



*Connecting Connecticut Through Health Information Technology*

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# **DSS Pilot Site Technical Requirements: Coding Requirements**

Addendum to DSS Pilot Site Technical Requirements Version 1.5

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March 12, 2010

Information contained in this document is also included in the DSS Pilot Site Technical Requirements Version 1.5 document dated March 12, 2010.

As stated in the Technical Requirements document, in order for participants to interact with the XDS components of the HIE, they must be able to produce a Continuity of Care Document (CCD) as per IHE XDS.b specification. They must also have the capability of generating relevant meta-data for the CCD. They must be able to act as an XDS.b source (i.e. submit a CCD document) and implement IHE IT-Infrastructure transaction 41. Support for TLS mutual handshakes and the ability to generate and submit audit log data is also required.

The CCD is part of the Clinical Document Architecture (CDA) as described at HL7.org. CDA is an HL7 standard that provides an exchange model for clinical documents (such as discharge summaries and progress notes) and brings the healthcare industry closer to the realization of an electronic medical record. By leveraging the use of XML, the HL7 RIM and coded vocabularies, the CDA makes documents both machine-readable, so they are easily parsed and processed electronically, and human-readable so they can be easily retrieved and used by the people who need them. CDA is capable of driving decision support and other sophisticated applications, while retaining the simple rendering of legally authenticated narrative.

An example 'Discharge Summary' CCD document follows:

```
<?xml version='1.0' encoding='UTF-8'?>
<?xml-stylesheet type='text/xsl' href='default.xsl'?>
<ClinicalDocument xsi:schemaLocation="urn:hl7-org:v3 CDA.xsd" xmlns="urn:hl7-org:v3" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <realmCode code="US"/>
  <typeId extension="POCD_HD000040" root="2.16.840.1.113883.1.3"/>
  <templateId extension="IMPL_CDAR2_LEVEL1" root="2.16.840.1.113883.10"/>
  <templateId extension="IMPL_CDAR2_LEVEL2" root="2.16.840.1.113883.10"/>
  <templateId root="1.3.6.1.4.1.19376.1.5.3.1.1.1"/>
  <templateId root="2.16.840.1.113883.10.20.3"/>
  <templateId root="2.16.840.1.113883.10.20.1"/>
  <templateId root="1.3.6.1.4.1.19376.1.5.3.1.1.2"/>
  <templateId root="1.3.6.1.4.1.19376.1.5.3.1.1.4"/>
  <id root="2.16.840.1.113883.3.28.1.1251315459167.1"/>
  <code code="34133-9" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="SUMMARIZATION OF EPISODE NOTE"/>
  <title>Hartford Hospital - Patient Discharge Summary</title>
  <effectiveTime value="20090811153739-0400"/>
  <confidentialityCode code="1.3.6.1.4.1.21367.2006.7.109" codeSystem="2.16.840.1.113883.5.25" codeSystemName="Confidentiality" displayName="restricted"/>
  <languageCode code="en-US"/>
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    <addr>
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      <city>Hartford</city>
      <state>CT</state>
      <postalCode>06102</postalCode>
      <country>USA</country>
    </addr>
    <telecom use="WP" value="Phone: 860-545-5010"/>
    <patient>
      <name>
        <given>Gene</given>
        <family>Atkinson</family>
        <prefix/>
        <suffix/>
      </name>
      <administrativeGenderCode code="M" codeSystem="2.16.840.1.113883.5.1" codeSystemName="AdministrativeGender"
      displayName="Male"/>
      <birthTime value="19450103"/>
      <maritalStatusCode code="U" codeSystem="2.16.840.1.113883.5.2" codeSystemName="MaritalStatus" displayName="Unknown"/>
      <guardian classCode="GUARD">
        <templateId root="1.3.6.1.4.1.19376.1.5.3.1.2.4"/>
        <code nullFlavor="UNK"/>
        <addr>
          <streetAddressLine>700 Euclid Ave</streetAddressLine>
          <city>St. Louis</city>
          <state>MO</state>
          <postalCode>63110</postalCode>
          <country>USA</country>
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      </guardian>
    </patient>
    <providerOrganization>
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```

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<name>
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<family>King</family>
<prefix/>
<suffix/>
</name>
</assignedPerson>
<representedOrganization>
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<telecom use="WP" value="Phone: 860-545-5010"/>
<addr>
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<state>MO</state>
<postalCode>63110</postalCode>
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</assignedAuthoringDevice>
</assignedAuthor>
</author>
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<state>MO</state>
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</custodian>
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  <assignedEntity>
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      <city>St. Louis</city>
      <state>MO</state>
      <postalCode>63110</postalCode>
      <country>USA</country>
    </addr>
    <telecom use="WP" value="Phone: 860-545-5010"/>
    <assignedPerson>
      <name>
        <given>Paul</given>
        <given/>
        <family>Primary</family>
        <prefix/>
        <suffix/>
      </name>
    </assignedPerson>
  </assignedEntity>
</legalAuthenticator>
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    <code nullFlavor="UNK"/>
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      <city>Hartford</city>
      <state>CT</state>
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    <postalCode>06102</postalCode>
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  <telecom use="WP" value="Phone: 860-545-5010"/>
  <associatedPerson>
    <name>
      <given>Richard</given>
      <given/>
      <family>Cole</family>
      <prefix/>
      <suffix/>
    </name>
  </associatedPerson>
</associatedEntity>
</participant>
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  <serviceEvent classCode="PCPR">
    <id root="2.16.840.1.113883.3.28.1.1251315461708.11"/>
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      <low value="20040807153737-0400"/>
      <high value="20040807153737-0400"/>
    </effectiveTime>
    <performer typeCode="PRF">
      <templateId root="1.3.6.1.4.1.19376.1.5.3.1.2.3"/>
      <functionCode code="PCP" codeSystem="2.16.840.1.113883.5.88" codeSystemName="ParticipatingFunction" displayName="primary
care physician"/>
      <time>
        <low value="20090202153737-0500"/>
      </time>
      <assignedEntity>
        <id extension="1251315461755.4" root="2.16.840.1.113883.3.28.1"/>
        <code code="59058001" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="General
Physician"/>
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          <streetAddressLine>80 Seymour St.</streetAddressLine>
          <city>Hartford</city>
          <state>CT</state>
          <postalCode>06102</postalCode>
        </addr>
      </assignedEntity>
    </performer>
  </serviceEvent>
</documentationOf>

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        <country>USA</country>
    </addr>
    <telecom use="WP" value="Phone: 860-545-5010"/>
    <assignedPerson>
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            <given/>
            <family>Cole</family>
            <prefix>Dr</prefix>
            <suffix/>
        </name>
    </assignedPerson>
</assignedEntity>
</performer>
</serviceEvent>
</documentationOf>
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    <structuredBody>
        <templateId extension="IMPL_CDAR2_LEVEL1-2REF_US_I2_2005SEP" root="2.16.840.1.113883.10"/>
        <component>
            <section>
                <templateId root="2.16.840.1.113883.10.20.1.11"/>
                <templateId root="1.3.6.1.4.1.19376.1.5.3.1.3.6"/>
                <id extension="1251315461864.13" root="2.16.840.1.113883.3.28.1"/>
                <code code="11450-4" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Problem List"/>
                <title>Problems</title>
                <text>None</text>
            </section>
        </component>
        <component>
            <section>
                <templateId root="1.3.6.1.4.1.19376.1.5.3.1.3.8"/>
                <id extension="1251315461895.13" root="2.16.840.1.113883.3.28.1"/>
                <code code="11348-0" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="History Of Past Illness"/>
                <title>Resolved Problem</title>
            </section>
        </component>
    </structuredBody>
</component>

