

****Medical Report: Patient 003-10799****

****1. Patient Information:****

* **Patient Unit Stay ID:** 296927 * **Unique Patient ID:** 003-10799 * **Gender:** Male * **Age:** 66 * **Ethnicity:** Caucasian * **Hospital Admission Time:** 2014-XX-XX 01:21:00 * **Hospital Admission Source:** Operating Room * **Hospital Discharge Time:** 2014-XX-XX 20:35:00 * **Hospital Discharge Location:** Skilled Nursing Facility * **Hospital Discharge Status:** Alive * **Unit Type:** Med-Surg ICU * **Unit Admission Time:** 2014-XX-XX 09:12:00 * **Unit Admission Source:** Floor * **Unit Visit Number:** 2 * **Unit Stay Type:** Readmit * **Unit Discharge Time:** 2014-XX-XX 20:33:00 * **Unit Discharge Location:** Floor * **Unit Discharge Status:** Alive * **Admission Weight:** 113 kg * **Discharge Weight:** 113 kg * **Admission Height:** 182.9 cm

****2. History:****

The provided data does not contain a detailed patient history. Further information is needed to complete this section. The available data suggests a readmission to the Med-Surg ICU following an exploratory laparotomy (post-GI surgery) and the presence of a gastric viscus perforation. Additional information about the patient's symptoms prior to admission, relevant past medical history, family history, and social history is missing. The admission diagnosis for the ICU stay was a rhythm disturbance (atrial, supraventricular). The patient's reason for readmission is unclear. A complete history is crucial for proper assessment and management. This section will be updated with additional information.

****3. Diagnoses:****

* **Primary Diagnosis (Active upon Discharge):** gastrointestinal|post-GI surgery|s/p exploratory laparotomy (ICD-9 code: NULL) * **Other Diagnoses (Active upon Discharge):** cardiovascular|arrhythmias|atrial fibrillation|with rapid ventricular response (ICD-9 code: 427.31, I48.0) * **Other Diagnoses (Inactive upon Discharge):** gastrointestinal|intestinal disease|viscus perforation|gastric (ICD-9 code: 537.9, K31.9)

The presence of both gastrointestinal and cardiovascular diagnoses indicates a complex clinical picture. The inactive diagnoses suggest these were addressed and resolved during the ICU stay. The absence of ICD-9 codes for some diagnoses limits the detailed analysis of the severity and related complications.

****4. Treatments:****

The patient received a wide range of treatments during their ICU stay. Active treatments upon discharge included:

* cardiovascular|myocardial ischemia / infarction|nitroglycerin * neurologic|pain / agitation / altered mentation|sedative agent|lorazepam * general|support services|occupational therapy consult * gastrointestinal|medications|stress ulcer prophylaxis|esomeprazole * general|support services|physical therapy consult * cardiovascular|arrhythmias|beta blocker|metoprolol * infectious diseases|medications|therapeutic antibacterials|empiric antibacterial coverage * pulmonary|medications|bronchodilator|beta-agonist * neurologic|pain / agitation / altered mentation|analgesics|neuraxial analgesics * cardiovascular|vascular disorders|VTE prophylaxis|compression boots * pulmonary|medications|bronchodilator|nebulized * renal|electrolyte correction|electrolyte administration|intravenous * renal|electrolyte correction|electrolyte administration|magnesium * endocrine|glucose metabolism|glucose|D50 * endocrine|glucose metabolism|insulin * cardiovascular|consultations|Cardiology consultation * renal|intravenous fluid|normal saline administration * renal|intravenous fluid|Lactated Ringer's administration * gastrointestinal|nutrition|enteral feeds|tube feeding * pulmonary|medications|nicotine patch * infectious diseases|medications|therapeutic antibacterials|quinolone|levofloxacin * infectious diseases|medications|therapeutic antibacterials|metronidazole * cardiovascular|non-operative procedures|diagnostic ultrasound of heart|transthoracic echocardiography

The numerous treatments highlight the severity and multi-system involvement of the patient's condition. The use of multiple medications, including antiarrhythmics, analgesics, sedatives, and antibiotics, suggests a complex management approach.

****5. Vital Trends:** NULL ****6. Lab Trends:******

The lab results show several key findings: Serial glucose measurements indicate hyperglycemia requiring management with insulin and D50. Electrolyte levels (potassium, magnesium, sodium, chloride, bicarbonate) were monitored and corrected as needed. Hematological parameters (Hct, MCV, MCH, MCHC, RDW, platelets, WBC, RBC) were also monitored. Liver function tests (ALT, AST, alkaline phosphatase, total bilirubin, total protein) showed mild elevation. Anion gap was monitored. Bedside glucose values were frequently monitored throughout the stay. The trends in these parameters will be analyzed further and visualized to highlight any significant changes or patterns.

****7. Microbiology Tests:** NULL ****8. Physical Examination Results:******

The physical examination results are limited to a GCS score of 15 (Eyes 4, Verbal 5, Motor 6) and an admission weight of 101.6 kg. A more comprehensive physical examination would be needed for a complete evaluation.

****Visualization Description:****

A line chart should be generated to visualize the trends of key laboratory parameters over time. The x-axis should represent the time since unit admission (in minutes), and the y-axis should represent the lab values. Each line would represent a different lab parameter (e.g., glucose, potassium, creatinine, bicarbonate). This visualization would help to identify any significant fluctuations or trends in these values over the course of the patient's ICU stay and inform the treatment decisions. A second chart, a bar chart, could show the distribution of treatments per category (cardiovascular, gastrointestinal etc) to understand the proportion of various treatment types.

****Summary Tables (CSV):****

```
```csv Lab_Parameter,Time_Since_Admission (minutes),Value,Unit glucose,33,279,mg/dL glucose,288,352,mg/dL
glucose,846,352,mg/dL glucose,1553,188,mg/dL glucose,1629,201,mg/dL glucose,2303,281,mg/dL
glucose,2995,306,mg/dL glucose,3008,304,mg/dL glucose,3384,300,mg/dL potassium,33,3.4,mmol/L
potassium,768,3.9,mmol/L potassium,1553,3.5,mmol/L potassium,2153,3.7,mmol/L potassium,3008,4.2,mmol/L
creatinine,33,0.81,mg/dL creatinine,1553,0.88,mg/dL creatinine,3008,0.88,mg/dL bicarbonate,33,25,mmol/L
bicarbonate,1553,27,mmol/L bicarbonate,3008,28,mmol/L
```

```

```
```csv Treatment_Category,Count Cardiovascular,11 Gastrointestinal,7 Neurologic,4 Renal,5 Infectious Diseases,5
Pulmonary,5 Endocrine,3 General,4 ```
```