



## Connecting the Dots

How Open Data, APIs, and Care Model Code can Fuel Value-Based Care Delivery

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**Online Registration System**  
Ministry of Electronics & Information Technology  
Government of India

### Frequently Asked Questions

Follow the simple steps below and get your appointment fixed online!

1. Verify yourself using Mobile No.
2. Choose Hospital / Department
3. Select date of appointment
4. Verify yourself using Aadhaar Number
5. Get confirmation sms

**BOOK APPOINTMENT**

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## Earning Patient Trust via Blue Button Request

**Sign in to MyMedicare.gov to continue**

Enter your User name and Password and sign in to MyMedicare.gov to continue.

User name

Password

**Sign In** **Cancel**

[Trouble Signing In?](#)

New To MyMedicare.gov? [Create an Account](#)

[Online Services/ Web confidentiality agreement](#)

**Medicare.gov**  
 The Official U.S. Government Site for Medicare

**Do you approve the application TestApp to access your Medicare information?**

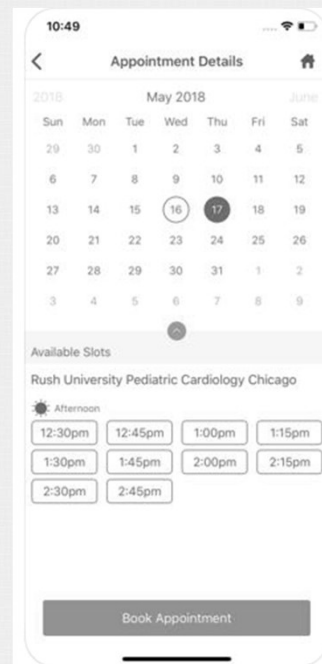
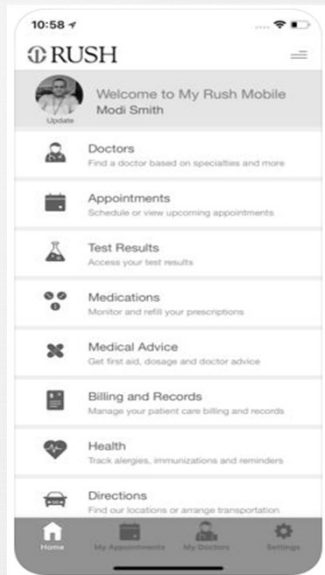
**TestApp WILL BE ABLE TO:**

- Access at least 3 years worth of Medicare claims information.
- Access your profile and demographic information.
- Create copies of your Medicare data.
- Get updates to your Medicare data so long as you do not revoke access.

**Yes, approve access.**

**No, do not approve access.**

CMS calls on MA plans to “meet or exceed” Blue Button FHIR API by CY2020, considering regulation; Rush UMC launching one of the inaugural “Blue Button” apps to aid consumers in navigating care delivery options

