

An “App Store” for Health Care

NCIP
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**Intermountain
Healthcare**

*Healing for life*SM

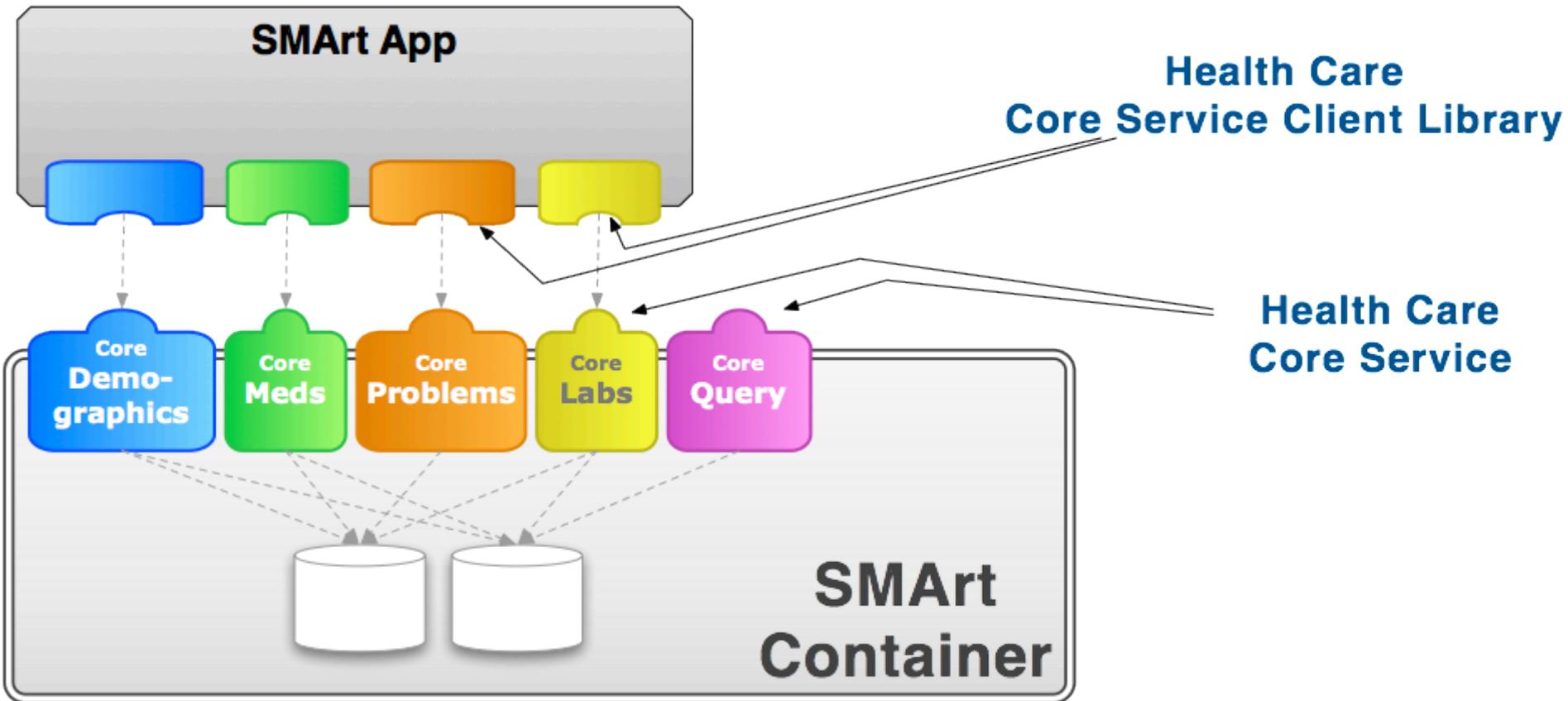
patientslikeme

- Institute of Medicine meeting
 - James Heywood
 - Brother Stephen with ALS
- **Step 1:** Create/update and share your health profile
- **Step 2:** Find support from others like you and compare experiences
- **Step 3:** Learn from aggregated community Treatment and Symptom Reports
- **Step 4:** Take profile to your doctor to have an improved treatment conversation
- **Step 5:** Play an integral part in your own health care