```



```

<text>
<table border="1">
  <thead>
    <tr>
      <th>Problem</th>
      <th>Date</th>
      <th>Status</th>
      <th>Comment</th>
    </tr>
  </thead>
  <tbody>
    <tr ID="resolvedProblem-0">
      <td ID="resolvedProblem-Problem-0">Diabetes Mellitus</td>
      <td ID="resolvedProblem-Date-0">02/02/2009</td>
      <td ID="resolvedProblem-Status-0">completed</td>
      <td ID="resolvedProblem-Comment-0"></td>
    </tr>
    <tr ID="resolvedProblem-1">
      <td ID="resolvedProblem-Problem-1">HTN</td>
      <td ID="resolvedProblem-Date-1">02/02/2009</td>
      <td ID="resolvedProblem-Status-1">completed</td>
      <td ID="resolvedProblem-Comment-1"></td>
    </tr>
  </tbody>
</table>
</text>
<entry>
  <act classCode="ACT" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.1.27"/>
    <templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.5.1"/>
    <templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.5.2"/>
    <id extension="1251315462191.10" root="2.16.840.1.113883.3.28.1"/>
    <code nullFlavor="NA"/>
    <statusCode code="completed"/>
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</effectiveTime>
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    <templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.5"/>
    <id extension="1251315462378.7" root="2.16.840.1.113883.3.28.1"/>
    <code code="55607006" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Problem"/>
    <text>
      <reference value="#resolvedProblem-0"/>
    </text>
    <statusCode code="completed"/>
    <effectiveTime>
      <low value="20090202153737-0500"/>
    </effectiveTime>
    <value xsi:type="CD" code="250.0" codeSystem="2.16.840.1.113883.6.2" codeSystemName="ICD9">
      <originalText>
        <reference value="#resolvedProblem-Problem-0"/>
      </originalText>
    </value>
  <entryRelationship typeCode="REFR" inversionInd="false">
    <observation classCode="OBS" moodCode="EVN">
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      <templateId root="2.16.840.1.113883.10.20.1.50"/>
      <templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.1.1"/>
      <code code="33999-4" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Status"/>
      <text>
        <reference value="#resolvedProblem-Status-0"/>
      </text>
      <statusCode code="completed"/>
      <value xsi:type="CE" code="413322009" displayName="completed" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED CT"/>
    </observation>
  </entryRelationship>
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  <act classCode="ACT" moodCode="EVN">
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Comment"/>

<text>

<reference value="#resolvedProblem-Comment-0"/>

</text>

<statusCode code="completed"/>

</act>

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</observation>

</entryRelationship>

</act>

</entry>

<entry>

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<code nullFlavor="NA"/>

<statusCode code="completed"/>

<effectiveTime>

<low value="20090202153737-0500"/>

<high nullFlavor="UNK"/>

</effectiveTime>

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<observation classCode="OBS" moodCode="EVN">

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<templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.5"/>

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<code code="55607006" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Problem"/>

<text>

<reference value="#resolvedProblem-1"/>

</text>

<statusCode code="completed"/>

<effectiveTime>

<low value="20090202153737-0500"/>

</effectiveTime>

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<value xsi:type="CD" code="220.0" codeSystem="2.16.840.1.113883.6.2" codeSystemName="ICD9">
  <originalText>
    <reference value="#resolvedProblem-Problem-1"/>
  </originalText>
</value>
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  <observation classCode="OBS" moodCode="EVN">
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    <templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.1.1"/>
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    <text>
      <reference value="#resolvedProblem-Status-1"/>
    </text>
    <statusCode code="completed"/>
    <value xsi:type="CE" code="413322009" displayName="completed" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED CT"/>
  </observation>
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  <act classCode="ACT" moodCode="EVN">
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    <code code="48767-8" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Annotation
Comment"/>
    <text>
      <reference value="#resolvedProblem-Comment-1"/>
    </text>
    <statusCode code="completed"/>
  </act>
</entryRelationship>
</observation>
</entryRelationship>
</act>
</entry>
</section>
</component>

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<component>
<section>
  <templateId root="1.3.6.1.4.1.19376.1.5.3.1.3.7"/>
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  <title>Hospital Discharge DX</title>
  <text>
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        <tr>
          <th>Problem</th>
          <th>Date</th>
          <th>Status</th>
          <th>Comment</th>
        </tr>
      </thead>
