and Interoperability	54	8	Health Information Exchange	10	8	Health Information Exchange	15
11	Human Factors, Usability and Design	5	9	Human Factors, Usability & Design	5	9	Human Factors, Usability & Design	5
12	Innovative Processes, Solutions and Emerging Tech.	23	11	Innovation	8	10	Innovation Drives Value and ROI	10
13	IT Infrastructure, HIT Stds & Medical Device Integ	13	12	IT Infrastructure	8	11	IT Infrastructure	6
			13	IT Standards and Interoperability/Medical Device Integration	8	12	IT Standards and Interoperability/Medical Device Integration	7
14	Leadership, Governance, Strategic Planning	22	14	Leadership/Governance/Strategic Planning	20	13	Leadership/Governance/Strategic Planning	36
15	Privacy and Security	25	19	Privacy & Security	13	19	Privacy & Security	13
16	Process Improvement, Workflow, Change Management	29	20	Process Improvement, Workflow, Change Management/Clinician Engagement	16	20	Process Improvement, Workflow, Change Management/Clinician Engagement	18
17	Quality and Outcomes	19	21	Quality Management	8			
			10	Improving Quality & Patient Safety Outcomes	19			

## 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
CPT codes	Current Procedural Terminology codes
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	Electrophysiology
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 Modification	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

私は今回が初めての HIMSS 参加でしたが、日本国内の学会や展示会と比べて、その規模の大きさとショーとしての完成度に驚きました。オープニングはレーザービームとダンサーによるパフォーマンス、クロージングではアメリカンフットボール界のスーパースターである Peyton Manning 氏の登壇で会場は大盛り上がりでした。



何かと批判も多いオバマケアですが、アメと鞭を駆使し、電子カルテを普及させて、データを採取する土台を整備した点は高く評価できると思います。既に多くの出展企業の視線は集まったデータをどのようにビジネスに活用していくかという未来に向かっていました。

日本国内では個人情報の取り扱いについては慎重論も多い中、利活用を促進する検討も進められているようです。本報告書が会員各社の事業発展の一助となれば幸いです。

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