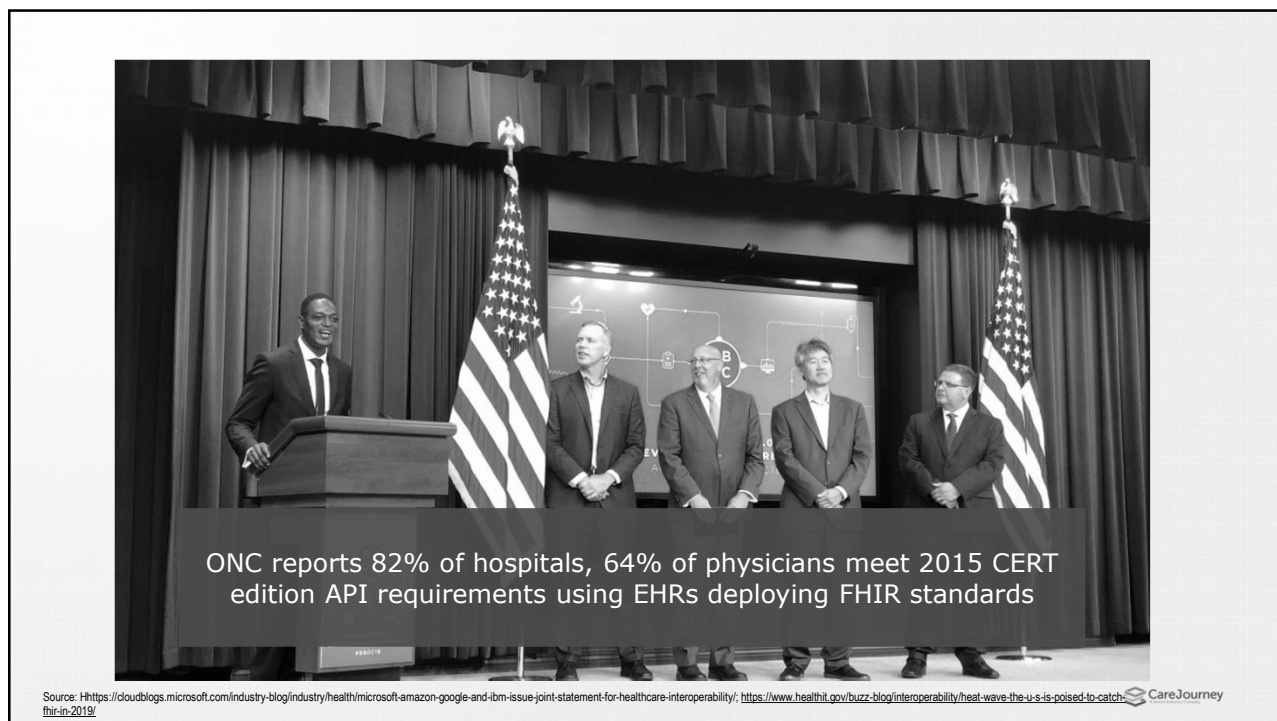
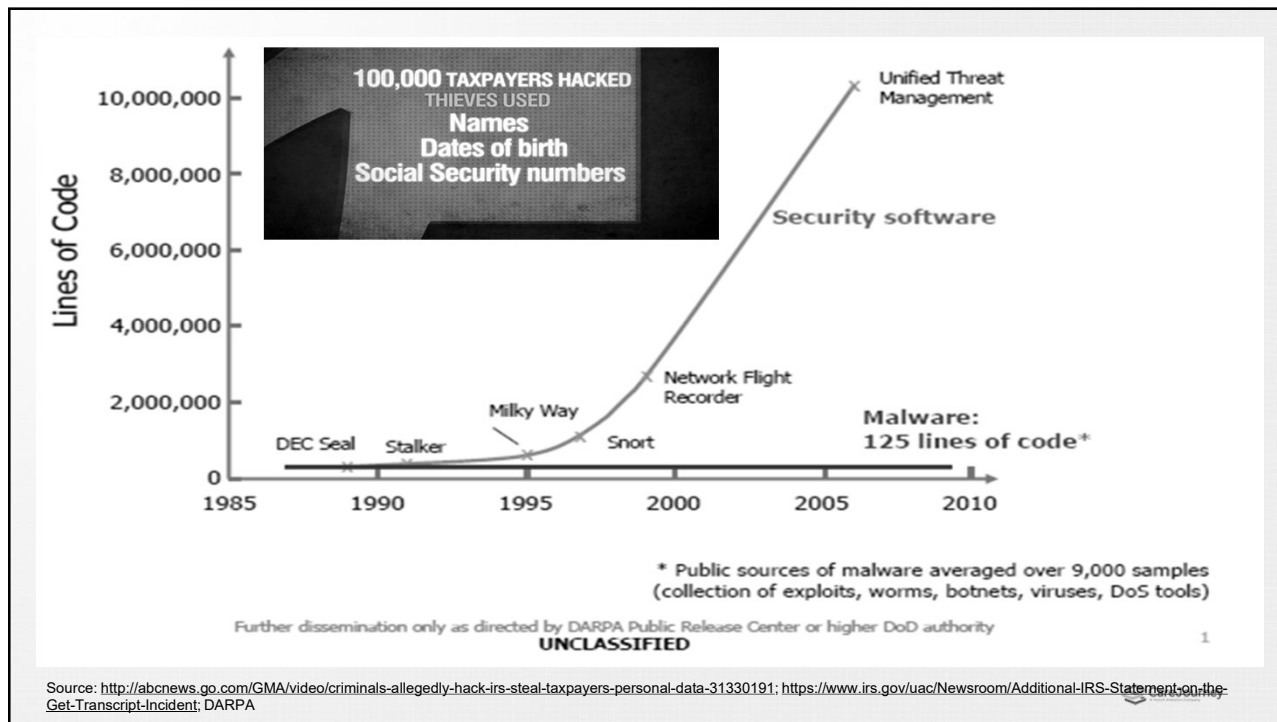