      <tbody>
        <tr ID="DischargeDX-0">
          <td ID="DischargeDX-Problem-0">Acute Myocardial Infarction s/p CABG</td>
          <td ID="DischargeDX-Date-0">08/11/2009</td>
          <td ID="DischargeDX-Status-0">completed</td>
          <td ID="DischargeDX-Comment-0"></td>
        </tr>
        <tr ID="DischargeDX-1">
          <td ID="DischargeDX-Problem-1">Cardiovascular collapse</td>
          <td ID="DischargeDX-Date-1">08/11/2009</td>
          <td ID="DischargeDX-Status-1">completed</td>
          <td ID="DischargeDX-Comment-1"></td>
        </tr>
        <tr ID="DischargeDX-2">
          <td ID="DischargeDX-Problem-2">Hypertension, NOS</td>
          <td ID="DischargeDX-Date-2">08/11/2009</td>
          <td ID="DischargeDX-Status-2">completed</td>
          <td ID="DischargeDX-Comment-2"></td>
        </tr>
        <tr ID="DischargeDX-3">
          <td ID="DischargeDX-Problem-3">Dibetes Mellitus, type II</td>
          <td ID="DischargeDX-Date-3">08/11/2009</td>

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        <td ID="DischargeDX-Status-3">completed</td>
        <td ID="DischargeDX-Comment-3"></td>
    </tr>
</tbody>
</table>
</text>
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        </effectiveTime>
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            <id extension="1251315462456.7" root="2.16.840.1.113883.3.28.1"/>
            <code code="55607006" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Problem"/>
            <text>
                <reference value="#DischargeDX-0"/>
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            <statusCode code="completed"/>
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                <low value="20090811153737-0400"/>
            </effectiveTime>
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      <reference value="#DischargeDX-Status-0"/>
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codeSystemName="SNOMED CT"/>
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    <code code="48767-8" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Annotation
Comment"/>
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</act>
</entry>
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    <id extension="1251315462456.10" root="2.16.840.1.113883.3.28.1"/>
    <code nullFlavor="NA"/>
    <statusCode code="completed"/>
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  <high nullFlavor="UNK"/>
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    <code code="55607006" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Problem"/>
    <text>
      <reference value="#DischargeDX-1"/>
    </text>
    <statusCode code="completed"/>
    <effectiveTime>
      <low value="20090811153737-0400"/>
    </effectiveTime>
    <value xsi:type="CD" code="785.50" codeSystem="2.16.840.1.113883.6.2" codeSystemName="ICD9">
      <originalText>
        <reference value="#DischargeDX-Problem-1"/>
      </originalText>
    </value>
  </entryRelationship typeCode="REFR" inversionInd="false">
    <observation classCode="OBS" moodCode="EVN">
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      <templateId root="2.16.840.1.113883.10.20.1.50"/>
      <templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.1.1"/>
      <code code="33999-4" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Status"/>
      <text>
        <reference value="#DischargeDX-Status-1"/>
      </text>
      <statusCode code="completed"/>
      <value xsi:type="CE" code="413322009" displayName="completed" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED CT"/>
    </observation>
  </entryRelationship>
</entryRelationship typeCode="SUBJ" inversionInd="true">

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    <act classCode="ACT" moodCode="EVN">
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      <templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.2"/>
      <code code="48767-8" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Annotation
Comment"/>
      <text>
        <reference value="#DischargeDX-Comment-1"/>
      </text>
      <statusCode code="completed"/>
    </act>
  </entryRelationship>
</observation>
</entryRelationship>
</act>
</entry>
<entry>
  <act classCode="ACT" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.1.27"/>
    <templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.5.1"/>
    <templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.5.2"/>
    <id extension="1251315462487.10" root="2.16.840.1.113883.3.28.1"/>
    <code nullFlavor="NA"/>
    <statusCode code="completed"/>
    <effectiveTime>
      <low value="20090811153737-0400"/>
      <high nullFlavor="UNK"/>
    </effectiveTime>
    <entryRelationship typeCode="SUBJ" inversionInd="false">
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.1.28"/>
        <templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.5"/>
        <id extension="1251315462503.7" root="2.16.840.1.113883.3.28.1"/>
        <code code="55607006" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Problem"/>
        <text>
          <reference value="#DischargeDX-2"/>
        </text>
        <statusCode code="completed"/>
      </observation>
    </entryRelationship>
  </act>
</entry>

