

Iowa Health Information Network (IHIN)



A collaboration to
provide better information
for better care.

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Executive Director, Iowa e-Health**

Integrated Healthcare Models and Multi-Payer Delivery Systems Study Committee
November 20, 2013



Three main IHN Services

1. Directed Exchange

- From Provider to Provider for referral
- From Provider to Registry for reporting
- Between Provider & Patient for PHR

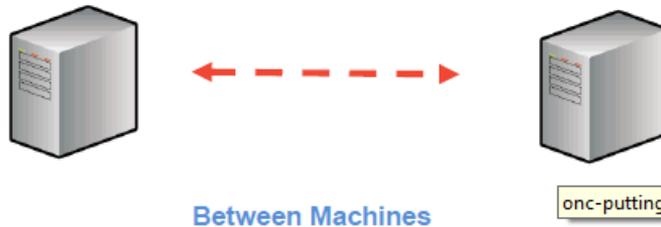
2. Query-based Exchange

- Snapshot of the patient's history
- Continuity of Care Document (CCD)
- Demographics, Allergies, Medications, Results, Immunization History, Family History, Procedures, etc.

3. State Reporting Exchange

1. Directed Exchange

Communication Pathways



Communication Content

I've attached the study of Mr. Author. Thanks for seeing him.



Readable by People

```
EVN|A28|20060501140008|||000338475^Author^Arthur^^^^ ^Regional  
MPI&2.16.840.1.113883.19.201&ISO^L|20060501140008<cr>  
PID|||000197245^^^NationalPN&2.16.840.1.113883.19.3&ISO^PN~4532^^
```

Readable by Machines

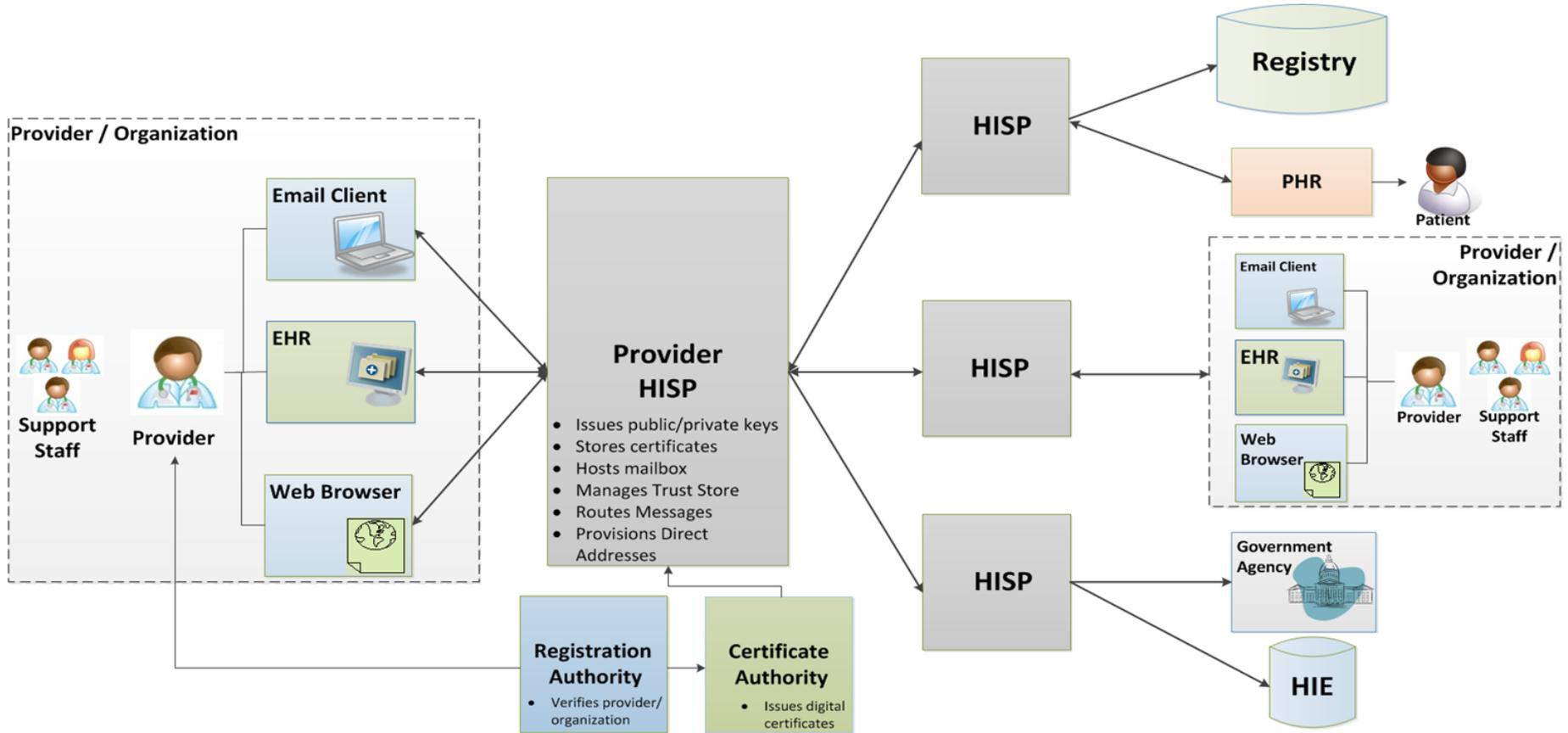
I've attached an x-ray and electronic record for Mr. Author.



```
EVN|A28|20060501140008|||000338  
475^Author^Arthur^^^^  
^RegionalMPI&2.16.840.1.113883.19.  
201&ISO^L|20060501140008<cr>
```

