

## CRRT Electrolyte Replacement [1175]

These orders are intended for the treatment of electrolyte depletion in ADULTS who are currently undergoing CONTINUOUS RENAL REPLACEMENT THERAPY (CRRT). All patients on CRRT should have ELECTROLYTES (BMP, Mg, Phos and iCa) monitored at least EVERY 12 HOURS.

If CRRT is off for >4 hours then repeat a BMP, Mg, Phos and iCa immediately.

For patients with dosing or monitoring needs other than those outlined, please submit separate orders.

## Medications

### Potassium Chloride IV or PO (Single Response)

Potassium Level (mEq/L) Potassium Chloride Dose Monitoring

3.6-3.9 40 mEq PO or IV with next CRRT labs (q6, 8 or 12 hours per nephrologist orders)

3.1-3.5 60 mEq PO or IV

2.6-3 80 mEq IV ONLY 2 hours post administration

LESS THAN 2.5 100 mEq IV ONLY

Patients tolerating oral feeding without symptomatic electrolyte abnormalities or potassium level of  $\geq 3$  mEq/L should receive oral replacement.

#### ( ) For potassium 3.6-3.9 mEq/L (Single Response)

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|---|--|
| ( ) potassium chloride IVPB - CENTRAL LINE                            | 20 mEq, intravenous, Administer over: 60 Minutes, every 1 hour, For 2 Doses<br>Total dose 40 mEq. Recheck potassium level with next CRRT labs (q6, 8 or 12 hours per nephrologist orders). For Central Line administration ONLY.   |
| ( ) potassium chloride tablet - DO NOT crush                          | 40 mEq, oral, once, For 1 Doses<br>Total dose 40 mEq. Recheck potassium level with next CRRT labs (q6, 8 or 12 hours per nephrologist orders).   |
| ( ) potassium chloride oral packet - OK for NG/OG tube administration | 40 mEq, Nasogastric, once, For 1 Doses<br>Total dose 40 mEq. Recheck potassium level with next CRRT labs (q6, 8 or 12 hours per nephrologist orders). Dissolve the contents of each packet in 4 ounces of water or other beverage. |

#### ( ) For potassium 3.1-3.5 mEq/L (Single Response)

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|---|--|
| ( ) potassium chloride IVPB - CENTRAL LINE                            | 20 mEq, intravenous, Administer over: 60 Minutes, every 1 hour, For 3 Doses<br>Total dose 60 mEq. Recheck potassium level with next CRRT labs (q6, 8 or 12 hours per nephrologist orders). For Central Line administration ONLY.           |
| ( ) potassium chloride tablet - DO NOT crush                          | 60 mEq, oral, once, For 1 Doses<br>Total dose 60 mEq. Recheck potassium level with next CRRT labs (q6, 8 or 12 hours per nephrologist orders).   |
| ( ) potassium chloride oral packet - OK for NG/OG tube administration | 20 mEq, Nasogastric, every 15 min, For 3 Doses<br>Total dose 60 mEq. Recheck potassium level with next CRRT labs (q6, 8 or 12 hours per nephrologist orders). Dissolve the contents of each packet in 4 ounces of water or other beverage. |

#### ( ) For potassium 2.6-3 mEq/dL

##### "And" Linked Panel

- |                             |   |
|-----------------------------|---|
| [ ] potassium chloride IVPB | 20 mEq, intravenous, Administer over: 60 Minutes, every 1 hour, For 4 Doses<br>Total dose 80 mEq. Recheck potassium level 2 hours after total dose is administered. For Central Line administration ONLY. |
| [ ] Recheck potassium level | Once, Starting H+6 Hours For 1 Occurrences<br>Recheck potassium level 2 hours after total dose is administered.   |

#### ( ) For potassium level LESS than 2.5 mEq/dL

##### "And" Linked Panel

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|-----------------------------|--|
| [ ] potassium chloride IVPB | 20 mEq, intravenous, Administer over: 60 Minutes, every 1 hour, For 5 Doses<br>Total dose 100 mEq. Recheck potassium level 2 hours after total dose is administered. For Central Line administration ONLY. |
| [ ] Recheck potassium level | Once, Starting H+7 Hours For 1 Occurrences<br>Recheck potassium level 2 hours after total dose is administered.  |

**Magnesium IV (Single Response)**

Magnesium Level (mg/dL) Magnesium Sulfate Dose Monitoring  
 1.5-1.9 3 g IV with next CRRT labs (q6, 8 or 12 hours per nephrologist orders)  
 LESS THAN 1.5 4 g IV 2 hours post administration

( ) For magnesium 1.5-1.9 mg/dL	3 g, intravenous, once, For 1 Doses Infusion rate is 3 gm over 3 hours for peripheral or central infusion. Recheck magnesium level with next CRRT labs (q6, 8 or 12 hours per nephrologist orders).
( ) For magnesium LESS THAN 1.5 mg/dL	<b>"And" Linked Panel</b>
<input type="checkbox"/> magnesium sulfate IV	4 g, intravenous, once, For 1 Doses Infusion rate is 4 gm over 4 hours for peripheral or central infusion. Recheck magnesium level 2 hours after total dose is administered.
<input type="checkbox"/> Recheck magnesium level	Once, Starting H+6 Hours For 1 Occurrences Recheck magnesium level 2 hours after total dose is administered.

