

### **APIs - Why They Matter**

**Enabling HIPAA Right of Access** 

+

**Key to Interoperability** 

\_

**Patient Safety** 

## National HIPAA Summit

March 4, 2020

Bettina Experton, M.D., M.P.H.

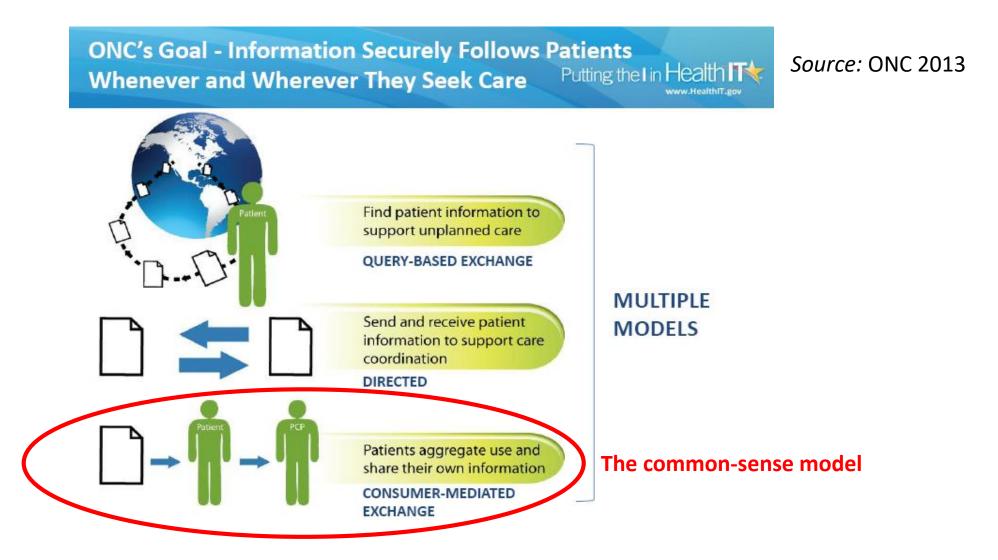
@BettinaExperton

#### APIs Practically Enable Individuals' Right of Access

- Individuals' Right under HIPAA to Access their Health Information 45 CFR § 164.524 is about "Providing individuals with easy access to their health information to empower them to be more in control of decisions regarding their health and well-being."
- With the use of an API-enabled app of their choice, individuals requesting and accessing their health information can exercise their "Right of Access" pursuant to the HIPAA privacy rule, and "without special effort" under the ONC interoperability proposed rule.
- Without use of standard based API-enabled apps of an individual's choice, individuals are left with no practical means to exercise their Right of Access: forced to use to multiple portals or provider/payer specific apps, with the inability to consolidate their information in one place.

#### Why Are Open APIs Needed to Deliver Interoperability?

To enable Consumer-Mediated Exchange because Provider-Directed Exchange Never Scaled

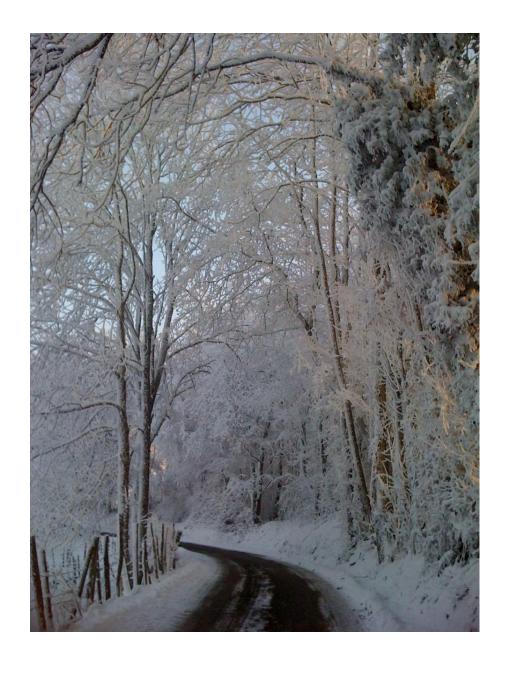


#### Consumer – Mediated Exchange: the Common-Sense Model



If there is "Information Blocking" on the provider side...

why not give patients access and use of their own data for them to use and share with their providers?