Readable by People and/or Machines

Directed Exchange – cont.



- **Provider vs. Provider Organization:** Certificates either associated to the hostname part of an address (organizational certificates) @direct.practice.com or to a specific user bob@direct.practice.com
- **Registration Authority:** Collects information for the purpose of verifying the identity of an individual or organization (i.e., identity proofing)

- **Certificate Authority:** Digitally signs certificate requests from the Registration Authority and issues digital certificate that ties a public key to the gathered attributes
- **Digital Certificates:** Electronic document that certifies that the subject (person or entity) has been issued a pair of encryption keys that are related in such a way that if one key is used to encrypt something (e.g., file, message, data stream), it can be decrypted only by someone holding the other key

2. Query Based Exchange

- Queries the IHN for all documents for a given patient
- Those documents are typically Clinical Document Architecture (CDA) summary documents
- Where patients have closer relationships with care teams, new HIE alerting functionality is being tested which notifies providers if triggers are met.

3. State Reporting

Automated support for receiving structured data to the following systems:

- Iowa Decease Surveillance System (IDSS)
- Immunization Registry Information System (IRIS)
- State Cancer Registry
- IME Health Home payment program

Two other important Exchange elements

- Patient access to their own information via Patient Portal and Personal Health Record (PHR)
 - Better ownership and understanding of their own health. Integrated with consumer apps and devices which collect data focused on wellness & prevention.
 - Numerous states are investing in establishing PHRs for specific populations or statewide. KY, KS, RI, etc.
- Increased data elements for many Quality Measures now established in the EHRs, shared through HIEs to data repositories such as a Data Warehouse.

**Member Access Center [Edit]****Edit Member Summary Layout**

Change what sections appear on this members summary screen.

**Member Review**

Go through a step by step medical review for Test.

**Access Privileges**

Manage access to your PHR information.

**Print Summary**

View and print a summary of this member.

**Share my PHR information with others**

Share your PHR information with your physicians and other providers.

**Print NMC911 Card**

View and print an NMC911.com card for this member.

**Import data from pickup code**

Click here to use a pickup code from a provider or other institution to import documents into your profile.

**Test's Registration Information [Edit]**

Test Patient
123 1st Street
Des Moines, IA 50309
Age: 63, Birthdate: 01-01-1950

CLICK
TO ADD
PHOTO

**cc:Me****Populate your PHR with cc:Me**

cc:Me makes it easy to get medical information from doctors and hospitals into your personal health record.

**Insurance [Edit]**

No insurance policies

**Current Medications [Edit]**

- None Entered

Previously taken medications:

- None entered.

**Current Illnesses [Edit] [Conditions R**

- None entered

Past Illnesses [Edit]

- None entered

**Surgeries/Procedures [Edit]**

- No Procedure History

**Immunizations [Edit]**

- None.

**Allergies [Edit]**

- No allergies entered

**Family Medical History [Edit]**

- No family history entered

**Social History [Edit]**

Marital Status: Married

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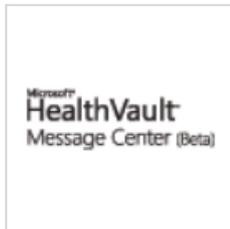
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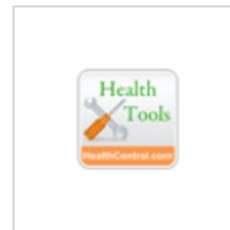
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Set **instructions** and **voice feedback** in your own language (English, Mandarin, Spanish, Portuguese, French, Dutch, German, Italian, Brazilian, Russian, Korean, Japanese and more scheduled).

