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Riverside Medical Center
Electrolyte Replacement Protocol

RIVERSIDE HEALTHCARE

POTASSIUM REPLACEMENT PROTOCOL

For patients with GFR > 30ml/min

Potassium Level (mmol/L)	Replacement dose	Recheck K+ level
3.1 - 3.4	• If able to take PO, give KCL 40meq PO x 1 • If unable to take PO, give KCL 20meq IV Q2H x 2	Next am
2.8 – 3.0	• If able to take PO, give KCL 20meq PO Q4H x 3 • If unable to take PO, give KCL 20meq IV Q2H x 3	6 hours after last dose
</= 2.7	• Give KCL 20meq IV Q2H x 4 and call provider	2 hours after last dose

For patients with GFR < 30ml/min

Potassium Level (mmol/L)	Replacement dose	Recheck K+ level
3.1 - 3.4	• If able to take PO, give KCL 20meq PO x 1 • If unable to take PO, give KCL 20meq IV x 1	Next am
2.8 – 3.0	• If able to take PO, give KCL 40meq PO x 1 • If unable to take PO, give KCL 20meq IV Q2H x 2	6 hours after last dose
</= 2.7	• Give KCL 20meq IV Q2H x 3 and call provider	2 hours after last dose

* *Peripheral administration max concentration*: 20meq/100mL
* *Peripheral administration max rate*: 10meq/hr (20meq/hr if on tele monitored bed)
* *Central administration max concentration*: 40meq/100mL
* *Central administration max rate:* 10meq/hr (20meq/hr if on tele monitored bed)

MAGNESIUM REPLACEMENT PROTOCOL

Magnesium Level (mg/dL)	Replacement dose	Recheck Mg++ level
1.4 - 1.6	• Give Magnesium sulfate 1gm IV x 1	Next am
1.0 - 1.3	• Give Magnesium sulfate 2gm IV x 1	Next am
< 1.0	• Give Magnesium sulfate 2gm IV Q2H x 2	4 hours after last dose given

* *Standard concentration*: 1gm/100mL (*max concentration*: 2gm/100mL)

ONE TIME USE ONLY

_____ _____
Physician's Signature Date/Time

PATIENT STICKER

_____ _____
Nurse's Signature Date/Time

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CALCIUM REPLACEMENT PROTOCOL

*****Check albumin and calculate corrected calcium prior to supplementation *****

Calcium Level (mmol/L)	Replacement dose	Recheck Ca++ level
7.2 – 8.2 (ionized 1.01 – 1.14)	• Give Calcium gluconate 1gm IV x 1	Next am
6.1 – 7.1 (ionized 0.91 – 1.00)	• Give Calcium gluconate 2gm IV x 1	6 hours after last dose
</= 6 (ionized </= 0.9)	• Give Calcium gluconate 2gm IV x 2	2 hours after last dose

* *Standard concentration*: 1gm/50mL (administer over 1 hour)
**** Calculate corrected calcium (corrected calcium = serum calcium + 0.8(4 – serum albumin) or obtain ionized calcium before replacement****

PHOSPHATE REPLACEMENT PROTOCOL

Phosphorus Level (mg/dL)	Replacement dose	Recheck Phos level
1.5 – 2.4	• Give Sodium phosphate 15mmol IV over 2 hours	Next am
</= 1.4	• Give Sodium phosphate 30mmol IV over 4 hours	6 hours after last dose

* *Standard concentration*: all doses mixed in 250mL (D_5W or NS)
* If using potassium phosphate, each 15mmol of phosphate contains 22 meq of K+

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_____ _____
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