Admission Orders

The transition from the outpatient to the inpatient setting is important. It is critical to initiate care in the inpatient setting as quickly as possible. With predetermined order sets, it is possible for any provider regardless of personal experience or knowledge to generate a disease-specific order set designed by a specialist. Using SETMA's Admission Order sets, it is possible for excellent care to be started without delay.

The Order set can be accessed from:

AAA Home

SOUTH ASSOCIATE	RichmondPROL Home Phone Pat	Ztest () -	Sex M Work Phor stus	Age 35 DOB 05/23/1974]	
SETMA's LESS	Initiative I Pre	eventing Diabet	les I Preventin ode Tutorial ESI	na Hypertension I Medi M Codina Recommendations	cel Home Coordination Needs Attention!!	
Moster GP I Daily Progress	Nursing Home I Admission Orders	Ophthalmol I Discharg	oory Pediatrics e I Insulin Infusi	Physical Therapy Podiatry Rh ion Colorectal Surgery Pain Man	eumetology agement I	
Exercise	I <u>CHF Exercise</u> <u>Hydration</u> I N	I Diabetic i Addition I g	Exercise I Drug Buidelines I La	Unteractions I Smoking Cessation b Future I Lab Results I	a I	
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Patient's Pharmacy	Veight Pending Ref Status	t Management errals I Priority	I Renal Failure Referral	Diabetes Edu	Chart Hote	
Patient's Pharmacy	Veight Pending Ref Status Completed	Management Verrals I Priority Routine	I Renal Failure Referral Test	Diaketes Edu Referring Provider Abbas	Chart llote Return Info	
Patient's Pharmacy Phone () - Fax () -	Weight Pending Ref Status Completed	Management lerrals I Priority Routine	I Renal Failure Referral Test	Diebetes Edu Referring Provider Abbas	Chart llote Return Info Return Doc	
Patient's Pharmacy Phone () - Fax () -	Vieight Pending Ref Status Completed	Management errals I Priority Routine	I Renal Failure Referral Test	Diebetes Edu Referring Provider Abbas	Chart llote Return Info Return Doc Email	
Patient's Pharmacy Phone () - Fax () - Rx Sheet - Active	Vieight Pending Ref Status Completed	I Management errals I Priority Routine	I Renal Failure Referral Test	Diabetes Ecku Referring Provider Abbas	Chart Hote Return Info Return Doc Email Telephone	
Patient's Pharmacy Phone () - Fax () - Rx Sheet - Active Rx Sheet - New	Weight Pending Ref Status Completed	I Management I Priority Routine	I Renal Failure Referral Test	Diabetes Edu Referring Provider Abbas	Chart Hote Return Info Return Doc Email Telephone Records Request	
Patient's Pharmacy Phone () - Fax () - Rx Sheet - Active Rx Sheet - New Rx Sheet - Complete	Weight Pending Ref Status Completed	Management errals I Priorty Routine	I Renal Failure Referral Test	Diabetes Edu Referring Provider Abbas	Chart Hote Return Info Return Doc Email Telephone Records Request Transfer of Care Doc	
Patient's Pharmacy Phone () - Fax () - Rx Sheet - Active Rx Sheet - New Rx Sheet - New Rx Sheet - Complete Home Health	Veicht Pending Ref Status Completed	I Management errals I Priorty Routine	I Renal Failure Referral Test	Diabetes Edu	Chart Note Return Info Return Doc Email Telephone Records Request Transfer of Care Doc	
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Patient's Pharmacy Phone () - Fax () - Rx Sheet - Active Rx Sheet - New Rx Sheet - New Rx Sheet - Complete Home Health	VVeicht Pending Ref Status Completed	I Management errals I Priority Routine ferrals - Do n Priority	I Renal Failure Referal Test		Chart Hote Return Info Return Doc Email Telephone Records Request Transfer of Care Doc	

Main Tool Bar



- When the Template button is clicked you will be presented with the preference list.
- If the Acute Coronary Syndrome template is listed as one of your preferences, select it.
- If it is not one of your preferences, select the All radio button and scroll down until you find it in the list. Then you may select the template by either double-clicking on the name or single click on the name (so that it is highlighted in blue) and then click the OK button.