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Get **reminded** to take your measurements.

Manage the health and fitness of **several persons** in one application.

Track



Choose popular **Bluetooth sensors** (FDA/CE approved) to collect your biometric measurements or enter **manually** measurements, targets and log information.

Track your **Exercises** using build-in GPS and Bluetooth sensors for vital signs monitoring.

Get **real-time** feedback after each measurement.

Keep **track** of your progress on easy to read graphs.

Share



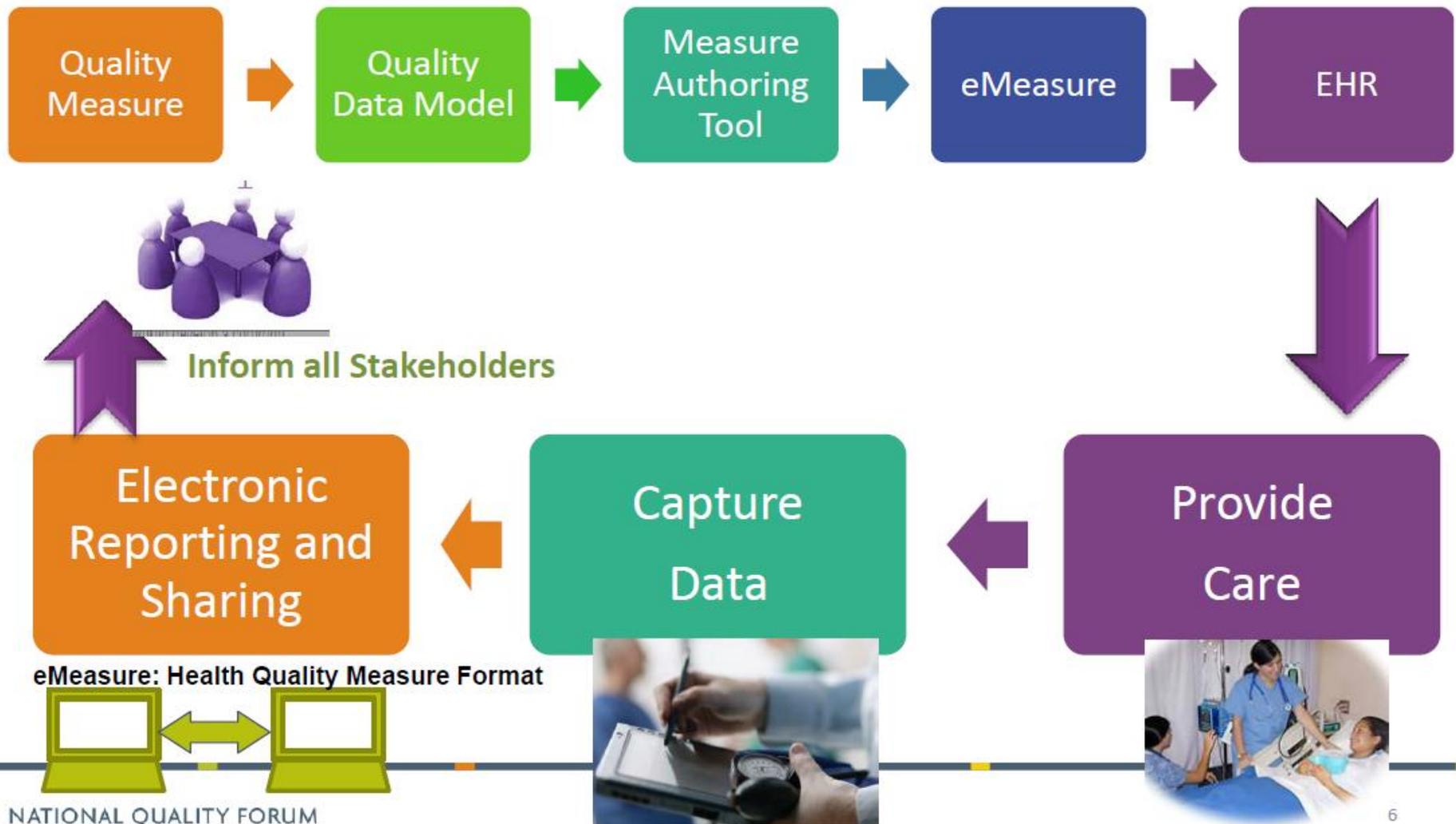
Manage the **health** and **fitness** of people you care for on your phone.

Upload your biometric measurements to **Microsoft® HealthVault®** for more detailed graphs and report creation.

Share the information collected with your health professional, friends or carer.



Quality Measures in the Clinical Realm



Thank You

Kim Norby

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