Take home message:

multimedia recordings can be used for documenting clinical encounters, and capturing data for research.
Advisors:
Charles Friedman
Mark Leavitt
Glyn Elwyn
and others.
Built and tested in the real world.
macro throught piece: build a system that serves the goals of healing and science.
micro: if we think of the actions of clinicians and patients as a series of discrete steps in a workflow model, then the value of each step can be measured by how well it supports healing and science.
problem oriented: snomed (bio-psycho-social phenomena).
not restricted to snomed, and can handle non-western problems,
and also gives patients the capacity to name their concerns.
Patient and provider manage together.
goal, todos, media files are problem associated.
changes made by patient change the “authentication state” of the problem.
Encounter

patients (and their family members) can create and access encounters. events from the encounter are bookmarked for quick access. the media types are variable {audio, video, or kinect feed}
physical events are captured by sensors. metaphysical events are captured by our information management system.
when i'm finished seeing a patient i have 2 things: an encounter document, and an updated chart. wasting less energy charting and managing complexity.
legal reviewers: BCBS Michigan, Meridian, American Health Information Management Association, and others.
next steps:

- Improve and expand current build.
- Integrating discrete problem-oriented reportable data (PCMH, PQRS).
- SMART FHIR integration.
- Publish papers.

why I presented this today: it’s an open source project, and we want collaborators.
**person oriented:** images and free text, this allows us to start exploring personhood in a non-structured way. Patient and provider can edit.
other bits

interact

Pain History
Problem relationships

- Herpes zoster (disorder)
- Asthma (disorder)
- Decreased chi
- Blood magnesium abnormal (finding)
- Child relationship problem (finding)
- Urinary incontinence (finding)
- Raised thyroid stimulating hormone level (finding)
- Diabetes mellitus type 2 (disorder)
- Microalbuminuria (finding)
- Osteopenia (disorder)
- Gastroesophageal reflux disease (disorder)
- Palpitations (finding)
- Backache (finding)
- Acute stress disorder (disorder)
- Anxiety disorder (disorder)

Problem guidelines

- Normal blood pressure: systolic 120 mmHg and diastolic 80 mmHg. Prehypertension: systolic 120 to 139 mmHg or diastolic 80 to 89 mmHg. Stage 1 hypertension: systolic ≥140 mmHg and diastolic ≥90 mmHg. Stage 2 hypertension: systolic ≥160 mmHg and diastolic ≥100 mmHg.

- White coat hypertension is present if a patient has persistently elevated blood pressure when measured in the office, but repeatedly normal blood pressure when measured in a more controlled setting.

- Evaluation includes a history, physical examination, urinalysis, and measurement of the hematocrit, routine blood chemistry, serum creatinine, lipids, and albumin.

- The goal of antihypertensive therapy in patients with uncomplicated combined systolic and diastolic hypertension is a blood pressure of below 140/90.
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multimedia recordings can be used for clinical encounter documentation, and capturing data for research.
learn more:
http://digitaltransformationofhealth.blogspot.com/