NOTE: For more on how to set up your preferences, Click Here

This template can also be accessed from the Master Nursing Home Template and the Master GP Template.

The Admission Orders consists of two templates:

- The Master Hospital Template
- The Hyperkalemia Template

The Master Hospital Admission Orders template has the following content:

At the top of the template the patient's name, date of birth, gender and age appear.

alty a Type Type Disease Specific Default Routine Orders Nursing Orders Report Admission to CBO Disease Specific Default Routine Orders Nursing Orders QAM Labs Respiratory Medications Critical Care Ventilator Hyperkalemia Sliding Scale	amitting Physician	Consults		or [Home
d Type Report Admission to CBO Disease Specific Defaut Routine Orders Nursing Orders Nursing Orders Respiratory Medications Critical Care Ventilator Hyperkalemia Siding Scale	cilty				Print Admit Orders
Disease Specific Image: Default Status Routine Orders Diagnostic Orders Nursing Orders QAM Labs Respiratory Medications Ortical Care Hyperkalemia Stiding Scale	d Type				Report Admission to CBO
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Nursing Orders qAM Labs Respiratory Medications Critical Care Ventilator Hyperkalemia Sliding Scale		_	Routine Orders	Diagnostic Orders	
Respiratory Medications Critical Care Ventilator Hyperkalemia Sliding Scale	mitting Diagnosis	—	Nursing Orders	qAM Labs	
Critical Care Ventilator Hyperkalemia Silding Scale		=	Respiratory	Medications	
Hyperkalemia Sliding Scale		—	Critical Care	Ventilator	
Sliding Scale		=	Hyper	kalemia	
		-	Slidin	g Scale	
	Γ				
	 Notify admitting physician 	or room number at 100301	log s		
V Noeny admitting physician of room number at 10030 noors					
Verify admitting physician of room number at 10030 noors					

In the left hand column, the following appear:

- Admitting Physician there is a pick list with the names of all of SETMA's providers, which allows the admitting physician's name to be easily added to the template.
- **Facility** the names of all of the local hospitals are listed on a pick list associated with this function.
- Bed Type 11 wards or bed types are listed on the pick list

- **Condition** 7 patient conditions are listed on the pick list
- Code Status 4 distinct codes are listed on the pick list
- Admitting Diagnosis the diagnoses from the patient's current assessment will automatically be placed here.

		se l	Home
siity			Print Admit Orders
l Type			Report Admission to CBO
	Disease	Constille	
ndition	Defaut	· specule	
de Status		(
	Routine Orders	Diagnostic Orders	
mitting Diagnosis	Nursing Orders	qAM Labs	
	Respiratory	Medications	
	Critical Care	Ventilator	
	Humer	kalemia	
	Sliding	Scale	
<u> </u>			
City Charter to the Elser	•		

Old Charts to Floor – a box is provided for adding this order to the patient's order set.

In the second column, there are four fields labeled:

- **Consults** a pick list for all local physicians whom SETMA commonly consults are listed here. If the name of the physician desired is not listed, it can be typed in, Last Name First, First name.
- For the reason for the consult is listed as Assessment 1-8 (these correspond to the eight spaces for Admitting Diagnosis). When Assessment 1 through 8 is chosen, the diagnosis associated with the Admitting Diagnosis box will be place in the "For" box. If the reason for the consult is a reason other than the 8 assessments, there is a list of symptoms on the pick list.