"It is our patients who will lead us out of this wilderness"

Joseph Schneider, M.D., M.B.A Former CMIO, Baylor Health Care System, and Chair, Council on Clinical Information Technology, American Academy of Pediatrics

## Standardized APIs Are at the Core of HHS Proposed Rules for Patient Access and Interoperability

In response to the 21<sup>st</sup> Century Cures Act to cure *Information Blocking*, HHS published on March 4, 2019:

- the CMS Interoperability & Patient Access Proposed Rule,
- the ONC 21st Century Cure Act Interoperability Proposed Rule.

Both require either health plans or providers to make use of standards-based open **HL7 FHIR APIs** for patient to access their health information at no cost and with their smartphone application of choice.

# The ONC Proposed Rule Is Designed to Give Patients and Providers Access with the Adoption of Standardized APIs



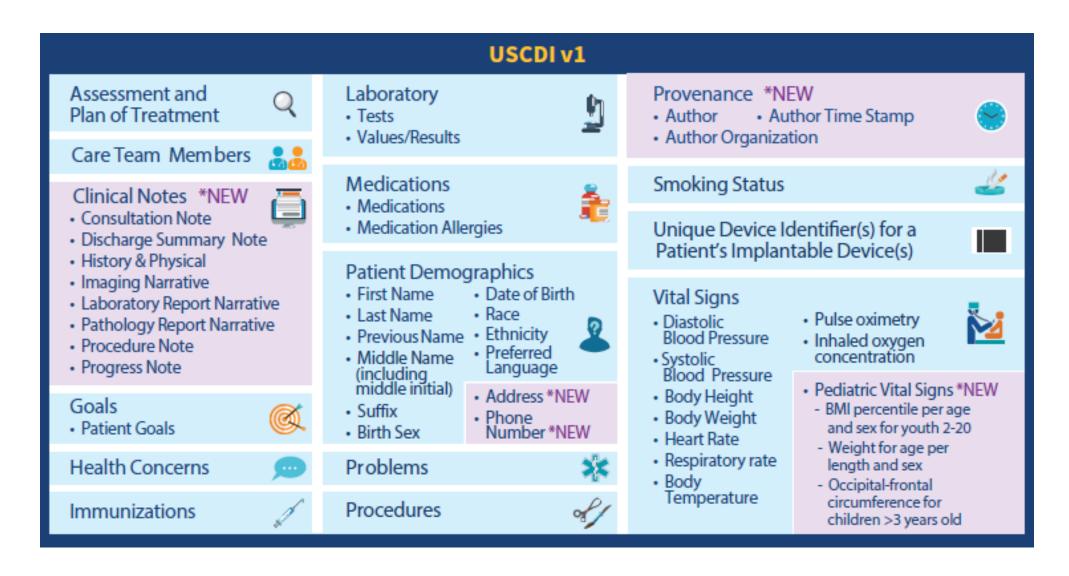
To implement the 21<sup>st</sup> Century Cures Act and improve interoperability, the ONC Certification Requirements of its NPRM calls on HIT developers to:

- Publish APIs to allow health information to be accessed, exchanged and used without special effort
- Abide to new EHR API certification requirements.

## ONC Certification Criteria for APIs Address Data Format, Access Authentication and Authorization

- The use of the Health Level 7 HL7®FHIR® standard along with a set of implementation specifications that would provide known technical requirements against which app developers and other innovative services can be built.
- APIs providing patients electronic access to their EHI (including physician clinical notes) at no cost and with their application of choice.
- Secure connections that include authentication and authorization capabilities in ways that enable, for example, patients to use an app to access their EHI without needing to log-in each time they use the app.

## U.S. Core Data For Interoperability: USCDI Moving Beyond the Common Clinical Data Set



#### **ONC Proposed Rule API Certification Criterion**

#### **API Requirements:**

- Certified APIs would need to use the OAuth 2.0 security standard, widely used in industry
- APIs would need to be able to establish a secure and trusted connection with apps that request data
- App registration required
- Barrier-free registration process no longer than five business days to first verify the authenticity of the developer associated with an app seeking to be registered.
- Approved apps to be registered and enabled within one business day of completing developer verification
- And more likely to come....