**Phosphate IV (Single Response)**

Phosphate Level (mg/dL) Sodium Phosphate Dose Monitoring  
 2.5-3 20 mmol IV with next CRRT labs (q6, 8 or 12 hours per nephrologist orders)  
 2-2.4 30 mmol IV  
 1.5-1.9 40 mmol IV 2 hours post administration  
 LESS THAN 1.5 60 mmol IV

( ) For phosphate 2.5 - 3 mg/dL	20 mmol, intravenous, once, For 1 Doses Total dose 20 mmol. Recheck phosphorous level with next CRRT labs (q6, 8 or 12 hours per nephrologist orders)
( ) For phosphate 2 – 2.4 mg/dL	30 mmol, intravenous, once, For 1 Doses Total dose 30 mmol. Recheck phosphorous level with next CRRT labs (q6, 8 or 12 hours per nephrologist orders).
( ) For phosphate 1.5 – 1.9 mg/dL	<b>"And" Linked Panel</b>
<input type="checkbox"/> sodium phosphate IVPB	40 mmol, intravenous, once, For 1 Doses Total dose 40 mmol. Recheck phosphorous level in 2 hours after total dose is administered.
<input type="checkbox"/> Recheck phosphorus level	Once, Starting H+10 Hours For 1 Occurrences Recheck phosphorous level in 2 hours after total dose is administered.
( ) For phosphate LESS THAN 1.5 mg/dL	<b>"And" Linked Panel</b>
<input type="checkbox"/> sodium phosphate IVPB	60 mmol, intravenous, once, For 1 Doses Total dose 60 mmol. Recheck phosphorous level 2 hours after total dose is administered.
<input type="checkbox"/> Recheck phosphorus level	Once, Starting H+10 Hours For 1 Occurrences Recheck phosphorous level 2 hours after total dose is administered.

**Calcium IV For Non-Anticoagulant Citrate Dextrose or Continuous Infusion Patients (Single Response)**

Ionized Calcium Level (mg/dL) Calcium Chloride Dose  
 (Central Line) Monitoring  
 1-1.1 2 g IV with next CRRT labs (q6, 8 or 12 hours per nephrologist orders)  
 0.8-0.99 3 g IV  
 LESS THAN 0.8 4 g IV

Must be administered through CENTRAL LINE

( ) For ionized calcium 1 – 1.1 mg/dL	1 g, intravenous, Administer over: 60 Minutes, every 1 hour, For 2 Doses IRRITANT. Infuse through Central Line only. Total dose 2 gm. Recheck ionized calcium level with next CRRT labs (q6, 8 or 12 hours per nephrologist orders). Do not infuse in the same IV line as phosphate-containing solutions. Stop the infusion if patient complains of pain or discomfort. Infuse NO faster than 1 gm per hour.
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<p>( ) For ionized calcium 0.8 – 0.99 mg/dL</p>	<p>1 g, intravenous, Administer over: 60 Minutes, every 1 hour, For 3 Doses  IRRITANT. Infuse through Central Line only. Total dose 3 gm. Recheck ionized calcium level with next CRRT labs (q6, 8 or 12 hours per nephrologist orders). Do not infuse in the same IV line as phosphate-containing solutions. Stop the infusion if patient complains of pain or discomfort. Infuse NO faster than 1 gm per hour.</p>
<p>( ) For ionized calcium LESS THAN 0.8 mg/dL</p>	<p>1 g, intravenous, Administer over: 60 Minutes, every 1 hour, For 4 Doses  IRRITANT. Infuse through Central Line only. Total dose 4 gm. Recheck ionized calcium level with next CRRT labs (q6, 8 or 12 hours per nephrologist orders). Do not infuse in the same IV line as phosphate-containing solutions. Stop the infusion if patient complains of pain or discomfort. Infuse NO faster than 1 gm per hour.</p>

## Labs

<b>Labs</b>	
[ ] Basic metabolic panel	Once For 1 Occurrences
[ ] Potassium	Once For 1 Occurrences
[ ] Magnesium	Once For 1 Occurrences
[ ] Phosphorus	Once For 1 Occurrences
[ ] Ionized calcium	Once For 1 Occurrences