Silty Print Admit Orders d Type Print Admit Orders nation Disease Specific de Status Default de Status Routine Orders mitting Diagnosis Nursing Orders Respiratory Medications Critical Care Ventilator Hyperkalemia Silding Scale	mitting Physician	Consults t	or [Home
d Type Indition Disease Specific Default Routine Orders Nursing Orders AM Labs Respiratory Medications Critical Care Ventilator Hyperkalemia Silding Scale	sity			Print Admit Orders
Disease Specific Default de Status Routine Orders Diagnostic Orders Nursing Orders QAM Labs Respiratory Medications Critical Care Hyperkalemia Sliding Scale	d Type		1	Report Admission to CBO
	ndtion	Disease	9 Specific	
Routine Orders Diagnostic Orders amitting Diagnosis Nursing Orders qAM Labs Respiratory Medications Critical Care Ventilator Hyperkalemia Sliding Scale		Default		
Amitting Diagnosis Nursing Orders QAM Labs Respiratory Medications Critical Care Ventilator Hyperkalemia Sliding Scale	de Status	Routine Orders	Diagnostic Orders	
Respiratory Medications Critical Care Ventilator Hyperkalemia Sliding Scale	Imitting Diagnosis	Nursing Orders	qAM Labs	
Critical Care Ventilator Hyperkalemia Sliding Scale		Respiratory	Medications	
Hyperkalemia Sliding Scale		Critical Care	Ventilator	
Sliding Scale		Hyper	kalemia	
City Charter to the Floor		Slidin	3 Scale	
INTERNET TO THE ADDRESS TO THE ADDRESS	F automation Days			

Beneath the Consults boxes is a function entitled Disease Specific with a box beneath it.

When this box is accessed a pop-up appears which states:



When **OK** is clicked on the above pop-up, a pick list appears with 10 options:

Imitting Physician Consults	p	or [Hame
citty	i		nome
			Print Admit Orders
d Type		1	Report Admission to CBO
I	Disease	e Specific	
	Default		
ode Status		[marked]	
	Routine Orders	Diagnostic Orders	
initing Diagnosis	Nursing Orders	qAM Labs	
Default	Respiratory	Medications	
Asthma Exacerbation	Collins Cons.	Ventileter	
COPD Exacerbation	Critical Care	Ventilator	
Diabetic Ketoacidosis Heart Failure	Hyper	kalemia	
Pneumonia Post Surgical	Slidin	g Scale	
Seizures, Alcohol Withdrawal			
Seizures, New Unset			

When one of the options is chosen, the 8 buttons below will be automatically populated with options which are specific to the disease process which was selected. These options can be changed manually. Also, for the options to be accepted and/or for the information on each popup to be placed on the hospital order set, each pop-up must be opened.

The 8 order set options are:

Routine Orders

Hosp Routineord	×
Routine Orders Clear All	
Vital Measurements q4 hour PT Diet NPO Nutritional Risk OT Activity Bedrest Wound Care Accuchecks Image: Care Image: Care	
Supplemental Oxygen Pulse Ox on Current Oxygen Level Via nasal cannula L/min	
Titrate FiO2 to keep SpO2	
IV Therapy at cc/hr for hours Follow with Additives at cc/hr for hours KCI mEq/L at cc/hr for hours MgSO4 grams/L Regular human insulin units/L Sodium Bicarbonate amps/L Add thiamine 100 mg, folic acid 1mg, and MVI 1 ampule to first bag of IVF daily. Other	ırs
Comments OK Cancel	

Nursing Orders

Hosp Nurseorders
Nursing Orders
 Daily Weights Intake and Output Charting Wound Care Foley Catheter to Gravity Nasogastric tube to low intermittent suction Enemas Until Clear Check for Fecal Impaction Elevate Head of Bed 6 Inches Buck's Traction Out of Bed to Chair Stoma Care Notify Physician if: Change in Neurological Status SBP<90 or >160 Temp > 104F SpO2<88 Urine Output <30 cc/hr or 240/shift Any acute mental status deterioration
(check U2 saturation, ABG, and finger stick dividese while awaiting callback)
Comments
OK