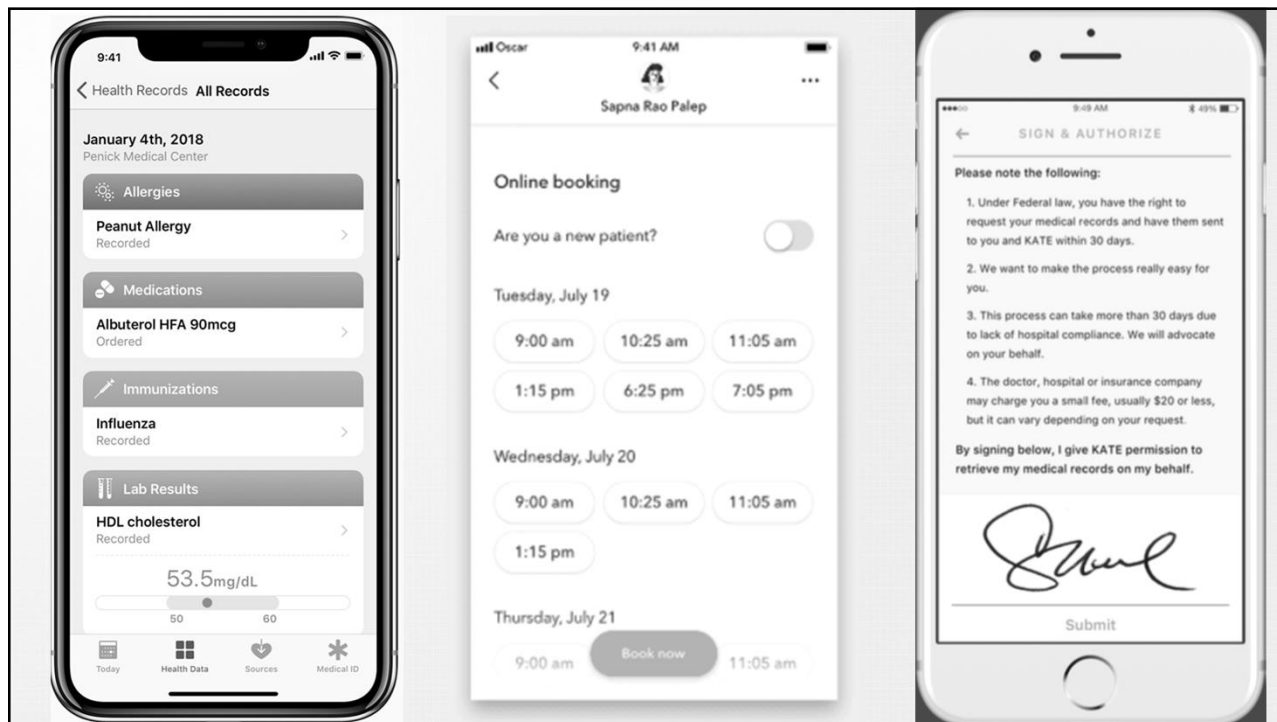
## Enablers for Digital Transformation




- 1 Invest in (digital) infrastructure
- 2 Encourage standards
- 3 Open up data
- 4 Enable “retail” and “wholesale” digital services
- 5 Reward outcomes

