HIE-to-HIE Data Exchange
Exploring how data “wraps” around the patient in the Patient Centered Data Home (PCDH)

May 18, 2016

Dick Thompson, Executive Director
Sherri Corey, Senior Clinical Account Manager
Laura Head, Interface Project Manager
Principle: Data should follow patient no matter where care has occurred

- Cost-effective
- Scalable
- Providers can query/pull information from other HIEs
- Patient information available when and where needed
- Data becomes part of record in patients’ home HIE
PCDH is an initiative of the SHIEC member HIEs (37)
◆ Shared Vision / Shared Standards
  • ADT commonly used
    - Zip Codes
  • XCA query (eHealth Exchange standard)

◆ Each HIE’s unique structure honored
  • Governance
  • Data use
  • Consent
  • Business models
  • Technical architecture
Model: Patient encounters trigger alerts to care team members, e.g. *event occurred and someone needs to know what happened*

- QHN Alerts to our service area: 01/01/16-04/30/16
  - 65 organizations receiving Alerts
  - 66,897 Alerts delivered (52,783 unique patients)
QHN Clinical Data Reach by Zip

Map based on Longitude (generated) and Latitude (generated). Color shows details about Postal Code (Zip for US). Size shows sum of Count of All Unique Patients in eMPI with Clinical Data.
Map based on Longitude (generated) and Latitude (generated). Color shows details about Postal Code (Zip for US). Size shows sum of Count of All Unique Patients in eMPI with Clinical Data.
QHN- gaining economies of scale without losing autonomy!

- Pilot enlarges QHN footprint
  - Arizona: population 6.6M
    - Arizona HIE: AzHeC
      - MPI: 5.9M
      - 21 hospitals and health systems
      - 2 reference labs and imaging centers
  - Utah: population 3M
    - Utah HIE: UHIN
      - MPI: 1.8M
      - All 4 of the major health systems and most clinics/labs
      - 80% of all providers
How PCDH Works

Clinical
Claims/Billing Info.

Social Determinants
How PCDH Works

Patient receives care at hospital or other source

- Clinical Claims/Billing Info.
- Social Determinants
Patient receives care at hospital or other source

How PCDH Works

QHN

Clinical
Claims/Billing Info.
Social Determinants

Licensed Participants

Licensed Participants
ACO
Payers
Providers

Alert

ADT
How PCDH Works

Patient receives care at hospital or other source.

QHN

- Clinical
- Claims/Billing Info.
- Social Determinants

ADI (MPI#)

Alert

Licensed Participants

- Payers
- ACO
- Providers

Others

Other HIEs

- Arizona (AzHeC)
- Utah (UHIN)
- CORHIO (in process)

Licensed Participants

- Payers
- ACO
- Providers

Others
How PCDH Works

Patient receives care at hospital or other source

QHN

- Clinical
- Claims/Billing Info.
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Other HIEs

- Arizona (AzHeC)
- Utah (UHIN)
- CORHIO (in process)

Licensed Participants

- Others
- ACO
- Payers
- Providers

Licensed Participants

- Others
- ACO
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How PCDH Works

Patient receives care at hospital or other source

QHN

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- Claims/Billing Info.
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Other HIEs

- Arizona (AzHeC)
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- CORHIO (in process)

Licensed Participants

- ACO
- Payers
- Providers

Alert

ADT (MPI#) Acknowledge

Zip Code

Licensed Participants

- ACO
- Payers
- Providers

Alert

ADT
How PCDH Works

Patient receives care at hospital or other source

QHN

Clinical
Claims/Billing Info.
Social Determinants

ADT

Licensed Participants
ACO
Payers
Providers
Others

Zip Code
ADT (MPI#)
Acknowledge
(MPI#)

Other HIEs

Arizona (AzHeC)
Utah (UHIN)
CORHIO (in process)

ADT

Licensed Participants
ACO
Payers
Providers
Others

Alert

Alert
How PCDH Works

Patient receives care at hospital or other source

QHN

- Clinical
- Claims/Billing Info.
- Social Determinants

Licensed Participants
- Others
- ACOs
- Payers
- Providers

Other HIEs

- Arizona (AzHeC)
- Utah (UHIN)
- CORHIO (in process)

Licensed Participants
- Others
- ACOs
- Payers
- Providers

ADT

Alert

Zip Code

ADT (MPI#)