Respiratory

Hosp Resp	×
Respir	atory Clear All
Nebulizer Treatment	
C Xopenex 0.63/3mL	
🔽 Xonepex 1.25/3mL	q4 hour
Atrovent 0.5mg	q4 hour
🔲 Pulmicort Respules 0	.5mg q12
Mucomyst 3cc 10% (q4 hours for 3 days
🗖 СРТ	
Incentive Spirometry	
Peak Flows	q24 hour
Comments	
ОК	Cancel

Critical Care

Hosp Criticalcare	×
Critical Care	Clear All
For any acute occurrence of any of the following:	
If SBP < 90 mm HG then give NS 500cc IV bolus over 15 minutes; if SBP mm Hg after bolus, begin Levophed IV (titrate to 70 <map<60) and="" call="" m<="" p=""></map<60)>	<90 1D.
If SBP >180 mm Hg, then give 0.1 mg clonodine PO or 0.625 mg enalapril × 1 q 4 hours PRN (may repeat × 1 in 1 hour if SBP remains >180 mm Hg SBP>180 mm Hg after second dose of PRN antihypertensive, call MD.	atl∨).lf
If heart rate<40 and patient is symptomatic (i.e. light headed/presyncopal/loss of consciousness), give 0.5 mg atropine IV ST (may repeat × 1) and call MD. If heart rate > 140 beats per minutes for more than 5 minutes, call MD.	AT
For VF or pulseless VT, defibrilate with 200 J, then 300 J, then 360 J as needed; call CODE BLUE and notify attending MD immediately.	
If RR<8 call MD. If RR>30 with respiratory distress, call MD.	
If urine output < 60 cc over 2 hours (not resolved by repositioning /flush Foley catheter) and SBP>110, give Lasix 40mg IVP. If no response in 30 minutes, call MD.	ing)
Comments	
OK Cancel	

Diagnostic Orders

Hosp Diagorders					×
		Diagnostic C	Orders		Clear All
Laboratory CBC BMP CMP Mg Phosphorus UA BNP VDRL Toxicology Scr CK w/MB Isoer q hrs Troponin q hrs	ABG Hgb A1C Amylase Lipase PT PTT D-Dimer CPK reen nzyme X	Cultures Blood x2 Urine Sputum/Tracheal Aspirate Wound Additional Cultures Lumbar Puncture EEG Cardiology 2D Echo w/Doppler Dobutamine Echo EKG	Radiology X-Ray	Ultrasound	Jicine
Comments	Other	. q hrs. x	ancel		

qAM Labs

Hosp Qamlabs	×
	Clear All
qAM Laboratory	
СВС	
E BMP	
CMP	
Mg	
CXR	
ABG	
Other	_
For 3 days	
Comments	
OK Cancel]

Medications

Hosp Meds			×
	Medications		Clear All
Antibiotics			
If afebrile for 24 hours, switch to PO antibiotics			
Other Medications Lovenox SQ 40mg q24 hours Pepcid 20mg IVPB q12 hours			
		PRN Medications]
Comments			
	OK Cancel		