Source: whitehouse.gov/innovation





## “Plug and Play” Access to Clinical Data for Patient Cohorts



### FHIR Bulk Downloader

sample app

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**Resources to Download**

<input checked="" type="checkbox"/> AllergyIntolerance (30)	<input checked="" type="checkbox"/> CarePlan (239)	<input checked="" type="checkbox"/> Claim (1,706)	<input checked="" type="checkbox"/> Condition (431)	<input checked="" type="checkbox"/> DiagnosticReport (375)
<input checked="" type="checkbox"/> Encounter (1,369)	<input checked="" type="checkbox"/> Goal (200)	<input checked="" type="checkbox"/> Immunization (726)	<input checked="" type="checkbox"/> MedicationRequest (337)	<input checked="" type="checkbox"/> Observation (5,157)
<input checked="" type="checkbox"/> Organization (131)	<input checked="" type="checkbox"/> Patient (100)	<input checked="" type="checkbox"/> Procedure (732)		

**Patients Group**

- No Group (include all the patients)
- Blue Cross Blue Shield (27 patients)
- BMC HealthNet (10 patients)
- Fallon Health (3 patients)
- Harvard Pilgrim Health Care (3 patients)
- Health New England (25 patients)
- Minuteman Health (3 patients)
- Neighborhood Health Plan (7 patients)
- Tufts Health Plan (22 patients)

**Filter by Modification Date/Time**

You can filter the data and only include resources that have been modified after the specified date.

“ONC also supports the ongoing work to extend this open API technology to population-level data transfer...Central to a value-based health system is expanding the ability to find and move data for more than one patient at a time.”

ONC Director Don Rucker

Source: <https://github.com/smart-on-fhir/fhir-bulk-data-docs>; <https://www.healthaffairs.org/doi/10.1377/hblog20180618.138568/full/>

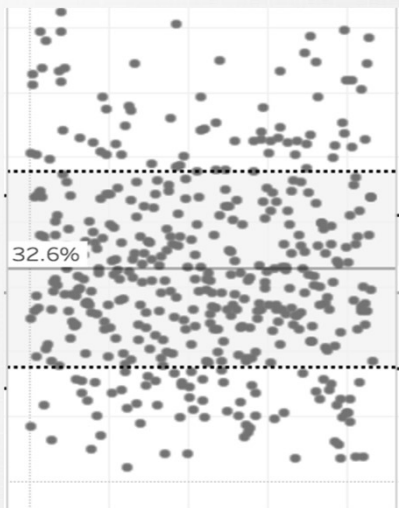
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## Open Health Care Data an Enabler for Delivery Reform Feedback Loops

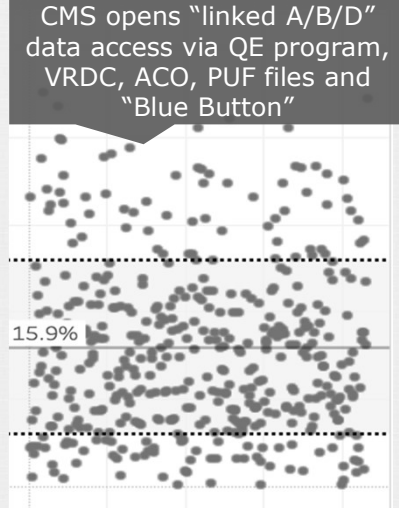


On July 4, 1776, the weather in Philly was clear and mild with a high of 76 degrees

Annual Wellness Visit Rate

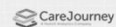


TCM (Transitional Care) Rate



CMS opens "linked A/B/D" data access via QE program, VRDC, ACO, PUF files and "Blue Button"

Source: [http://celebrating200years.noaa.gov/foundations/climate\\_data/image1.html](http://celebrating200years.noaa.gov/foundations/climate_data/image1.html); [whitehouse.gov](http://whitehouse.gov); CareJourney analysis of CMS "VRDC"

