Medical Report for Patient 007-10067

1. Patient Information

* **Patient Unit Stay ID:** 959746 * **Unique Patient ID:** 007-10067 * **Gender:** Male * **Age:** 80 * **Ethnicity:** Other/Unknown * **Hospital Admission Time:** 2015, 17:39:00 * **Hospital Admission Source:** Emergency Department * **Hospital Discharge Time:** 2015, 20:00:00 * **Hospital Discharge Location:** Home * **Hospital Discharge Status:** Alive * **Unit Type:** Med-Surg ICU * **Unit Admission Time:** 2015, 19:52:00 * **Unit Admission Source:** Emergency Department * **Unit Discharge Time:** 2015, 19:42:00 * **Unit Discharge Location:** Floor * **Unit Discharge Status:** Alive * **Admission Weight:** 86.36 kg * **Discharge Weight:** 85.59 kg * **Admission Height:** 172.72 cm * **APACHE Admission Diagnosis:** Infarction, acute myocardial (MI)

2. History

NULL (Insufficient information provided in the JSON data. A detailed history of present illness, past medical history, family history, social history, and medication history would be needed for a complete section.)

3. Diagnoses

* **Diagnosis ID:** 12790793 * **Patient Unit Stay ID:** 959746 * **Active Upon Discharge:** True * **Diagnosis Offset (minutes from unit admit):** 15 * **Diagnosis String:** cardiovascular|chest pain / ASHD|acute coronary syndrome * **ICD-9 Code:** NULL * **Diagnosis Priority:** Other

4. Treatments

* **Treatment ID 27883572:** cardiovascular|myocardial ischemia / infarction|anticoagulant administration. Active upon discharge: True. * **Treatment ID 28090231:** cardiovascular|arrhythmias|beta blocker. Active upon discharge: True. * **Treatment ID 27901633:** cardiovascular|non-operative procedures|cardiac angiography|with stent placement. Active upon discharge: True.

5. Vital Trends

NULL (No vital sign data provided in the JSON.)

6. Lab Trends

The provided data includes multiple lab results for various chemistry, hematology, and miscellaneous tests taken at different times relative to unit admission. Specific trends require analysis and visualization, detailed below. Initial observations suggest potential electrolyte imbalances and evidence of liver damage (elevated AST/SGOT and ALT/SGPT) and possible dehydration. Further analysis is needed to determine the significance of these findings.

7. Microbiology Tests

NULL (No microbiology test data is provided.)

8. Physical Examination Results

* **Physical Exam Performed:** Yes (Performed - Structured) * **GCS Score:** 15 (4+5+6) * **Systolic Blood Pressure (Current, Lowest, Highest):** 105 mmHg * **Diastolic Blood Pressure (Current, Lowest, Highest):** 63 mmHg * **Admission Weight:** 86.36 kg * **Current Weight:** 86.36 kg * **Weight Delta:** 0 kg

Note: This report is based solely on the provided data and may be incomplete. A comprehensive medical report requires additional information, including a detailed patient history, complete vital signs, and potentially imaging results. The absence of data in certain sections is indicated by NULL.

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2. Chart Description

The most informative visualization would be a time-series line chart with multiple lines.

* **X-axis:** Time since unit admission (in hours or minutes). This allows for tracking changes in lab values and other data over the course of the patient's stay. * **Y-axis:** Lab Result Value (with appropriate units). Multiple Y-axes might be necessary depending on the scale of different lab results. * **Lines:** Each line represents a different lab test (e.g., total protein, anion gap, total bilirubin, AST, chloride, etc.). Different colors would be used to distinguish between the different lab tests. This visualization will help to identify trends in the lab values over time and to correlate these trends with the patient’s clinical course. For example, a declining trend in albumin could indicate ongoing fluid loss or malnutrition; a rising trend in creatinine could indicate worsening renal function.

A second useful visualization would be a grouped bar chart for the complete blood count (CBC) results.

* **X-axis:** Lab Test (e.g., Hgb, Hct, WBC, Platelets, MCV, MCH, MCHC, RDW, % lymphocytes, % monocytes, % neutrophils, % eosinophils, % basophils). * **Y-axis:** Lab Result Value (with appropriate units). * **Groups:** The bars would be grouped by time point (e.g., Admission and Discharge). Different colors for different time points could be used. This chart will allow for a visual comparison of the CBC results at different time points and would highlight any significant changes in the blood counts over the course of the patient’s stay. This could help in assessing the effectiveness of treatments and in identifying any underlying conditions.