```

```

<effectiveTime>
  <low value="20090811153737-0400"/>
</effectiveTime>
<value xsi:type="CD" code="401.9" codeSystem="2.16.840.1.113883.6.2" codeSystemName="ICD9">
  <originalText>
    <reference value="#DischargeDX-Problem-2"/>
  </originalText>
</value>
<entryRelationship typeCode="REFR" inversionInd="false">
  <observation classCode="OBS" moodCode="EVN">
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    <templateId root="2.16.840.1.113883.10.20.1.50"/>
    <templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.1.1"/>
    <code code="33999-4" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Status"/>
    <text>
      <reference value="#DischargeDX-Status-2"/>
    </text>
    <statusCode code="completed"/>
    <value xsi:type="CE" code="413322009" displayName="completed" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED CT"/>
  </observation>
</entryRelationship>
<entryRelationship typeCode="SUBJ" inversionInd="true">
  <act classCode="ACT" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.1.40"/>
    <templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.2"/>
    <code code="48767-8" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Annotation
Comment"/>
    <text>
      <reference value="#DischargeDX-Comment-2"/>
    </text>
    <statusCode code="completed"/>
  </act>
</entryRelationship>
</observation>
</entryRelationship>
</act>

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</entry>

<entry>

<act classCode="ACT" moodCode="EVN">

<templateId root="2.16.840.1.113883.10.20.1.27"/>

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<templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.5.2"/>

<id extension="1251315462503.10" root="2.16.840.1.113883.3.28.1"/>

<code nullFlavor="NA"/>

<statusCode code="completed"/>

<effectiveTime>

<low value="20090811153737-0400"/>

<high nullFlavor="UNK"/>

</effectiveTime>

<entryRelationship typeCode="SUBJ" inversionInd="false">

<observation classCode="OBS" moodCode="EVN">

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<templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.5"/>

<id extension="1251315462518.7" root="2.16.840.1.113883.3.28.1"/>

<code code="55607006" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Problem"/>

<text>

<reference value="#DischargeDX-3"/>

</text>

<statusCode code="completed"/>

<effectiveTime>

<low value="20090811153737-0400"/>

</effectiveTime>

<value xsi:type="CD" code="250.0" codeSystem="2.16.840.1.113883.6.2" codeSystemName="ICD9">

<originalText>

<reference value="#DischargeDX-Problem-3"/>

</originalText>

</value>

<entryRelationship typeCode="REFR" inversionInd="false">

<observation classCode="OBS" moodCode="EVN">

<templateId root="2.16.840.1.113883.10.20.1.57"/>

<templateId root="2.16.840.1.113883.10.20.1.50"/>

<templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.1.1"/>

<code code="33999-4" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Status"/>