#### **Security:**

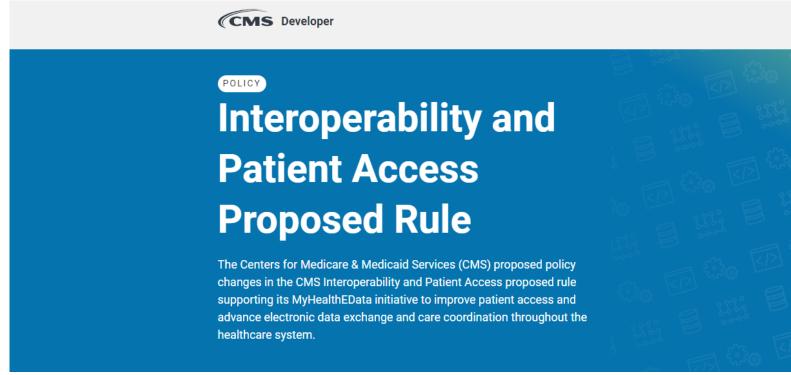
"Patients complete the authentication process directly with their health care provider, no app will have access to their specific credentials."

#### **Privacy:**

"Patients will be able to limit the data they authorize their apps to access."



# The CMS Proposed Rule Gives Patients Access to Their Claim Data with the Adoption of Standardized APIs

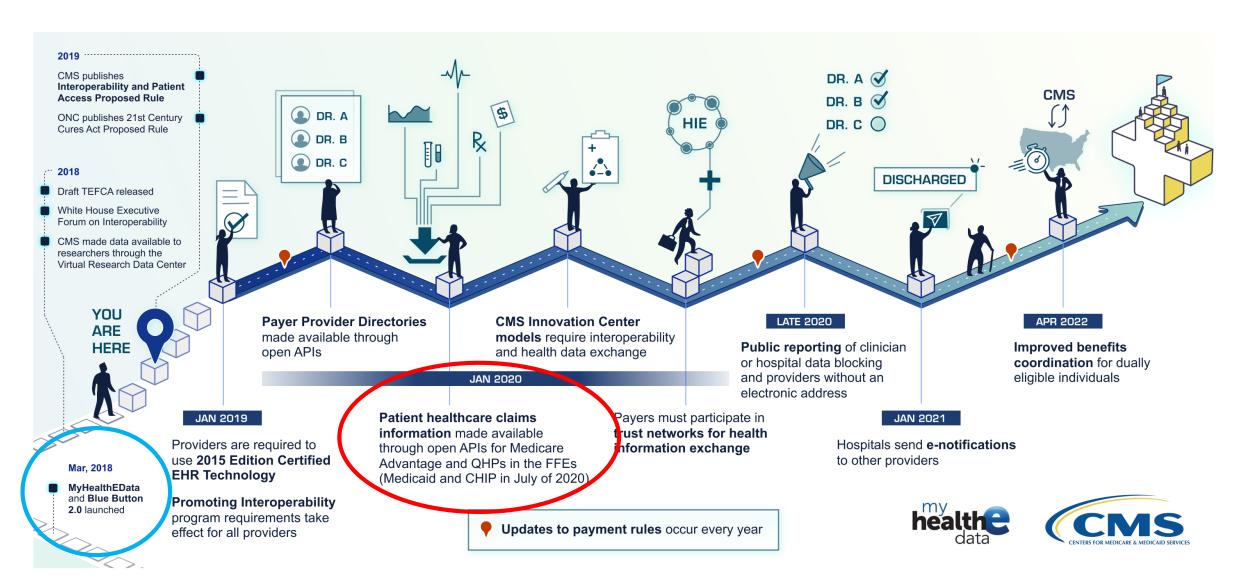


Patient Access Through APIs
empowers patients by ensuring access
and use of their healthcare data while
keeping it safe and secure.

Having timely electronic access to health information makes it easier for people to make more informed decisions about their healthcare needs.

Similar to the CMS' Blue Button 2.0 program, Medicare Advantage (MA) organizations, state Medicaid and CHIP FFS programs, Medicaid managed care plans, CHIP managed care entities, and QHP issuers in FFEs will be required to implement openly-published HL7® based APIs to make patient claims and other health information available to patients through third-party applications and developers.

## The CMS Proposed Rule Will Give Medicare Advantage Plan Enrollees Access to Their Claim Data with an API-Enabled App of Their Choice, as All Medicare FFS Beneficiaries Can Do Today with a Blue Button App



#### Opposing Forces to Open APIs Invoke the Privacy Risk – is This Real?



### **Epic CEO sends letter urging hospitals to oppose HHS data-sharing rule**

Epic CEO Judy Faulkner wrote an email to CEOs and presidents of hospital systems urging them to oppose rules the Department of Health and Human Services proposed in 2019.

