

# Interoperability Lessons Learned and Next Steps

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7/18/2014

## START WITH A REVIEW

- ◆ *Anna Poker* – Reviewed outcomes of HRSA grant activities awarded to clinics in order to assist health centers to become involved in the healthcare changes.
- ◆ *Joyce Sensmeier* – provided the HIMSS definition of interoperability and reviewed the HITECH goals and the value proposition of interoperability.
  - ◆ ...the ability of health information systems to work together within and across organizational boundaries in order to advance the health status of patients and the effective delivery of healthcare.

## REVIEW

- ◆ *Susan Matney* – reviewed the process for ensuring that we have interoperability through knowledge models and standardized terminologies and provided an overview of the roles and processes of SNOMED CT and LOINC.
- ◆ *Angela Icaza, Patrick Shannon, and Stephanie Raps* reviewed the complexity of moving patient data from battlefield to home in the Tri Service sector and the VA. They offered up comparisons and contrast to the private sector and described the current infrastructure for moving forward.

## REVIEW

- ◆ *Kathleen Charters* – reviewed the complex process for developing eMeasures across 55 facilities and within large databases
- ◆ *Bonnie Westra* – introduced us to the amazing work of the Minnesota eHealth Initiative, that took place over a decade, that has result in a 2015 statewide mandate for interoperability and the inclusion of standardized nursing terminologies in systems.

## Who was left out?

- ◆ The consumer
- ◆ The e Patient

## COMMON CONCEPTS MAPPED



## POLICY

- ◆ Federal
    - ◆ Meaningful Use
    - ◆ CMS
  - ◆ State
    - ◆ Legislation
    - ◆ Regulation
    - ◆ HIE
- All legislation is local.

## INVOLVEMENT

- ◆ ANA – BIG DATA WORKGROUPS (UNIV OF MN)
- ◆ AMIA NI-WG
- ◆ HIMSS Nursing Informatics Workgroup
- ◆ ONC
- ◆ ANI
- ◆ Local Chapters of HIMSS

## STANDARDS

- ◆ SNOMED CT
  - ◆ <http://www.ihtsdo.org/snomed-ct/>
- ◆ HL7
  - ◆ <http://www.hl7.org/>
- ◆ LOINC
  - ◆ <http://loinc.org>
- ◆ STANDARDS AND INTEROPERABILITY FRAMEWORK (The S&I Framework creates a forum – enabled by integrated functions, processes, and tools – where healthcare stakeholders can focus on solving real-world interoperability challenges)
  - ◆ <http://www.siframework.org>

## INVOLVEMENT

- ◆ VOLUNTEER
- ◆ RECEIVE TRAINING
- ◆ TIE INTO EVIDENCE BASED PRACTICE
- ◆ SUPPORT FOR E MEASURES
- ◆ FOLLOW OR PARTICIPATE IN A BIG DATA (UNIV OF MN) WORKGROUP
- ◆ A NURSING SPECIALTY GROUP
- ◆ REGIONAL HEALTH INFORMATION EXCHANGE

## OPERATIONS

- ◆ WORKFLOWS
- ◆ HAND OFFS
- ◆ MEDICATION RECONCILIATION
- ◆ TRANSITIONS OF CARE
- ◆ CARE COORDINATION
- ◆ POPULATION HEALTH

## INVOLVEMENT

- ◆ INTRA-FACILITY
- ◆ ENTERPRISE WIDE
- ◆ POPULATION HEALTH WORK
- ◆ PATIENT CENTERED MEDICAL HOME
- ◆ HEALTH INFORMATION EXCHANGE

## COLLABORATION

- ◆ UNIT LEVEL
- ◆ FACILITY LEVEL
- ◆ ENTERPRISE LEVEL
- ◆ COMMUNITY LEVEL
- ◆ ACROSS ENTERPRISES

## INVOLVEMENT

- ◆ DEVELOPING REPOSITORY OF LESSONS LEARNED AND CASE STUDIES
  - ◆ TIGER VIRTUAL LEARNING ENVIRONMENT
  - ◆ HEALTHIT.GOV AND ONC
  - ◆ AMIA
  - ◆ HIMSS
  - ◆ ANI
  - ◆ SNOMED
  - ◆ S&I FRAMEWORK

## EDUCATION

- ◆ EXECUTIVE LEVEL
- ◆ HEALTHCARE PROVIDER LEVEL
- ◆ INFORMATICIAN
- ◆ QUALITY IMPROVEMENT
- ◆ ANALYTICS
- ◆ TERMINOLOGIST AS A SUB SPECIALTY

## INVOLVEMENT

- ◆ EDUCATIONAL OFFERINGS OF:
  - ◆ IHTSDO
  - ◆ LOINC
- ◆ TIGER VIRTUAL LEARNING ENVIRONMENT
- ◆ INFORMATICS DEGREE BASED PROGRAMS
- ◆ ENTRY AND MASTERS LEVEL HEALTHCARE PROVIDER EDUCATION
- ◆ GENERALIST AND ADVANCED INFORMATICS SPECIALIST
- ◆ THE BIG DATA WORKGROUPS