```

    <text>
      <reference value="#DischargeDX-Status-3"/>
    </text>
    <statusCode code="completed"/>
    <value xsi:type="CE" code="413322009" displayName="completed" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED CT"/>
  </observation>
</entryRelationship>
<entryRelationship typeCode="SUBJ" inversionInd="true">
  <act classCode="ACT" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.1.40"/>
    <templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.2"/>
    <code code="48767-8" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Annotation
Comment"/>
    <text>
      <reference value="#DischargeDX-Comment-3"/>
    </text>
    <statusCode code="completed"/>
  </act>
</entryRelationship>
</observation>
</entryRelationship>
</act>
</entry>
</section>
</component>
<component>
  <section>
    <templateId root="1.3.6.1.4.1.19376.1.5.3.1.3.3"/>
    <code code="46241-6" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Hospital Admission DX"/>
    <title>Hospital Admission DX</title>
    <text>None</text>
  </section>
</component>
<component>
  <section>
    <templateId root="1.3.6.1.4.1.19376.1.5.3.1.3.22"/>

```

<code code="10183-2" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Hospital Discharge Medications"/>

<title>Hospital Discharge Medications</title>

<text>

<table border="1">

<thead>

<tr>

<th>Medication</th>

<th>Sig</th>

<th>OrderDate</th>

<th>Duration</th>

</tr>

</thead>

<tbody>

<tr ID="dischargeMedicationOrder-0">

<td ID="dischargeMedication-Medication-0">ECASA 325 mg</td>

<td ID="dischargeMedication-Sig-0">po daily</td>

<td ID="dischargeMedication-OrderDate-0">08/09/2009</td>

<td ID="dischargeMedication-Duration-0"></td>

</tr>

<tr ID="dischargeMedicationOrder-1">

<td ID="dischargeMedication-Medication-1">Zocor 40mg</td>

<td ID="dischargeMedication-Sig-1">po daily</td>

<td ID="dischargeMedication-OrderDate-1">08/09/2009</td>

<td ID="dischargeMedication-Duration-1"></td>

</tr>

<tr ID="dischargeMedicationOrder-2">

<td ID="dischargeMedication-Medication-2">Atenolol 50 mg tab</td>

<td ID="dischargeMedication-Sig-2">1 tab po daily</td>

<td ID="dischargeMedication-OrderDate-2">08/09/2009</td>

<td ID="dischargeMedication-Duration-2"></td>

</tr>

<tr ID="dischargeMedicationOrder-3">

<td ID="dischargeMedication-Medication-3">Glucophage 850 mg tab</td>

<td ID="dischargeMedication-Sig-3">1 tab po bid</td>

<td ID="dischargeMedication-OrderDate-3">08/09/2009</td>

<td ID="dischargeMedication-Duration-3"></td>

```

</tr>
<tr ID="dischargeMedicationOrder-4">
  <td ID="dischargeMedication-Medication-4">Zyrtec 10 mg</td>
  <td ID="dischargeMedication-Sig-4">po daily</td>
  <td ID="dischargeMedication-OrderDate-4">08/09/2009</td>
  <td ID="dischargeMedication-Duration-4"></td>
</tr>
</tbody>
</table>
</text>
<entry>
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    <templateId root="2.16.840.1.113883.10.20.1.24"/>
    <templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.7"/>
    <templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.7.1"/>
    <id extension="1251315462643.8" root="2.16.840.1.113883.3.28.1"/>
    <text>
      <reference value="#dischargeMedicationOrder-0"/>
    </text>
    <statusCode code="completed"/>
    <effectiveTime xsi:type="IVL_TS">
      <low value="20090809183637-0400"/>
      <high nullFlavor="UNK"/>
    </effectiveTime>
    <routeCode code="14736" codeSystem="2.16.840.1.113883.5.112" codeSystemName="RouteOfAdministration"
displayName="IVP"/>
    <doseQuantity>
      <low value="30" unit="mg"/>
      <high value="30" unit="mg"/>
    </doseQuantity>
    <consumable typeCode="CSM">
      <manufacturedProduct classCode="MANU">
        <templateId root="2.16.840.1.113883.10.20.1.53"/>
        <templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.7.2"/>
        <manufacturedMaterial>
          <code nullFlavor="UNK">
            <originalText>

```

```

        <reference value="#dischargeMedication-Medication-0"/>
    </originalText>
</code>
    <name>ECASA 325 mg</name>
</manufacturedMaterial>
</manufacturedProduct>
</consumable>
</substanceAdministration>
</entry>
<entry>
    <substanceAdministration classCode="SBADM" moodCode="INT">
        <templateId root="2.16.840.1.113883.10.20.1.24"/>
        <templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.7"/>
        <templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.7.1"/>
        <id extension="1251315462845.8" root="2.16.840.1.113883.3.28.1"/>
        <text>
            <reference value="#dischargeMedicationOrder-1"/>
        </text>
        <statusCode code="completed"/>
        <effectiveTime xsi:type="IVL_TS">
            <low value="20090809183637-0400"/>
            <high nullFlavor="UNK"/>
        </effectiveTime>
        <routeCode code="14737" codeSystem="2.16.840.1.113883.5.112" codeSystemName="RouteOfAdministration"
displayName="SIVP"/>
        <doseQuantity>
            <low value="1" unit="mg"/>
            <high value="1" unit="mg"/>
        </doseQuantity>
        <consumable typeCode="CSM">
            <manufacturedProduct classCode="MANU">
                <templateId root="2.16.840.1.113883.10.20.1.53"/>
                <templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.7.2"/>
            </manufacturedProduct>
            <manufacturedMaterial>
                <code nullFlavor="UNK">
                    <originalText>
                        <reference value="#dischargeMedication-Medication-1"/>
                    </originalText>
                </code>
            </manufacturedMaterial>
        </consumable>
    </substanceAdministration>
</entry>

```