sp Meds		
itibiotics	Medications	Clear All
If afebrile for 24 hours, switch to PO antibiotics		
		PRN Medications
sp Primeds	PPN Medication	Clear Al
sp Prnmeds	PRN Medication	S Clear Al
p Primeds ↓ Fever Citain blood cuttures x2 if not drawn in part 7	PRN Medication	S Clear AI
Prinmeds Fever Obtain blood cultures x2 if not drawn in past 7 CXR portable upright & spoken for gram stain 6	PRN Medication Anxiety 2 hours and cuture	S Clear All Xanax 0.25mg PO TID PRN Amblen Smg PO q HS PRN sleep
p Prinneds ✓ Fever Obtain blood cultures ×2 if not drawn in past 7 CXR portable upright & sputum for gram stain a if not done in past 48 hours Urinelysis and culture if not done is past 72 ho	PRN Medication Anxiety 2 hours and culture Sedation urs Nausea/Vomiting	S Clear Al Xanax 0.25mg PO TID PRN Ambien 5mg PO q HS PRN sleep Phenergran 12.5mg IVP q 4-8hours PRN
p Primeds ✓ Fever Obtain blood cultures x2 if not drawn in past 7 CXR portable upright 8 sputum for gram stain a if not done in past 48 hours Urinalysis and culture if not done is past 72 ho Acetaminophen 500mg q4 hours PRN if Tempo-Coolina blanket if temp-103.5° until temp-	PRN Medication PRN Medication Anxiety 2 hours and cuture P Nausea/Vombing 101F P Indigestion	S Clear Al Xanax: 0.25mg PO TID PRN Ambien 5mg PO q HS PRN sleep Phenergran 12.5mg IVP q 4-8hours PRN Maalox: 30cc PO q 8 hour PR
sp Primeds Fever Obtain blood cultures x2 if not drawn in past 7 CKR portable upright 8 spokum for gram stain 6 if not done in past 48 hours Urinelyisis and culture if not done is past 72 ho Acetaminophen 500mg q4 hours PRN if Temp> Cooling blanket if temp>103.5F until temp<103F	PRN Medication	S Clear Al Xanax 0.25mg PO TID PRN Amblen 5mg PO q HS PRN sleep Phenergran 12.5mg IVP q 4-Shours PRN Maalox 30cc PO q 8 hour PR Immodum 1 PO q 4-6 hours PRN

Ventilator

sp Ventilator				2
		Initial Ve	entilator Setup	All
Mode Rate Tidal Volume Pressure Support FIO2 ⁴ If patient ventilated in 3 to add pressure suppor volume of at least 6 cc. mode chosen and patie H2O pressure support	AC 12 650 0 100 SIMV mode, resp rt to result in spo Ag ideal body we ent has no sponte	Amin mL cm H2O % iratory therapist ntaneous tidal eight. If SIMV ineous add 10cm	Post Intubation Orders Titrate FIO2 to keep saturation >= 90 ✓ CXR portable STAT ✓ ABGs in 20 minutes ✓ Continuous pulse oximetry Sedation Morphine sulfate 2-10 mg IV q 1 hour PRN agitation If morphine allergy or MAP<60 mm Hg, fentanyl 25-5 mcg IVP q 1 hour PRN agitation ✓ Diprivan IV 5-10 cc initial bolus and titrate as need for agitation unrelieved by PRN narcotic use	500 or
PEEP	0	cm H2O	Comments	
Peak Flow	70	L/min		
		ОК	Cancel	

Beneath these 8 buttons are two additional options:

Hyperkalemia

Hosp Hyperkalemia		×
Hyperkalemia	Diagnos	stic Orders Help
24 hour Urine for Creatinine -or- Creatinine Clearance Using the Cockroft-Gault Equation Urine Spot K+ Help Urine Spot Na Help Urine K+ and Na Concentrations Urine Osmolality Help Serum Osmolarity Help Serum Cortisol Renin Renin Help Aldosterone Help		CBC CMP EKG
Thyroid Profile	eatment	
Select Severity of Hyperkalemia	C Mid C Moderate C Severe	5.3 - 6.0 mEq/L 6.0 - 6.5 mEq/L »6.5 mEq/L
Administer intravenous calcium gluconate 10% (4.65 mEq/ Regular Insulin 10 U IV and 50 mL D50W bolus NaHCO3 50 mEq slow IVP (If patinet has metabolic acidos Nebulized Albuterol 10 mg Kayexalate retention enema 50 G (in sorbitol). Irrigate with Kayexalate 60 mg (in sorbitol) PO Discontinue oral and parenteral potassium supplements Remove potassium-containing salt substitutes Change the diet to a low-potassium tube feed or a 2-g pot Stat consult to SETMA Nephrology for Emergency Dialysis Follow-Up Lab	10 mL) slow IVP sis and/or EKG ch tap water after e assium ad-lib diet	over 10 minutes to ameliorate cardiac toxicity, if present. nanges) enema to prevent necrosis if patient on PO diet