A Learning Health System (LHS)

“ ... one in which progress in science, informatics, and care culture align to generate new knowledge as an ongoing, natural by-product of the care experience, and seamlessly refine and deliver best practices for continuous improvement in health and health care.” (Institute of Medicine)

From Ben Adida and Josh Mandel

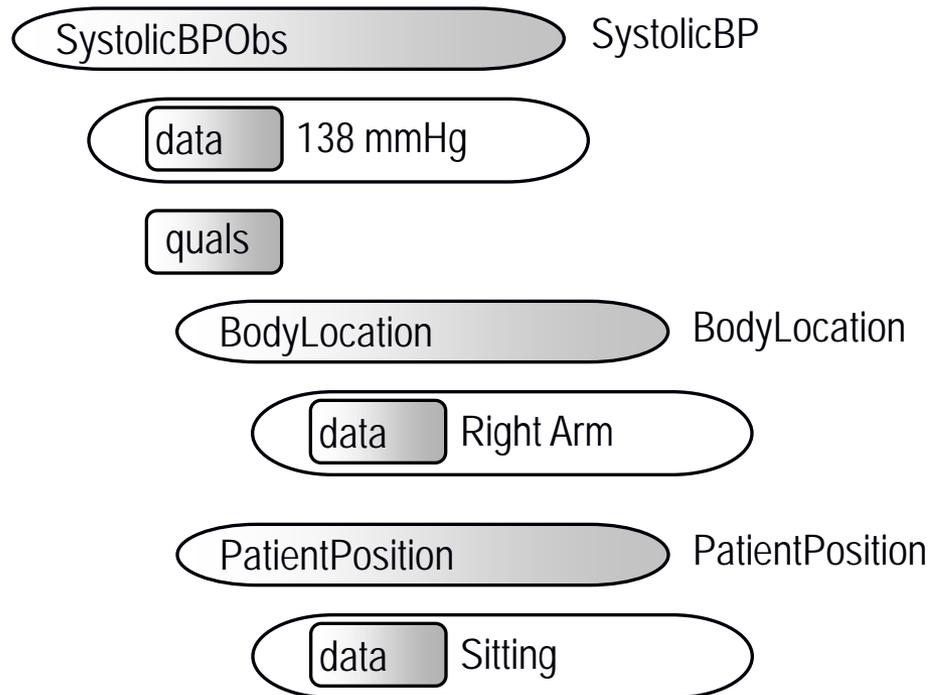


What Is Needed to Create a New Paradigm?

- Standard set of detailed clinical data models coupled with...
- Standard coded terminology
- Standard API's (Application Programmer Interfaces) for healthcare related services
- Open sharing of models, coded terms, and API's
- Sharing of decision support modules and knowledge

A diagram of a simple clinical model

Clinical Element Model for Systolic Blood Pressure



What if there is no model?

Site #1

Hct, manual:

Hct, auto :

Site #2

Hct :

Manual

Auto

Estimated

Relational database implications

Patient Identifier	Date and Time	Observation Type	Observation Value	Units
123456789	7/4/2005	Hct, manual	37	%
123456789	7/19/2005	Hct, auto	35	%

Patient Identifier	Date and Time	Observation Type	Method	Observation Value	Units
123456789	7/4/2005	Hct	manual	37	%
123456789	7/19/2005	Hct	auto	35	%

If the patient's hematocrit is ≤ 35 then

Clinical Information Modeling Initiative

- Shared repository of detailed clinical information models
- Using a single formalism
- Based on a common set of base data types
- With formal bindings of the models to standard coded terminologies
- Repository is open and models are free for use at no cost