```

    </originalText>
  </code>
  <name>Zocor 40mg</name>
</manufacturedMaterial>
</manufacturedProduct>
</consumable>
</substanceAdministration>
</entry>
<entry>
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    <templateId root="2.16.840.1.113883.10.20.1.24"/>
    <templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.7"/>
    <templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.7.1"/>
    <id extension="1251315462861.8" root="2.16.840.1.113883.3.28.1"/>
    <text>
      <reference value="#dischargeMedicationOrder-2"/>
    </text>
    <statusCode code="completed"/>
    <effectiveTime xsi:type="IVL_TS">
      <low value="20090809183637-0400"/>
      <high nullFlavor="UNK"/>
    </effectiveTime>
    <routeCode code="14735" codeSystem="2.16.840.1.113883.5.112" codeSystemName="RouteOfAdministration"
displayName="Oral"/>
    <doseQuantity>
      <low value="1" unit="tablet"/>
      <high value="1" unit="tablet"/>
    </doseQuantity>
    <consumable typeCode="CSM">
      <manufacturedProduct classCode="MANU">
        <templateId root="2.16.840.1.113883.10.20.1.53"/>
        <templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.7.2"/>
      </manufacturedProduct>
      <manufacturedMaterial>
        <code code="277179" codeSystem="2.16.840.1.113883.6.88" codeSystemName="RxNorm">
          <originalText>
            <reference value="#dischargeMedication-Medication-2"/>
          </originalText>
        </code>
      </manufacturedMaterial>
    </consumable>
  </substanceAdministration>
</entry>

```



```

    </code>
    <name>Atenolol 50 mg tab</name>
  </manufacturedMaterial>
</manufacturedProduct>
</consumable>
</substanceAdministration>
</entry>
<entry>
  <substanceAdministration classCode="SBADM" moodCode="INT">
    <templateId root="2.16.840.1.113883.10.20.1.24"/>
    <templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.7"/>
    <templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.7.1"/>
    <id extension="1251315462877.8" root="2.16.840.1.113883.3.28.1"/>
    <text>
      <reference value="#dischargeMedicationOrder-3"/>
    </text>
    <statusCode code="completed"/>
    <effectiveTime xsi:type="IVL_TS">
      <low value="20090809183637-0400"/>
      <high nullFlavor="UNK"/>
    </effectiveTime>
    <routeCode code="14735" codeSystem="2.16.840.1.113883.5.112" codeSystemName="RouteOfAdministration"
displayName="Oral"/>
    <doseQuantity>
      <low value="1" unit="tablet"/>
      <high value="1" unit="tablet"/>
    </doseQuantity>
    <consumable typeCode="CSM">
      <manufacturedProduct classCode="MANU">
        <templateId root="2.16.840.1.113883.10.20.1.53"/>
        <templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.7.2"/>
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            <originalText>
              <reference value="#dischargeMedication-Medication-3"/>
            </originalText>
          </code>

```

```

    <name>Glucophage 850 mg tab</name>
  </manufacturedMaterial>
</manufacturedProduct>
</consumable>
</substanceAdministration>
</entry>
<entry>
  <substanceAdministration classCode="SBADM" moodCode="INT">
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    <templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.7"/>
    <templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.7.1"/>
    <id extension="1251315462877.8" root="2.16.840.1.113883.3.28.1"/>
    <text>
      <reference value="#dischargeMedicationOrder-4"/>
    </text>
    <statusCode code="completed"/>
    <effectiveTime xsi:type="IVL_TS">
      <low value="20090809183637-0400"/>
      <high nullFlavor="UNK"/>
    </effectiveTime>
    <routeCode code="14736" codeSystem="2.16.840.1.113883.5.112" codeSystemName="RouteOfAdministration"
displayName="IVP"/>
    <doseQuantity>
      <low value="10" unit="mg"/>
      <high value="10" unit="mg"/>
    </doseQuantity>
    <consumable typeCode="CSM">
      <manufacturedProduct classCode="MANU">
        <templateId root="2.16.840.1.113883.10.20.1.53"/>
        <templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.7.2"/>
        <manufacturedMaterial>
          <code nullFlavor="UNK">
            <originalText>
              <reference value="#dischargeMedication-Medication-4"/>
            </originalText>
          </code>
        </manufacturedMaterial>
      </manufacturedProduct>
    </consumable>
    <name>Zyrtec 10 mg</name>
  </substanceAdministration>
</entry>

```