Acknowledged

(MPI#)

Zip Code

ADT (MPI#)

Acknowledged

(MPI#)
How PCDH Works

Patient receives care at hospital or other source

QHN

- Clinical
- Claims/Billing Info.
- Social Determinants

Other HIEs

- Arizona (AzHeC)
- Utah (UHIN)
- CORHIO (in process)

Licensed Participants

- ACO
- Payers
- Providers

Others

ADT

Alert

ADT (MPI#)

Zip Code

Acknowledgment

Zip Code

ADT (MPI#)

Acknowledgment

Licensed Participants

- ACO
- Payers
- Providers

Others

Query

Query
PCDH Activity – 04/01/16 to 05/10/16

• QHN Alerts to other HIEs
  - QHN sent Alerts to UHIN on 300 patients
  - UHIN acknowledged MPI verification on 213 (71%)

• Other HIEs Alerts to QHN
  - UHIN sent Alerts to QHN on 326 patients
  - QHN acknowledged MPI verification on 303 (93%)

• Query data available on these 516 patients!
How Providers Access Information From Other HIEs
Navigate to the Patient Summary section for the patient of interest. In the encounters clinical sections you may note “Admissions” from out of state sources.
Mouse over the Encounter and the hover-over provides details.
Click on the on the Encounter for External Document Search instructions and other details.
This screen opens. External Document Search instructions display. Point of Care information displays.
To view document(s) from other HIE sources click **External Document Search** tab.
Click **Submit External Document Search** in Patient Actions panel.
This screen opens
Select Endpoint
Leave these sections as defaulted. The information available from the out-of-state source is unknown. The default selections will provide the most clinical information.
Leave Date ranges blank
Leave default selections
Submit External Document Search

Select Endpoints

Format Type
- CDA
- CCDA
- Unspecified

Document Type
- Admission History and Physical Note
- Discharge Summarization Note
- Laboratory Studies
- Obstetrical Studies
- Laboratory Report
- Pathology Study Reports
- Summarization of Episode Note

Entry Type
- Stable
- On-Demand
- Stable and On-Demand
- Unspecified

Creation Date Between

Service Date Start Between

Service Date End Between

Role
- Provider/Care Team Member

Reason
- This search is in compliance

Authorizing Provider

Leave Authorizing Provider blank

Submit | Cancel
Click Submit
Spinning wheel indicates system is processing request.
Please note: If you receive a message that patient was not found, or nothing is returned, the source may not have yet uploaded any patient documents OR patient has opted-out of the HIE.
If more than one search External Document Search has been done the most resent is the first listed.
Returned document(s) may be displayed/downloaded in 3 file formats.
Select **Document** to download in XML format to save to folder for EHR import.
Sample XML document.
Select **PDF** to view or save the document.
Sample PDF document.
Indicates number of pages in document.
Click **Ctrl F** to search document. This is a browser function.

### Encounters

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<th>Class (Admission Type)</th>
<th>Service</th>
<th>Status</th>
<th>Associated Providers</th>
<th>Location</th>
<th>Encounter Date</th>
<th>Data Source</th>
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EM, AUNTIE
D.O.B.: 01/01/1916
123 YELLOW BRICK ROAD
GRAND JUNCTION, CO 81501

Contact:
Guardian:
Next of Kin: UNCLE, EM
123 YELLOW BRICK ROAD
GRAND JUNCTION, CO 81501
(970) 123-4567

Encounters

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</table>

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- Encounters
- Medications
- Problems, Conditions, and Diagnoses
- Results
- Vital Signs

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## Medications

<table>
<thead>
<tr>
<th>Medication - Form</th>
<th>Prescribing Provider</th>
<th>Start-End Date</th>
<th>Dose</th>
<th>Refill</th>
<th>Status</th>
<th>Administration Instructions</th>
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<tbody>
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<td>Hydrocodone Bitartrate and Acetaminophen (Hydrocodone Bitartrate and Acetaminophen) 10; 325 mg/1; mg/l TABLET (00591261205) - TABLET</td>
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<td>Trazodone Hydrochloride (Trazodone Hydrochloride) 100 mg/l TABLET (50111043403) - TABLET</td>
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<td>Clopidogrel Bisulfate (clopidogrel) 75 mg/l TABLET, FILM COATED (00378362075) - TABLET, FILM COATED</td>
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</tr>
</tbody>
</table>