Sliding Scale

Hosp Slide Scale	×
SETMA Sliding Scale Insulin Protocol	
Use SETMA Sliding Scale Insulin Protocol	
Patient Sensitivity	
OK	

The Hyperkalemia Button launches the following template entitled Hyperkalemia Diangostic Orders:

At the to	p of the	template,	there are	15	laboratory	orders liste	d

Hosp Hyperkalemia	×
Hyperkalemia [Diagnostic Orders Help
24 hour Urine for Creatinine -or- Creatinine Clearance Using the Cockroft-Gault Equation Urine Spot K+ Urine Spot Na Help Urine K+ and Na Concentrations Urine Osmolality Help Serum Osmolality Serum LDH, CPK, Uric Acid, Phosphate, and ALT Serum Cortisol Renin Help Aldosterone Help Thyroid Profile	
Select Severity of Hyperkalemia	Mid 5.3 - 6.0 mEq/L Moderate 6.0 - 6.5 mEq/L Severe >6.5 mEq/L
Administer intravenous calcium gluconate 10% (4.65 mEq/10 m Regular Insulin 10 U IV and 50 mL D50W bolus NaHCO3 50 mEq slow IVP (1f patinet has metabolic acidosis a Nebulized Albuterol 10 mg Kayexalate retention enema 50 G (in sorbitol). Irrigate with tap Kayexalate 60 mg (in sorbitol) PO Discontinue oral and parenteral potassium supplements Remove potassium-containing salt substitutes Change the diet to a low-potassium tube feed or a 2-g potass Stat consult to SETMA Nephrology for Emergency Dialysis Follow-Up Lab Serum Potassium in 2 hours	nL) slow IVP over 10 minutes to ameliorate cardiac toxicity, if present. and/or EKG changes) o water after enema to prevent necrosis ium ad-lib diet if patient on PO diet
OK	Cancel

There are nine help buttons on this template; they are:

Hyperkalemia Diagnostic Orders

2
Hyperkalemia
respiratory failure) ¹ waves, prolonged PR interval, idioventricular rhythm and widened
Treatment (1) * Stop potassium! * Get and ECG t Manufacturia with ECC sharess is a proficed eccentration.
Treatment (2) First phase is emergency treatment to counteract the effects of hyperkalemia IV Calcium
* Temportaing treatment to drive the potassium into the cells * Glucose plus insulin * Beta2 agonist * NaHCO3
Treatment (3) * Therapy directed at actual removal of potassium from the body * Sodium polystyrene sulfonate (Kayexalate) * Dialysis
and correct the underlying cause!

Creatine Clearance Using the Cockroft-Gault Equation

Creat Clearance	×
Estimated Creatinine Clearance	
Complete the following four fields and click Calculate.	
vVeight Ibs	
Sex M (must be uppercase)	
Age 35	
Serum Creatinine	
Calculate >>> mL/min	
OK Cancel	

Urine Spot K +

Line Potassium	
Offile Potassium	
This test is usually performed to detect or confirm the presence of conditions that affect body fluids (for example, dehydration, vomiting, diarrhea) or disorders of the kidneys or adrenal glands, which are the source of the aldosterone.	
The serum (blood) and urine potassium depend on many factors.	
 Aldosterone is a steroid hormone that plays a major role in regulating potassium levels within the body. Aldosterone increases the loss of potassium in the kidneys. 	
* Potassium is also affected by acid/base balance because potassium exchanges with hydrogen, to some extent, across cell membranes.	
Normal Values	
* Spot Urine normal values 40-60 mEq.	
* The usual range for a person on a regular diet is 25 to 120 mEq/L/day.	
* However, lower or higher urinary levels may occur depending on dietary potassium intake and the relative amount of potassium in the body.	
Greater-than-normal urine potassium levels may indicate	
* Acute tubular necrosis	
* Cushing's syndrome (rare)	
* Diabetic acidosis and other forms of metabolic acidosis	
* Hyperaldosteronism (very rare)	
* Eating disorders (anorexia, bulimia) and vomiting	
* Low magnesium levels	
Additional conditions under which the test may be performed	
* Medullary cystic disease	

