**Script Documentation: urine\_output**

* **Overview**: This script generates a table that aggregates urine output data for ICU patients by calculating total urine output based on various input observations. It considers specific observations from both CareVue and MetaVision systems.
* **Key References**: The script references ITEMIDs associated with urine output measurements from CareVue and MetaVision systems.
* **Logic Summary**: The script retrieves urine output data, treating the GU irrigant volume as a negative value to account for irrigation effects. It then sums the urine output for each ICU stay at specific chart times.
* **Process Steps**:
  + **Data Preparation**:
    - The outputevents table is queried to retrieve relevant urine output measurements based on specified ITEMIDs from both systems.
  + **Value Adjustment**:
    - The script applies a case statement to convert GU irrigant volumes into negative values.
  + **Aggregation**:
    - The total urine output is calculated by summing values for each ICU stay, grouped by icustay\_id and charttime.
* **Output**: The script produces a table containing:
  + ICU stay identifier (icustay\_id).
  + Time of urine output measurement (charttime).
  + Total urine output volume (value).

**Example Query**:  
sql  
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SELECT \* FROM urine\_output;

* **Important Notes**:
  + The script includes a sanity check to ensure urine output values are less than 5000 to filter out erroneous entries.
  + It guarantees that only non-null ICU stay identifiers are considered in the output.
* **Conclusion**: This script effectively compiles and aggregates urine output data from multiple sources, facilitating accurate assessments of patient fluid balance in the ICU.