Source: www.cnbc.com



## ONC's Rucker calls out hospital leaders who signed **Epic's opposition letter**

WASHINGTON, D.C.—Federal health IT leader Donald Rucker, M.D., said "Most of their customers did not sign on to that letter," Rucker said. "If you parse out the big academic medical centers, only three out of 100 AMCs signed on."

Source: www.fiercehealthcare.com

#### HHS Leadership Rejects Scare Tactics to Derail API Rules



"I want to be quite clear: Patients need and deserve control over their records," **HHS Secretary Alex Azar** said at the *ONC's annual meeting on January* . "Unfortunately, **some are defending the balkanized, outdated status quo** and fighting our proposals fiercely." He added: "Scare tactics are not going to stop the reforms we need."



And CMS Administrator Seema Verma at the Center for Consumer Information and Insurance Oversight's Industry Day said on January 29 that "disingenuous efforts by certain private actors to use privacy - vital as it is - as a pretext for holding patient data hostage is an embarrassment to the industry."

#### With a "Privacy by Design" Architecture, Patient-Facing Apps like iBlueButton Offer Unmatched Privacy & Security Protection



#### HUMETRIX STATEMENT OF IBLUEBUTTON APP PRIVACY PRACTICES

The following is Humetrix's full statement of privacy practices for its iBlueButton app A SHORTER PRIVACY NOTICE IS AVAILABLE HERE

Humetrix is dedicated to protecting the privacy rights of users of the App. Our policies with respect to the handling of personal information with respect described within this Privacy Statement.

We may change, add, or remove portions of this Statement of Privacy Practices at any time, and such changes shall become effective immediately up CONTINUED USE OF THE APP FOLLOWING THE POSTING OF CHANGES TO THE PRIVACY POLICY WILL MEAN THAT THE USER ACCEPT

#### Information We Collect, Why We Collect It and Who Sees It.

Humetrix automatically collects technical data and related information about the user's device, operating system and application software that is gather facilitate the provision of application updates, identify problems with the application, and provide product support to the user of the App. This informati identify the user.

Humetrix automatically collects information that does not personally identify you about the use of the App, such as information indicating that the App that the App has been used to retrieve a patient record. The App is not supported via advertising and does not use the data it collects for advertising

#### Information We Do Not Collect

Patients who use the App control the entry or receipt of individually identifiable health information when using the App. This information includes demi (name, address and date of birth), information about the patient's past, present or future physical or mental health conditions, health care services the past, present or future payment for healthcare. Humetrix does not collect this information. This information resides on the user's smartphone or tablet accessible by Humetrix.

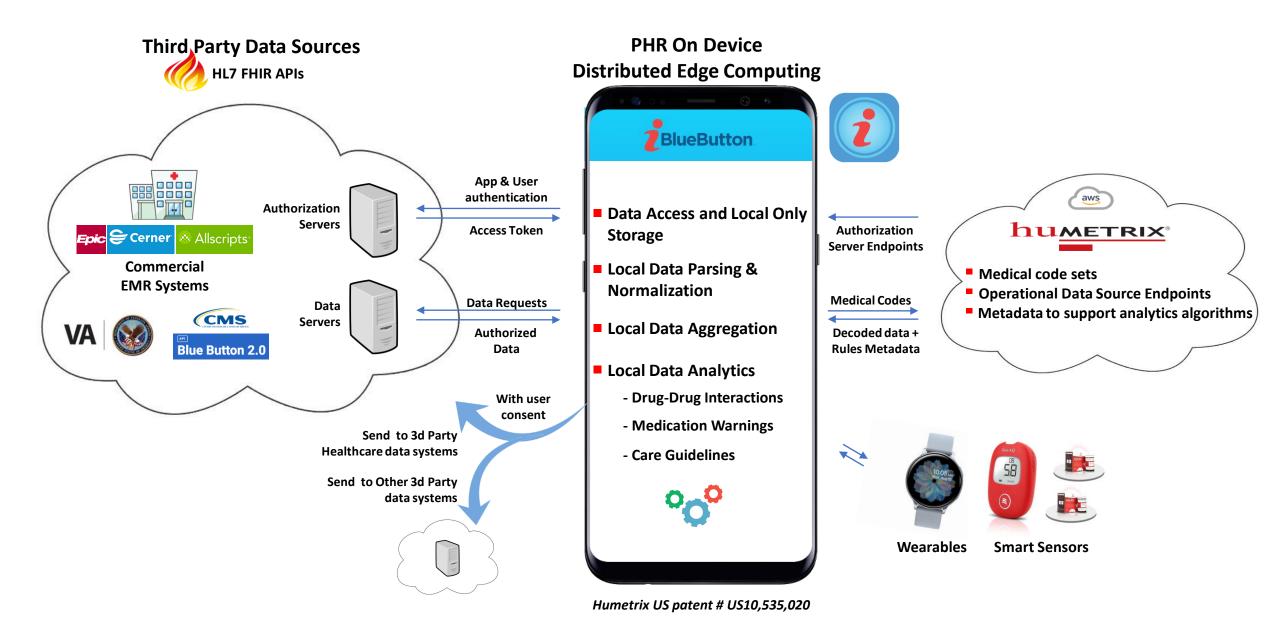
The App allow users to take photos from within the App. Humetrix does not collect or have access to any information that the user stores through the functionalities.

