

DEPARTMENTAL POLICIES & PROCEDURES

SUBJECT SECTION: PHARMACY
NUMBER:phosphate_replacement_critical.doc

TITLE:
9/5/06

CRITICAL CARE PHOSPHATE IV REPLACEMENT PROTOCOL

PURPOSE:

To provide guidelines in TNI, CCU AND MSI for administration of IV phosphate replacement via central or peripheral line based on serum phosphate levels.

SUPPORTIVE DATA:

This protocol is restricted to the critical care units only. . A physician's order for IV phosphate replacement protocol will be obtained. Pharmacy will review lab results and following the designated parameters, replace phosphate if needed in the appropriate form (sodium, potassium) and in the correct volume of the appropriate solution (D5W, NaCl). Pharmacy will continue to follow the protocol until the physician writes an order to discontinue it or the patient is transferred out of the critical care unit

EQUIPMENT:

IV infusion pump
Medication

PROCEDURE:

1. Obtain daily labs including P,Ca,Na,K,Bun,Scr,Albumin, and Mg.
2. Obtain Q-T interval measurement half way through infusion and/or change in rhythm. Document on Rhythm Strip.
3. Pharmacy will review morning or admission lab work and determine per designated parameters what phosphate replacement solution to send.
4. Do not follow protocol and Contact physician if: Estimated CRCL<30,BUN>80,Albumin corrected Ca<7.5 or>11.0 or if Ca level drops> 1mg/dl during therapy, Mg<1.5 if patient is not already on Magnesium protocol. Obtain specific order.
5. Protocol Parameters:

Phosph level	Phosphate Bolus	Potassium	Sodium	Central line soln	Peripheral soln	Infusion time
<1.0	Call	physician	-----	-----		-----
1.1-1.5	80mmol	<4.0 Give kphos >4.0 Give Naphos	Not applicable >145 call MD	500ml D5W or NS	1000ml D5W or NS	12 hours
1.6-2.0	60mmol	<4.0 Give kphos >4.0 Give Naphos	Not applicable >145 call MD	500ml D5W or NS	1000ml D5W or NS	10 hours
2.1-2.5	40mmol	<4.0 Give kphos >4.0 Give Naphos	Not applicable >145 call MD	250ml D5W or NS	500ml D5W or NS	6 hours

Notes:

80mmol NaPhos contains 107 mEq Na; 80mmol Kphos contains 117 mEq K
60mmol NaPhos contains 80 mEq Na; 60mmol Kphos contains 88 mEq K
40mmol NaPhos contains 53 mEq Na; 40mmol Kphos contains 59 mEq K

6. If K level<4.0 and KCL replacement protocol is in place the Kphos replacement will take precedence unless otherwise specified by the physician. Nurses will not give KCL boluses until checking with physician.