Sample PDF document.
Sample PDF document.
Select **HTML** to view or save the document.
## Table of Contents

- Encounters
- Medications
- Problems, Conditions, and Diagnoses
- Results
- Vital Signs
- Purpose

### Encounters

<table>
<thead>
<tr>
<th>Encounter</th>
<th>Providers</th>
<th>Location</th>
<th>Date</th>
<th>Indications</th>
<th>Data Source(s)</th>
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<td>08/17/2015 12:00:00 AM</td>
<td>TABLET, FILM COATED</td>
<td></td>
<td>No Admin Instructions. Dispensed 30.00 - Clopidogrel Buxolate (clopidogrel) 75 mg/1 TABLET: Route: ORAL</td>
</tr>
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<td>10 mg</td>
<td></td>
<td>06/11/2015 12:00:00 AM</td>
<td>TABLET</td>
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<td>No Admin Instructions. Dispensed 90.00 - Hydrocodone Bitartrate and Acetaminophen (Hydrocodone Bitartrate and Acetaminophen) 10 mg/1 TABLET: Route: ORAL</td>
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<td>20 mg</td>
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<td>06/11/2015 12:00:00 AM</td>
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<td>No Admin Instructions. Dispensed 90.00 - Hydrocodone Bitartrate and Acetaminophen (Hydrocodone Bitartrate and Acetaminophen) 10 mg/1 TABLET: Route: ORAL</td>
</tr>
<tr>
<td>Zolpidem Tartrate Tablets 500 mg 10 mg</td>
<td>Zolpidem Tartrate (Zolpidem tartrate) 10 mg/1 TABLET, FILM COATED</td>
<td>11/12/2015 12:00:00 AM</td>
<td>TABLET, FILM COATED</td>
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<tr>
<td>50 mg</td>
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<td>03/03/2015 12:00:00 AM</td>
<td>TABLET EXTENDED RELEASE</td>
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<td>No Admin Instructions. Dispensed 30.00 - Metoprolol succinate (Metoprolol succinate) 50 mg/1 TABLET, EXTENDED RELEASE: Route: ORAL</td>
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<td>20 mg</td>
<td></td>
<td>03/09/2015 12:00:00 AM</td>
<td>TABLET</td>
<td></td>
<td>No Admin Instructions. Dispensed 30.00 - Lisinopril (Lisinopril) 20 mg/1 TABLET: Route: ORAL</td>
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<td>10 mg</td>
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<td>02/09/2015 12:00:00 AM</td>
<td>TABLET</td>
<td></td>
<td>No Admin Instructions. Dispensed 90.00 - Hydrocodone Bitartrate and Acetaminophen (Hydrocodone Bitartrate and Acetaminophen) 10 mg/1 TABLET: Route: ORAL</td>
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<tr>
<td>10 mg</td>
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<td>10/02/2015 12:00:00 AM</td>
<td>TABLET</td>
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<td>No Admin Instructions. Dispensed 90.00 - Hydrocodone Bitartrate and Acetaminophen (Hydrocodone Bitartrate and Acetaminophen) 10 mg/1 TABLET: Route: ORAL</td>
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<tr>
<td>10 mg</td>
<td></td>
<td>04/11/2015 12:00:00 AM</td>
<td>TABLET</td>
<td></td>
<td>No Admin Instructions. Dispensed 90.00 - Hydrocodone Bitartrate and Acetaminophen (Hydrocodone Bitartrate and Acetaminophen) 10 mg/1 TABLET: Route: ORAL</td>
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<td>75 mg</td>
<td></td>
<td>02/02/2015 12:00:00 AM</td>
<td>TABLET, FILM COATED</td>
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<td>No Admin Instructions. Dispensed 30.00 - Clonipidogrel buixlate (Clonipidogrel buixlate) 75 mg/1 TABLET, FILM COATED: Route: ORAL</td>
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<tr>
<td>Ibuprofen Tablets 500 mg</td>
<td>Ibuprofen (Ibuprofen) 500 mg/1 TABLET</td>
<td>04/15/2015 12:00:00 AM</td>
<td>TABLET</td>
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<td>No Admin Instructions. Dispensed 90.00 - Ibuprofen (Ibuprofen) 500 mg/1 TABLET: Route: ORAL</td>
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<td>15; 15; 15 mg</td>
<td></td>
<td>11/13/2015 12:00:00 AM</td>
<td>INJECTION, SUSPENSION</td>
<td></td>
<td>No Admin Instructions. Dispensed 0.00 - Fluvin (Compound) INJECTION, SUSPENSION: Route: INTRAMUSCULAR</td>
</tr>
<tr>
<td>Zolpidem Tartrate Tablets 100 mg</td>
<td>Zolpidem Tartrate (zolpidem tartrate) 10 mg/1 TABLET, FILM COATED</td>
<td>12/09/2015 12:00:00 AM</td>
<td>TABLET, FILM COATED</td>
<td></td>
<td>No Admin Instructions. Dispensed 30.00 - Zolpidem Tartrate (zolpidem tartrate) 10 mg/1 TABLET, FILM COATED: Route: ORAL</td>
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<tr>
<td>Ibuprofen Tablets 500 mg</td>
<td>Ibuprofen (Ibuprofen) 500 mg/1 TABLET</td>
<td>10/14/2015 12:00:00 AM</td>
<td>TABLET</td>
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<td>No Admin Instructions. Dispensed 60.00 - Ibuprofen (Ibuprofen) 500 mg/1 TABLET: Route: ORAL</td>
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<td>Cephalexin Capsules 500 mg</td>
<td>Cephalexin (Cephalexin) 500 mg/1 CAPSULE</td>
<td>09/04/2015 12:00:00 AM</td>
<td>CAPSULE</td>
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<td>No Admin Instructions. Dispensed 21.00 - Cephalexin (Cephalexin) 500 mg/1 CAPSULE: Route: ORAL</td>
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<tr>
<td>10 mg</td>
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<td>12/11/2015 12:00:00 AM</td>
<td>TABLET</td>
<td></td>
<td>No Admin Instructions. Dispensed 90.00 - Hydrocodone Bitartrate and Acetaminophen (Hydrocodone Bitartrate and Acetaminophen) 10 mg/1 TABLET: Route: ORAL</td>
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<tr>
<td>10 mg</td>
<td></td>
<td>07/09/2015 12:00:00 AM</td>
<td>TABLET</td>
<td></td>
<td>No Admin Instructions. Dispensed 90.00 - Hydrocodone Bitartrate and Acetaminophen (Hydrocodone Bitartrate and Acetaminophen) 10 mg/1 TABLET: Route: ORAL</td>
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<tr>
<td>Simvastatin Tablets 1000 mg</td>
<td>Simvastatin (Simvastatin) 20 mg/1 TABLET, FILM COATED</td>
<td>04/16/2015 12:00:00 AM</td>
<td>TABLET, FILM COATED</td>
<td></td>
<td>No Admin Instructions. Dispensed 30.00 - Simvastatin (Simvastatin) 20 mg/1 TABLET, FILM COATED: Route: ORAL</td>
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## Problems, Conditions, and Diagnoses