The App does not collect personally identifiable information about a user's online activities over time and across third-party Web sites or online service collect precise information about the location of a user's mobile device.

Users may choose to backup encrypted information to the iCloud server (for iPhone App users) or to Google Drive (for Android App users). No backul Humetrix.

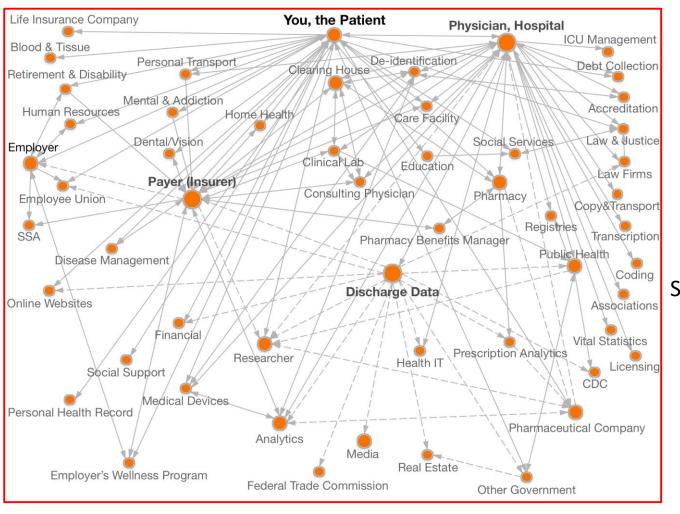


#### iBlueButton "Privacy by Design" Architecture



# **API-enabled Apps: Patient-Controlled Data Pull & Share** VS.

### Data Sharing Under HIPAA: A Maze with Lack of Patient Control

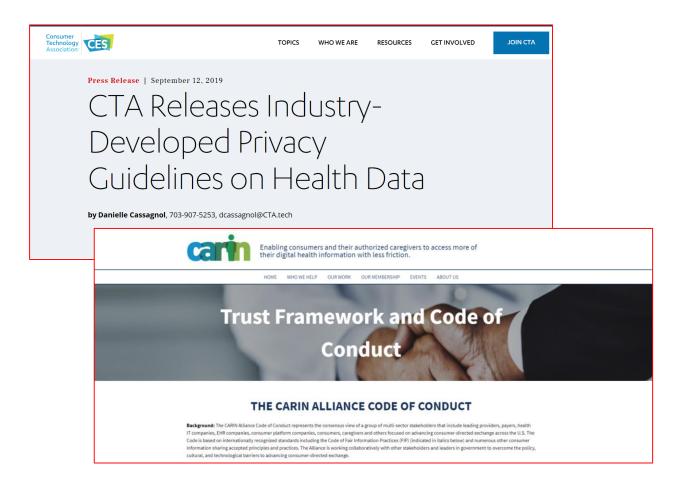


Source: The HealthDataMap

Copyright © 2012-2016 President and Fellows Harvard University.