Urine Spot Na+

Info UrineNa

Urine Sodium

The test is often used to determine hydration status and the kidney's ability to conserve or excrete sodium. This test may also be performed to indirectly indicate the function of the adrenal cortex, or to detect or monitor conditions that result in abnormal urine sodium levels.

Aldosterone, a hormone produced by the adrenal gland, plays a major role in regulating sodium levels within the body and urine. Specifically, aldosterone increases the reabsorption of sodium in the kidneys at the expense of potassium and hydrogen loss.

Urine Sodium

Reabsorption of sodium in turn enhances retention of water in body tissues and the blood stream. It is by this means that aldosterone helps maintain plasma volume and blood pressure. Dehydration and conditions that decrease kidney blood flow stimulate aldosterone production.

Normal values are generally

- *15 to 250 mEq/L/day, depending on hydration status and daily intake of dietary sodium.
- * Spot urine sodium of less than 20 generally means dehydration, hypotension or other conditions which have stimulated aldosterone production.

Greater-than-normal urine sodium levels may indicate

- * Adrenocortical insufficiency
- * Steroid use
- * Excessive salt intake

Lower-than-normal urine sodium levels may indicate

- * Aldosteronism
- * Congestive heart failure
- * Diarrhea and dehydration states
- * Renal failure

Additional conditions under which the test may be performed

- * Acute tubular necrosis
- * Hepatorenal syndrome
- * Medullary cystic disease
- * Glomerulonephritis
- * Prerenal azotemia



X

Urine Osmolality



Serum Osmolarity

Info Serumosmolar	<u>></u>	<
Serum Os	smolarity	
Osmolality measures the concentration of particles in solu decreases with overhydration.	ution. Osmolality increases with dehydration and	
In normal people, increased osmolality in the blood will sti will result in increased water reabsorption, more concent	mulate secretion of ADH (antidiuretic hormone). This trated urine, and less concentrated plasma.	
A low serum osmolality will suppress the release of ADH concentrated plasma.	l, resulting in decreased water reabsorption and more	
Normal values range from 280 to 303 mOsm/kg. (m	nilliosmoles per kilogram)	
Greater than normal levels may indicate * Dehydration * Diabetes insipidus * Head trauma resulting in deficient ADH secretion * Hyperglycemia * Hypernatremia * Consumption of alcohol * Consumption of methanol	 * Consumption of ethylene glycol * Renal tubular necrosis * Severe pyelonephritis * Shock * Stroke resulting in deficient ADH secretion * Uremia 	
Lower than normal levels may indicate * Excess fluid intake * Hyponatremia * Overhydration * Paraneoplastic syndromes associated with lung ca * Syndrome of inappropriate ADH secretion	ancer	
Additional conditions under which the test may be * Complicated UTI (pyelonephritis) * Diabetic hyperglycemic hyperosmolar coma * Hepatorenal syndrome * Interstitial nephritis	Cancel	

Renin

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ume. imulate dary fluids.
ed