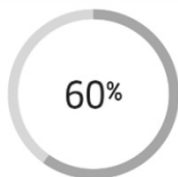
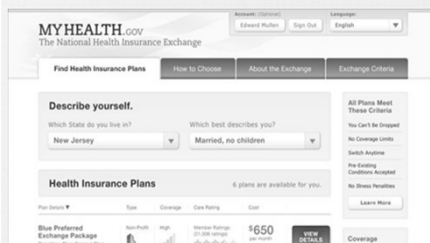


## The (Less Told) Healthcare.gov Story



@macon44 Hi. I made a design of what a Health Insurance Exchange could look like to help people understand its value.  
<http://ow.ly/195yS>

10:35 AM - 19 Feb 2010



Drivers are interested in tools to simplify the selection of health insurance



Source: [http://makinggood.edmullen.com/index.php/article/health\\_insurance\\_exchange](http://makinggood.edmullen.com/index.php/article/health_insurance_exchange); [www.healthcare.gov](http://www.healthcare.gov); <http://health.usnews.com/health-insurance>; <http://blog.uber.com/2010/02/19/healthcare>

## Scaling What Works via ACA Payment Reform (Innovation Center)

<b>Patient Centered Medical Homes</b>	• Organized outpatient care, coordination and team-based approaches
<b>Accountable Care Organizations</b>	• Shared savings; Redesigned care processes for high quality, efficient delivery
<b>Bundled Payments</b>	• Pilot program for episodes of care; incentivizes reduced costs around eight conditions
<b>Readmission Reduction Programs</b>	• Motivates hospitals to engage with care coordinators and better organize delivery systems

### Innovations Needed:

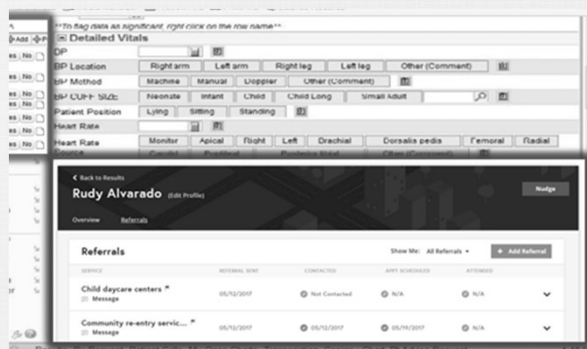
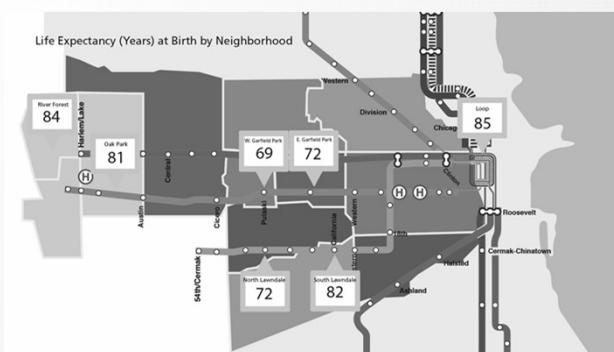
- Data Mining/Analytics
- Care Integration Tools
- Timely Clinical Data, Decision-Support
- Technology to Extend Physician Reach
- Consumer Engagement Tools/Platforms/Apps



"The evaluation...indicate that beneficiaries...have achieved success with losing weight and reducing the incidence of diabetes." - CMS Actuary

Source: White House Office of the CTO

## Apps to Enable Value-Based Care Models



16-year life expectancy gap; goal to cut 50% in ten years

Leadership selected 3rd party app, for "plug-play" workflow changes

CIO takes weeks, not months to enable apps integration

Immediate impact – 48/70 patients screened for needs; no return ER visits

Source: <https://www.rush.edu/health-wellness/video-library/total-health-collaborative>; Shafiq Rab, RUMC CIO