```

    </manufacturedMaterial>
  </manufacturedProduct>
</consumable>
</substanceAdministration>
</entry>
</section>
</component>
<component>
<section>
  <templateId root="1.3.6.1.4.1.19376.1.5.3.1.3.20"/>
  <code code="42346-7" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Medications on Admission"/>
  <title>Medications on Admission</title>
  <text>
    <table border="1">
      <thead>
        <tr>
          <th>Medication</th>
          <th>Sig</th>
          <th>OrderDate</th>
          <th>Duration</th>
        </tr>
      </thead>
      <tbody>
        <tr ID="admissionMedicationOrder-0">
          <td ID="admissionMedication-Medication-0">Atenolol 50 mg tab</td>
          <td ID="admissionMedication-Sig-0">1 tab po daily</td>
          <td ID="admissionMedication-OrderDate-0">08/26/2009</td>
          <td ID="admissionMedication-Duration-0"></td>
        </tr>
        <tr ID="admissionMedicationOrder-1">
          <td ID="admissionMedication-Medication-1">Glucophage 850 mg tab</td>
          <td ID="admissionMedication-Sig-1">1 tab po bid</td>
          <td ID="admissionMedication-OrderDate-1">08/26/2009</td>
          <td ID="admissionMedication-Duration-1"></td>
        </tr>
      </tbody>
    </table>
  </text>

```

```

</table>
</text>
<entry>
  <substanceAdministration classCode="SBADM" moodCode="EVN">
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    <templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.7"/>
    <templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.7.1"/>
    <id extension="1251315462908.8" root="2.16.840.1.113883.3.28.1"/>
    <text>
      <reference value="#admissionMedicationOrder-0"/>
    </text>
    <statusCode code="completed"/>
    <effectiveTime xsi:type="IVL_TS">
      <low value="20090826153737-0400"/>
      <high nullFlavor="UNK"/>
    </effectiveTime>
    <routeCode code="14735" codeSystem="2.16.840.1.113883.5.112" codeSystemName="RouteOfAdministration"
displayName="Oral"/>
    <doseQuantity>
      <low value="1" unit="tablet"/>
      <high value="1" unit="tablet"/>
    </doseQuantity>
    <consumable typeCode="CSM">
      <manufacturedProduct classCode="MANU">
        <templateId root="2.16.840.1.113883.10.20.1.53"/>
        <templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.7.2"/>
        <manufacturedMaterial>
          <code code="277179" codeSystem="2.16.840.1.113883.6.88" codeSystemName="RxNorm">
            <originalText>
              <reference value="#admissionMedication-Medication-0"/>
            </originalText>
          </code>
          <name>Atenolol 50 mg tab</name>
        </manufacturedMaterial>
      </manufacturedProduct>
    </consumable>
  </substanceAdministration>

```

```

</entry>
<entry>
  <substanceAdministration classCode="SBADM" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.1.24"/>
    <templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.7"/>
    <templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.7.1"/>
    <id extension="1251315462908.8" root="2.16.840.1.113883.3.28.1"/>
    <text>
      <reference value="#admissionMedicationOrder-1"/>
    </text>
    <statusCode code="completed"/>
    <effectiveTime xsi:type="IVL_TS">
      <low value="20090826153737-0400"/>
      <high nullFlavor="UNK"/>
    </effectiveTime>
    <routeCode code="14735" codeSystem="2.16.840.1.113883.5.112" codeSystemName="RouteOfAdministration"
    displayName="Oral"/>
    <doseQuantity>
      <low value="1" unit="tablet"/>
      <high value="1" unit="tablet"/>
    </doseQuantity>
    <consumable typeCode="CSM">
      <manufacturedProduct classCode="MANU">
        <templateId root="2.16.840.1.113883.10.20.1.53"/>
        <templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.7.2"/>
        <manufacturedMaterial>
          <code code="6809" codeSystem="2.16.840.1.113883.6.88" codeSystemName="RxNorm">
            <originalText>
              <reference value="#admissionMedication-Medication-1"/>
            </originalText>
          </code>
          <name>Glucophage 850 mg tab</name>
        </manufacturedMaterial>
      </manufacturedProduct>
    </consumable>
  </substanceAdministration>
</entry>

```

```

</section>
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  <templateId root="1.3.6.1.4.1.19376.1.5.3.1.3.13"/>
  <id extension="1251315462923.13" root="2.16.840.1.113883.3.28.1"/>
  <code code="48765-2" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Allergies, Adverse
Reactions, Alerts"/>
  <title>Allergies and Adverse Reactions</title>
  <text>
    <table border="1">
      <thead>
        <tr>
          <th>Allergen</th>
          <th>Reaction</th>
          <th>Date</th>
        </tr>
      </thead>
      <tbody>
        <tr>
          <td ID="allergy-Allergen-0">Patient reports seasonal allergies</td>
          <td ID="allergy-Reaction-0">Seasonal</td>
          <td ID="allergy-Date-0">08/07/2009</td>
        </tr>
        <tr>
          <td ID="allergy-Allergen-1">Negative for hives</td>
          <td ID="allergy-Reaction-1">rash</td>
          <td ID="allergy-Date-1">08/07/2009</td>
        </tr>
      </tbody>
    </table>
  </text>
  <entry>
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</effectiveTime>
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    <templateId root="2.16.840.1.113883.10.20.1.18"/>
    <templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.5"/>
    <templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.6"/>
    <id extension="1251315462939.7" root="2.16.840.1.113883.3.28.1"/>
    <code code="ALG" codeSystem="2.16.840.1.113883.5.4" codeSystemName="ObservationIntoleranceType"
      displayName="Allergy"/>
    <statusCode code="completed"/>
    <effectiveTime>
      <low value="20090807153737-0400"/>
    </effectiveTime>
    <value xsi:type="CD"/>
    <participant typeCode="CSM">
      <participantRole classCode="MANU">
        <addr nullFlavor="UNK"/>
        <telecom nullFlavor="UNK"/>
        <playingEntity classCode="MMAT">
          <code nullFlavor="UNK">
            <originalText>
              <reference value="#allergy-Allergen-0"/>
            </originalText>
          </code>
        </playingEntity>
      </participantRole>
    </participant>
  </observation>
</entryRelationship>