<table>
<thead>
<tr>
<th>Code</th>
<th>Display Name</th>
<th>Description</th>
<th>Effective Dates</th>
<th>Data Source(s)</th>
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<tr>
<td>R80.20</td>
<td>Calculus of gallbladder without cholecystitis</td>
<td>Calculus of gallbladder without cholecystitis</td>
<td>04/28/2016 10:56 AM - 06:00</td>
<td>Colorado</td>
</tr>
<tr>
<td>116.99</td>
<td>Other pulmonary embolism without acute cor pulmonale</td>
<td>Other pulmonary embolism without acute cor pulmonale</td>
<td>04/28/2016 10:56 AM - 06:00</td>
<td>Colorado</td>
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<tr>
<td>F17.210</td>
<td>Nicotine dependence, cigarettes, uncomplicated</td>
<td>Nicotine dependence, cigarettes, uncomplicated</td>
<td>Moab Regional Hospital</td>
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<tr>
<td>I69.320</td>
<td>Aphasia following cerebral infarction</td>
<td>Aphasia following cerebral infarction</td>
<td>Moab Regional Hospital</td>
<td></td>
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<tr>
<td>Z87.19</td>
<td>Personal history of other diseases of the digestive system</td>
<td>Personal history of other diseases of the digestive system</td>
<td>Moab Regional Hospital</td>
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<td>R07.9</td>
<td>Chest pain, unspecified</td>
<td>Chest pain, unspecified</td>
<td>Moab Regional Hospital</td>
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<tr>
<td>R51</td>
<td>Headache</td>
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<td>Moab Regional Hospital</td>
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<tr>
<td>784.0</td>
<td>HEADACHE</td>
<td>HEADACHE</td>
<td>Moab Regional Hospital</td>
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</table>

