

**OLIVE VIEW-UCLA MEDICAL CENTER
DEPARTMENT OF NEPHROLOGY
POLICY & PROCEDURE**

**NUMBER: 11770
VERSION: 1**

SUBJECT/TITLE: **DIALYSIS: DIALYSIS: CONDUCTIVITY OR TOTAL SOLUTE DETERMINATION**

POLICY: May be performed by a hemodialysis nurse or trained renal dialysis technician

Test the conductivity and approximate pH of the dialysate with an independent device before beginning treatment. Test it also when changing concentrates during treatment and when switching from the bi^bbag system to liquid bicarbonate*. The wrong conductivity or pH may cause serious injury or death.

PURPOSE: To determine the safe use of the dialysate. Calibration of the dialysis machine during periodic maintenance

DEPARTMENTS: **ALL**

PROCEDURE: The total solute (T.S.) meter must be calibrated with a standard solution before use.

1. Rinse T.S. meter (Myron meter) with standard, check if calibrated with standard.
2. Rinse with dialysate bath twice for accurate conductivity.
3. Pour a capful of dialysate into the T.S. meter and press button holding it firmly for a few seconds until the indicator is stabilized.
 - T.S. is read in millimhos (mSi).
 - Proper baths should have a conductivity of 13.2-14.2 unless bath is a specially made bath for a specific patient, thus T.S. would correlate with the sodium.
4. For periodic calibration the renal dialysis maintenance technician uses an electronic conductivity meter.

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References:	
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