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</act>
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displayName="Allergy"/>
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        </effectiveTime>
        <value xsi:type="CD"/>
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          <participantRole classCode="MANU">
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                  <reference value="#allergy-Allergen-1"/>
                </originalText>
              </code>
            </playingEntity>
          </participantRole>
        </participant>
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    </observation>
  </act>
</entry>

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    </playingEntity>
  </participantRole>
</participant>
</observation>
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</entry>
</section>
</component>
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    <code code="8648-8" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Hospital Course"/>
    <title>Hospital Course</title>

```

<text>This patient was stabilized and subsequently was taken to the cath lab where he was noted to have three vessel disease. He was taken to the OR where a bypass grafting was performed. Internal Mammary graft to the mid LAD, SVG to circumflex, and SVG to distal RCA were performed by Dr. Carl Vascula. Post operative Echocardiogram showed preserved LV function to be normal. Mr. Atkinson did well during the post operative period with the exception of his BP which was poorly controlled. His Atenolol was decreased because of his lowered B/P during admission. He was also started on Aspirin and a statin. He will be discharged to home and follow up with Dr. Hartley in 3 weeks.</text>

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  </section>
</component>
<component>
  <section>
    <templateId root="1.3.6.1.4.1.19376.1.5.3.1.3.4"/>
    <code code="10164-2" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="History of Present Illness"/>
    <title>History of Present Illness</title>

```

<text>

<list>

<item>Mr. Atkins is a 64 year old male referred from Dr. P. Primary, with 3-day history of intermittent substernal, dull chest tightness with exertional activity. During initial exam, patient developed acute episode of pain 6/10, decreased to 3/10 with 3 nitro's and ASA given.</item>

</list>

</text>

</section>

</component>

<component>

<section>

<templateId root="1.3.6.1.4.1.19376.1.5.3.1.3.18"/>

<id extension="1251315463188.13" root="2.16.840.1.113883.3.28.1"/>

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<code code="10187-3" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Review of Systems"/>
<title>Review of Systems</title>
<text>
<list>
<item>Constitutional: Positive for body aches, Negative for chills, fatigue, fever, poor PO intake.</item>
<item>Eyes: Negative for acute changes.</item>
<item>ENT: Negative for nasal discharge, rhinorrhea, sore throat.</item>
<item>Cardiovascular: Positive for chest pain with movement, Negative for edema, palpitations, PND.</item>
<item>Respiratory: Negative for cough, Negative for dyspnea on exertion, hemoptysis, orthopnea.</item>
<item>Abdomen/GI: Negative for abdominal pain, nausea, vomiting, diarrhea.</item>
<item>MS/extremity: Negative for acute changes.</item>
<item>Skin: Negative for rash, swelling.</item>
<item>Neuro: Negative for dizziness, headache, syncope.</item>
</list>
</text>
</section>
</component>
<component>
<section>
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<code code="11493-4" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Hospital Discharge Studies Summary"/>
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<th>Procedure</th>
<th>Observation Date</th>
</tr>
</thead>
<tbody>
<tr>
<td ID="procedure-Procedure-0">CABG</td>
<td ID="procedure-ObservationDate-0">08/09/2009</td>

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</tr>
<tr>
  <td ID="procedure-Procedure-1">LIMA->SVG->Circ</td>
  <td ID="procedure-ObservationDate-1">08/09/2009</td>
</tr>
<tr>
  <td ID="procedure-Procedure-2">SVG->RCA</td>
  <td ID="procedure-ObservationDate-2">08/09/2009</td>
</tr>
</tbody>
</table>
</text>
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    <id extension="1251315463266.9" root="2.16.840.1.113883.3.28.1"/>
    <text>
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    </text>
    <statusCode code="completed"/>
    <effectiveTime value="20090809153737-0400"/>
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    <templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.19"/>
    <id extension="1251315463266.9" root="2.16.840.1.113883.3.28.1"/>
    <text>
      <reference value="#procedure-Procedure-1"/>
    </text>
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    <code code="18776-5" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Treatment Plan"/>
    <title>Treatment Plan</title>
    <text>
      <list>
        <item>Follow up with Dr. Richard Cole, Cardiologist</item>
        <item>Follow up with his primary care physician, Dr. P. Primary in two weeks for diabetic medication monitoring.</item>
      </list>
    </text>
  </section>
</component>
</structuredBody>
</component>
</ClinicalDocument>

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