## Sample HTML document.

### Results

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<th>ID</th>
<th>Date</th>
<th>Data Source</th>
<th>Notes</th>
</tr>
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<tbody>
<tr>
<td>1604260011</td>
<td>04/26/2016 07:33:00 AM - 06:00</td>
<td>Moab Regional Hospital</td>
<td>Testing Performed At -</td>
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<table>
<thead>
<tr>
<th>Name</th>
<th>Value</th>
<th>Range</th>
<th>Data Source(s)</th>
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<tbody>
<tr>
<td>pH</td>
<td>7.366</td>
<td>None</td>
<td>Moab Regional Hospital</td>
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<tr>
<td>ABG PO2</td>
<td>67.1 mmHg</td>
<td>71 - 95</td>
<td>Moab Regional Hospital</td>
</tr>
<tr>
<td>ABG pCO2</td>
<td>38.7 mmHg</td>
<td>28.3 - 42.7</td>
<td>Moab Regional Hospital</td>
</tr>
<tr>
<td>ABG HC03</td>
<td>22.7 mmol/L</td>
<td>21 - 29</td>
<td>Moab Regional Hospital</td>
</tr>
<tr>
<td>ABG BASE EXCESS</td>
<td>-2.0 mmol/L</td>
<td>-3 - 5</td>
<td>Moab Regional Hospital</td>
</tr>
<tr>
<td>ABG O2</td>
<td>91.5 %</td>
<td>95 - 100</td>
<td>Moab Regional Hospital</td>
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</tbody>
</table>

### Arterial Puncture

<table>
<thead>
<tr>
<th>Name</th>
<th>Value</th>
<th>Range</th>
<th>Data Source(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arterial Puncture</td>
<td>Done</td>
<td>Done</td>
<td>Moab Regional Hospital</td>
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### AMYLASE

<table>
<thead>
<tr>
<th>Name</th>
<th>Value</th>
<th>Range</th>
<th>Data Source(s)</th>
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<tbody>
<tr>
<td>AMYLASE</td>
<td>38.0 U/L</td>
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### LIPASE

<table>
<thead>
<tr>
<th>Name</th>
<th>Value</th>
<th>Range</th>
<th>Data Source(s)</th>
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<tr>
<td>LIPASE</td>
<td>237.0 U/L</td>
<td>73 - 393</td>
<td>Moab Regional Hospital</td>
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### TOTAL PROTEIN

<table>
<thead>
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<th>Name</th>
<th>Value</th>
<th>Range</th>
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</thead>
<tbody>
<tr>
<td>TOTAL PROTEIN</td>
<td>7.2 gm/dL</td>
<td>6.4 - 8.2</td>
<td>Moab Regional Hospital</td>
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<tr>
<td>BILIRUBIN, TOTAL</td>
<td>0.2 mg/dL</td>
<td>0.10 - 1.00</td>
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<tr>
<td>BILIRUBIN-DIRECT</td>
<td>0.0 mg/dL</td>
<td>0.00 - 0.20</td>
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<tr>
<td>INDIRECT BILIRUBIN</td>
<td>0.2 mg/dL</td>
<td>0.4 - 1.5</td>
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</tr>
<tr>
<td>ALBUMIN</td>
<td>3.8 gm/dL</td>
<td>3.4 - 5.0</td>
<td>Moab Regional Hospital</td>
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<tr>
<td>ALK PHOS</td>
<td>106.0 U/L</td>
<td>46 - 115</td>
<td>Moab Regional Hospital</td>
</tr>
<tr>
<td>AST</td>
<td>5.0 U/L</td>
<td>15 - 37</td>
<td>Moab Regional Hospital</td>
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<tr>
<td>ALT</td>
<td>19.0 U/L</td>
<td>12 - 70</td>
<td>Moab Regional Hospital</td>
</tr>
</tbody>
</table>
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Questions?