Aldosterone

o Aldosterone	×
Aldosterone	
This test is performed to investigate hard to control blood pressure, orthostatic hypotension and certain fluid and electrolyte disorders.	
Aldosterone is a hormone released by the adrenal glands. It is part of the complex mechanism used by the body to regulate blood pressure. Aldosterone is the main sodium retaining hormone from the adrenal gland. It increases the reabsorption of sodium and water along with the excretion of potassium in the distal tubules of the kidneys. This action raises blood pressure.	
Frequently, blood aldosterone levels are combined with other blood tests (plasma renin activity) or provocative tests (captopril test, intravenous saline infusion test or ACTH infusion test) in order to diagnosis over or under production of the hormone.	
Normal Values * supine: 2 to 16 ng/dl * upright: 5 to 41 ng/dl	
Greater-than-normal levels of aldosterone may indicate * primary hyperaldosteronism (rare) * Bartter syndrome (extremely rare) * Secondary hyperaldosteronism from cardiac or kidney disease * Cushing's syndrome (rare) * Very low sodium diet * Pregnancy	
Lower-than-normal levels of aldosterone may indicate * Addison's disease (rare) * Very high sodium diet * Congenital adrenal hyperplasia * Hyporeninemic hypoaldosteronism	
OK Cancel	

At the bottom of the template, there are:

Options for selecting the severity of hyperkalemia; the options are

Mild	5.3—6.0 meq/L
Moderate	6.1 - 6.5 meq/L
Severity	>6.5 meq/L

When the radial button is checked next to one of these options, the 11 options below are automatically populated according to a treatment algorithm built into the system.

Hosp Hyperkalemia		×
Hyperkalemia	Diagnos	
24 hour Urine for Creatinine -or- Creatinine Clearance Using the Cockroft-Gault Equation Urine Spot K+ Help Urine Spot Na Help Urine K+ and Na Concentrations Urine Osmolality Help Serum Osmolarity Help Serum Cortisol Renin Renin Help Thwoid Brodie Help	Help	CBC CMP EKG
	eatment	
Select Severity of Hyperkalemia	C Mild C Moderate C Severe	5.3 - 6.0 mEq/L 6.0 - 6.5 mEq/L ≽6.5 mEq/L
 Administer intravenous calcium gluconate 10% (4.65 mEq/ Regular Insulin 10 U IV and 50 mL D50W bolus NaHCO3 50 mEq slow IVP (If patinet has metabolic acidos Nebulized Albuterol 10 mg Kayexalate retention enema 50 G (in sorbitol). Irrigate with Kayexalate 60 mg (in sorbitol) PO Discontinue oral and parenteral potassium supplements Remove potassium-containing salt substitutes Change the diet to a low-potassium tube feed or a 2-g potal Stat consult to SETMA Nephrology for Emergency Dialysis Follow-Up Lab Serum Potassium in 2 hours 	10 mL) slow IVP (sis and/or EKG ch tap water after e assium ad-lib diet	over 10 minutes to ameliorate cardiac toxicity, if present. anges) enema to prevent necrosis if patient on PO diet
ок	Cance	1

These treatment orders, along with the diagnostic orders will print on the hospital order set.

Beneath the Hyperkalemia button is a button entitled Sliding Scale.

When depressed this button launches a pop-up entitled SETMA Sliding Scale Insulin Protocol.

Hosp Slide Scale	×
SETMA Sliding Scale Insulin Protocol	
Use SETMA Sliding Scale Insulin Protocol Patient Sensitivity	
OK Cancel	

The window on this pop-up allows the provider to select the degree of sensitivity to insulin which is unique to this patient. The options are Average, Resistance, Sensitive, Very Sensitive. Depending upon which option is chosen a unique insulin sliding scale will be placed on the order set. The default position is "average."

Hosp Slide Scale	×
SETMA Sliding Scale Insulin	Protocol
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	Average Resistant Sensitive Very Sensitive
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Once all the information has been completed, the button Print Admit Orders should be depressed. At that point a pop-up appears which states:



All of the medications on the patient's current visit will be printed on the hospital order set. If any of them should not be continued or if any of them are incorrect, they should be inactivated or corrected before the hospital order set is printed.

Once the order set is printed, each page must be signed or initialed and the last page signed by the physician.