A third chart could be a simple bar chart showing the highest, lowest and current values for systolic and diastolic blood pressures. This would provide a clear and concise summary of the patient's blood pressure during the ICU stay.

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3. CSV Data

```csv LabName,LabResult,LabMeasureNameInterface,LabResultOffset,TimeSinceAdmission (minutes) total protein,7.6,g/dL,-137,-137 anion gap,8,, -137,-137 total bilirubin,0.7,mg/dL,-137,-137 AST (SGOT),207,IU/L,-137,-137 chloride,103,mmol/L,-137,-137 albumin,4,g/dL,-137,-137 bicarbonate,26,mmol/L,-137,-137 potassium,4.3,mmol/L,-137,-137 creatinine,0.87,mg/dL,-137,-137 sodium,137,mmol/L,-137,-137 BUN,28,mg/dL,-137,-137 ALT (SGPT),46,IU/L,-137,-137 glucose,149,mg/dL,-137,-137 magnesium,1.9,mg/dL,-137,-137 MCHC,33.4,g/dL,2273,2273 Hct,41.5,%,2273,2273 Hgb,13.9,g/dL,2273,2273 MCV,95.3,fL,2273,2273 RDW,13.5,%,2273,2273 platelets x 1000,158,th/uL,2273,2273 RDW,13.9,%, -137,-137 WBC x 1000,12.8,th/uL,-137,-137 MPV,8.5,fL,-137,-137 MCH,31.9,pg,2273,2273 -eos,0.1,%, -137,-137 -monos,10,%,2273,2273 -monos,5.5,%, -137,-137 -basos,0.3,%,2273,2273 -polys,85.6,%, -137,-137 -lymphs,8.3,%,2273,2273 -lymphs,8.5,%, -137,-137 total protein,6.5,g/dL,858,858 chloride,108,mmol/L,858,858 albumin,3.4,g/dL,858,858 BUN,21,mg/dL,858,858 calcium,9,mg/dL,858,858 AST (SGOT),381,IU/L,858,858 ALT (SGPT),65,IU/L,858,858 glucose,109,mg/dL,858,858 bicarbonate,26,mmol/L,858,858 anion gap,8,,858,858 total bilirubin,1.4,mg/dL,858,858 creatinine,0.74,mg/dL,858,858 sodium,142,mmol/L,858,858 potassium,4.1,mmol/L,858,858 phosphate,2.6,mg/dL,858,858 magnesium,1.9,mg/dL,858,858 Hct,42.1,%,858,858 -basos,0.2,%,858,858 -polys,81.6,%,858,858 -lymphs,8.6,%,858,858 MCHC,34,g/dL,858,858 MCH,32.3,pg,858,858 MCV,94.9,fL,858,858 RDW,13.6,%,858,858 WBC x 1000,13.2,th/uL,858,858 MPV,8.9,fL,858,858 RBC,4.44,mill/uL,858,858 -monos,9.5,%,858,858 PT,13.3,sec,-137,-137 PTT,31.6,sec,-137,-137 PT - INR,1.2,ratio,-137,-137 bedside glucose,122,mg/dL,510,510 bedside glucose,145,mg/dL,1285,1285 potassium,4.2,mmol/L,2273,2273 sodium,140,mmol/L,2273,2273 chloride,105,mmol/L,2273,2273 bicarbonate,27,mmol/L,2273,2273 BUN,22,mg/dL,2273,2273 creatinine,0.87,mg/dL,2273,2273 glucose,104,mg/dL,2273,2273 total cholesterol,129,mg/dL,2273,2273 triglycerides,47,mg/dL,2273,2273 anion gap,8,,2273,2273 calcium,9,mg/dL,2273,2273 RBC,4.35,mill/uL,2273,2273 WBC
```

x 1000,15.8,th/uL,2273,2273 Hgb,14.3,g/dL,858,858 Hct,47.2,%, -137,-137 platelets x 1000,214,th/uL,-137,-137 platelets x 1000,174,th/uL,858,858 -basos,0.3,%, -137,-137 -polys,81.4,%,2273,2273 -lymphs,8.6,%,858,858 -monos,5.5,%, -137,-137 -eos,0.1,%,858,858 MCH,31.3,pg,-137,-137 MCV,95.5,fL,-137,-137 MCHC,32.7,g/dL,-137,-137 MPV,8.7,fL,2273,2273 ```

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