Hoosier Healthcare Innovation Challenge:
CCD Merging

July 12th, 2013

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Indiana Health Information Exchange

Our Challenge Partners

- State Health Information Exchange entity
- Represents stakeholders in HIE activities
- Works with Indiana sub-state HIO's

- Founded in 2004
- Nation's largest inter-organizational clinical data repository
- Providing services to 94 hospitals (37 health systems), 25,000 clinicians and 5 payors

Background for the Challenge

- Continuity of Care Document (CCD)

- Meaningful Use Standard

- Applicable to vendors,providers, and patients

```xml
<FamilyHistory>
  <FamilyProblemHistory>
    <CCRDataObjectID>BB0001</CCRDataObjectID>
    <DateTime>
      <Type><Text>Onset</Text></Type>
      <Age>
        <Value>57</Value>
        <Units><Unit>Years</Unit></Units>
      </Age>
    </DateTime>
    <Source><Actor><ActorID>AA0002</ActorID></Actor></Source>
      <!-- Note: AA0002 is a code referencing the physician who entered the data -->
    <FamilyMember>
      <ActorID>AA0005</ActorID>
      <ActorRole><Text>Father</Text></ActorRole>
      <HealthStatus>
        <Description><Text>Deceased</Text></Description>
        <CauseOfDeath>Yes</CauseOfDeath>
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      </HealthStatus>
      <Source><Actor><ActorID>AA0002</ActorID></Actor></Source>
    </FamilyMember>
    <Problem>
      <Type><Text>Diagnosis</Text></Type>
      <Description>
        <Text>Myocardial infarction</Text>
        <Code>
          <Value>22298006</Value>
          <CodingSystem>SNOMED CT</CodingSystem>
          <Version>2005</Version>
        </Code>
      </Description>
      <Source><Actor><ActorID>AA0002</ActorID></Actor></Source>
    </Problem>
  </FamilyProblemHistory>
</FamilyHistory>
```

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Our Challenge

- Primary Use Case
  - HIE (Automated)
- Future Uses
  - Providers & Patients (Secondary, Manual)
- Needs
  - Merge multiple CCD's together
  - Remove duplicate data and/or highlight potential issues
  - Audit trail
  - Timely Performance

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Key Considerations

- Initial solution source code must be available to others (i.e.. open source)

- Solution must produce a single consolidated CCD

- Any editing of the incoming data stream must be auditable

- Test data to be provided: http://healthinformatics.us/hhic/challenge2

Prizes and Pilots

- $10K in Cash prizes
- In-kind Services and possible Top Innovation Award
- Opportunity to pilot at Successful HIE
- Case Study to be Written for ONC
- Potential Opportunity to Showcase Nationally

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Next Steps

See us in the auditorium during the breakouts to help solve this challenge!