#### It's Not the Wild West!

#### Government and Industry Have Privacy & Security Protections in Place











### Why 61M Medicare Beneficiaries & Their Caregivers Need Access via APIs? To Prevent Diagnostic Errors, Redundancies and Waste

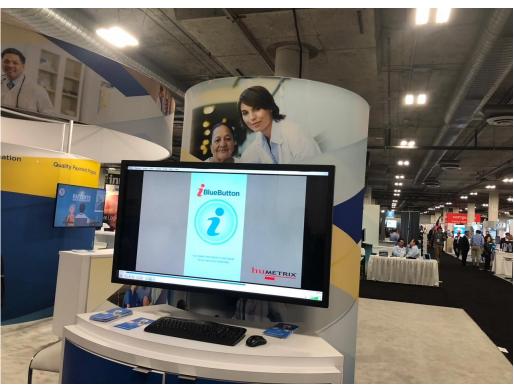
In a given year, the average Medicare patient visits...



400,000 Americans die every year of preventable medical errors
20% of these deaths are caused by a lack of the patient history at the point of care
1/3 healthcare expenses are wasted in medical errors or redundant care

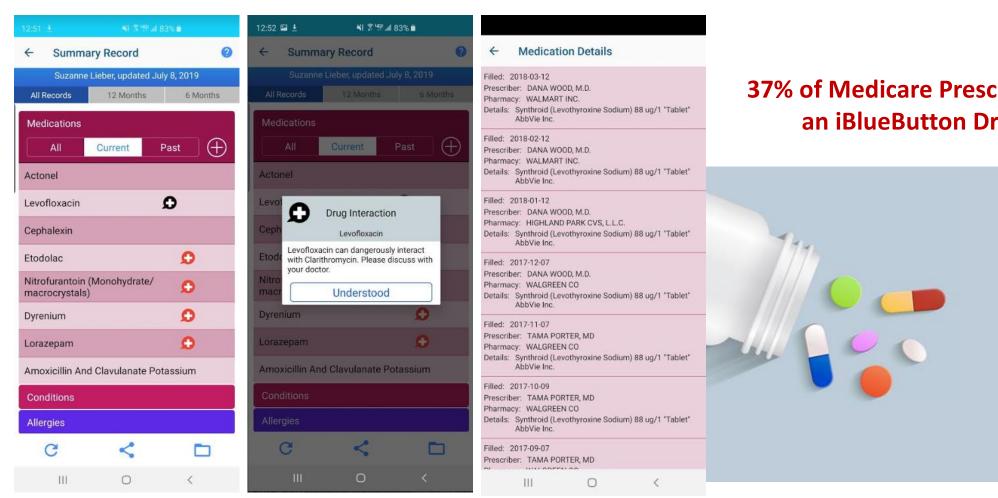
## CMS Blue Button 2.0 API - launched in 2018 for All Medicare FFS Beneficiaries to Access their Medical Data: the API Model for ONC & CMS Rules





Diagnoses + Medications + Providers + Preventive Services
Outpatient encounters + Hospitalizations + ED Visits
Surgical Procedures + Laboratory & Radiology + Financial Data

### How API-Enabled Patient Facing Apps Can Be Life-Saving: The Common and Prevalent ADE Example



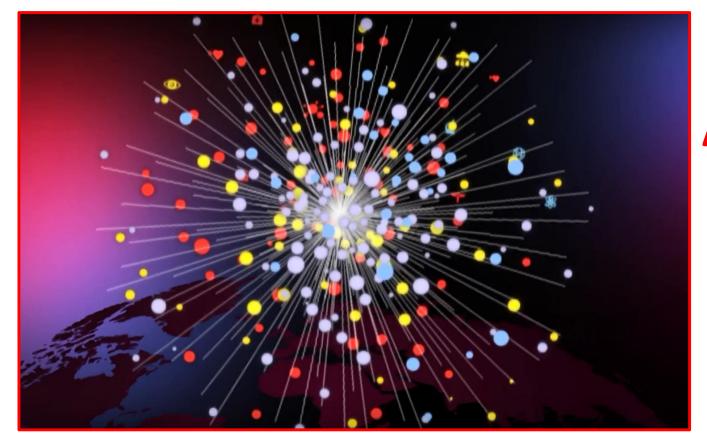
#### **37% of Medicare Prescriptions produce** an iBlueButton Drug Warning

iBlueButton uniquely gives you personalized guidance and warnings about dangerous drug interactions, specific medications to be avoided or best care practices for various medical conditions.









## **APIs - Do Matter**

**Enabling HIPAA Right of Access** 

+

**Key to Interoperability** 

=

**Patient Safety** 

### National HIPAA Summit

March 4, 2020

Bettina Experton, M.D., M.P.H.

@BettinaExperton