

Hyperkalemia Acute Therapy Order Set [2 orders of 21 are selected]

Visit Problem:

HYPERKALEMIA - ACUTE THERAPY ALGORITHM

This protocol is intended to serve as a general guideline. IT WILL NOT BE APPROPRIATE FOR ALL PATIENTS, PARTICULARLY PATIENTS WITH RAPIDLY CHANGING CONDITIONS. Great care should be taken to ascertain the cause of the hyperkalemia and attention paid to complicating comorbidities. Ultimately, the management of hyperkalemia must be individualized.

Potassium Level 5.3 - 5.6 mmol/L:

- Confirm potassium level elevation; check EKG
- NO IMMEDIATE ACUTE STABILIZATION TREATMENT IS NECESSARY IF THE POTASSIUM LEVEL IS IN THE RANGE OF 5.3 - 5.6 mmol/L AND THE EKG IS NEGATIVE.
- Place patient on a low potassium diet and/or re-evaluate the use of potassium sparing medications (ACEIs, ARBs, Spironolactone, NSAIDs, potassium sparing diuretics, potassium supplements, trimethoprim, pentamidine, etc.)
- IF EKG IS POSITIVE, INSTITUTE ACUTE STABILIZATION ORDERS (BELOW) AND CONTACT RENAL FELLOW.

Potassium Level 5.6 - 6.4 mmol/L:

- Confirm potassium level elevation; check EKG
- IF EKG NEGATIVE, HOLD ACUTE STABILIZATION TREATMENT UNTIL RENAL FELLOW IS CONTACTED IN PATIENTS WITH ESRD. If patient does not have ESRD, consider contacting renal fellow.
- IF EKG POSITIVE, INITIATE ACUTE HYPERKALEMIA THERAPY ORDERS AND THEN CONTACT THE RENAL FELLOW.

Potassium Level greater than 6.4 mmol/L:

- Confirm potassium level elevation; check EKG
- INITIATE ACUTE HYPERKALEMIA STABILIZATION ORDERS AND THEN CONTACT THE RENAL FELLOW.

Initial Orders:

Order	Priority	Reason for Exam
- INITIAL ORDERS - 3 item(s)		
<input type="checkbox"/> 12 Lead ECG	STAT	Hyperkalemia
<input type="checkbox"/> Centralized Telemetry Monitoring	STAT	
<input type="checkbox"/> Diet (-.Renal-Low Pro Pre-Dialysis (2 gm Na, 60 mEq K, 800 mg Phos, 60 gm Pro))	Routine	

STAT Initial Lab Orders

- Glucose Point of Care Potassium Level Whole Blood

Fluid Orders:

If patient is volume depleted and does not have ESRD

Order	Dose	Unit	Route	IV Rate	Duration	Duration Unit	Indication	Comments
- IV FLUIDS - 1 item(s)								
<input type="checkbox"/> Normal Saline	1,000	ml	IV				fluid/electrolyte replacement	

Acute Hyperkalemia Stabilization Orders:

Order	Dose	Unit	Route	Frequency	Indication	Comments
[-] MEDICATION - 4 item(s)						
<input type="checkbox"/> Calcium Gluconate Injection	1,000	mg	IV Push	NOW	hyperkalemia	
<input type="checkbox"/> Dextrose 50%	50	ml	IV Push	NOW	hyperkalemia	Give PRIOR to insulin administration
<input type="checkbox"/> D10W Bolus	250	ml	IVPB	ONCE	hyperkalemia	Administer 250 ml immediately AFTER insulin administration.
<input type="checkbox"/> Insulin Regular for HumuLIN-R		unit	IV Push	NOW	hyperkalemia	Administer AFTER dextrose. Dose = 0.1 units/kg; Maximum 10 units/dose.

Additional Options:

Sodium Bicarbonate ineffective in the absence of metabolic acidosis.

Order	Dose	Unit	Route	Frequency	Indication	Comments
[-] MEDICATION - 3 item(s)						
<input type="checkbox"/> Albuterol Nebulizer	10	mg	inhalation	NOW	hyperkalemia	in 4 ml NS over 10 minutes
<input type="checkbox"/> Albuterol Nebulizer	20	mg	inhalation	NOW	hyperkalemia	in 4 ml NS over 10 minutes
<input type="checkbox"/> Sodium Bicarbonate Injection	50	mEq	IV Push	NOW	hyperkalemia	over 5 minutes

Follow Up Labs:

Q1H for 3 times starting in 1 hour from initial Glucose Point of Care

Order	Freq.	Additional Information
[-] FOLLOW UP LABS - 3 item(s)		
<input type="checkbox"/> Glucose Point of Care	Q1 hour	Start 1 hour from initial Glucose Point of Care; perform every 1 hour for 3 times.
<input type="checkbox"/> Glucose Point of Care	Q3 hours	Start 6 hour from initial Glucose Point of Care; perform every 3 hour for 3 times.
<input checked="" type="checkbox"/> Notify		for all Blood Glucose less than 70

Repeat 1 hour after initial Lab	Specify ___ hours from initial Lab	Repeat in 1 hours from initial ECG
<input checked="" type="checkbox"/> Potassium Level Whole Blood	<input type="checkbox"/> Potassium Level Whole Blood	<input type="checkbox"/> 12 Lead ECG

Follow Up Orders:

Order	Dose	Unit	Route	Frequency	Indication	Comments
[-] MEDICATION - 2 item(s)						
<input type="checkbox"/> Sodium Polystyrene Sulfonate	15	gram	PO	NOW	hyperkalemia	
<input type="checkbox"/> Sodium Polystyrene Sulfonate	30	gram	PO	NOW	hyperkalemia	