Sutter Health
Sutter Roseville Medical Center

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Owner:	*Matthew Sawyer: Spvr, Laboratory*
Policy Area:	*Lab - Chemistry*
References:	
Applicability:	*Sutter Roseville Medical Center*

24 Hour Urine Processing, Measuring and Resulting

PURPOSE

To provide guidelines for processing, measuring and resulting 24 hour urine samples.

POLICY

This policy is broken down into 3 main sections:

- Measuring Total Volume: measure the 24 hour urine volume by using a scale and documenting on the log.
- Preparing Sample for Testing: process and preserve the sample per attached preparing urine chemistry criteria.
- Entering Total Volume and Collection Duration: enter the specimen total volume and collection duration into Sunquest.

PROCEDURE

Measuring Total Volume

Equipment

- APX-4001 Digital Scale (Denver Instrument)
- AC adapter

Scale Preparation

- Scale should be on a level surface, ensure that bubble is centered in the circle by adjusting the feet.
- The AC adapter must be plugged into the scale and into a 120v electrical receptacle.

Scale Maintenance

Step	Action
1	Unplug the AC adapter from the scale.
2	Clean the scale using a cloth which has been wet with mild detergent.
3	After cleaning, wipe down the scale with a soft, dry cloth.

Measuring Urine

NOTE: If scale is inoperable or an empty jug is unavailable, measure volume using a graduated cylinder.

Step	Action
1	Press the on/off key to turn the scale on. It should read 0.0g
2	Place a clean, empty collection container on the scale. **Note** : the empty container must be the same kind as the urine container being weighed.
3	Once weight displays then press the **ZERO** key and remove the empty container. Ensure that the weight of the empty container displays as a negative number. For example: -119.0g
4	Place the urine container to be weighed on the scale.

Recording the Volume

Step	Action
1	Place aliquot label with Pt name, MRN and Acc # on Attachment: *24hr Urine Volume Log.* Then record the following: • Date/Time • Total volume • Collection Duration • Height • Weight • Tech code
2	Record the weight without referencing the decimal position. Example: (1 gram = 1 mL) • 1456.4 grams = 1456 mL • 1456.6 grams = 1456 mL

Preparing Sample for Testing

Reagents

- Enzyme Diluent
  - Reconstitute with 10mL of DI water (see package insert for complete instructions)
  - Refrigerator R2
- 6N HCL
  - Ready to Use
  - Corrosive Cabinet
- 5.0% NAOH
  - Ready to Use
  - Corrosive Cabinet

Processing Urine Sample

Step	Action
1	Notate the total volume on each aliquot label.

2	Mix sample well.
3	Designate one aliquot tube as "extra" with no additive and store in freezerworks.
4	Prepare the remaining 24 hour urine aliquots for testing as listed on Attachment: *Preparing 24 hour Urine Chemistry Samples for Testing*.
5	Discard 24 hour urine container and remaining contents appropriately.

Entering Total Volume and Collection Duration

Note: To be completed by CLS or MLT.

Prompt	Action
1. In Sunquest	Click Order Entry
2. Lookup By	Accession Number
3. Value	Enter Acc# and click Search
4. Patient Display	Confirm patient info, click Select
5. Patient Orders Display	Click Results
6. Result Entry	Enter collection durration and total volume • xxPER = total hours • xxVOL = total volume If indicated enter height and weight • HT = height (inches) • WT = weight (lbs) Click Save
7. Patient Orders	Click Patient Select to return to Acc# lookup

REFERENCES

- Dimension Vista System Operator's Guide
- Analyte Specific Siemens Vista Instructions for Use (IFU)

All revision dates: 8/6/2020

Attachments

24 Hour Urine Volume Log
Preparing 24 hour Urine Chemistry Samples for Testing

Approval Signatures

Step Description	Approver	Date
Medical Director	Lindsey Westerbeck: Dir, Lab	8/6/2020

Step Description	Approver	Date
Laboratory Director	Lindsey Westerbeck: Dir, Lab	7/13/2020