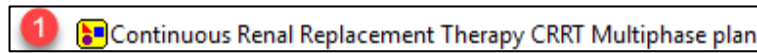


# Clinical Process for Continuous Renal Replacement Therapy (CRRT) Multiphase PowerPlan

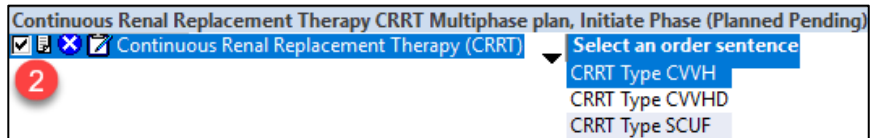
## Ordering Process

The provider will order the CRRT PowerPlan, as outlined below, and will communicate orders to nursing.

1. Add new order for CRRT

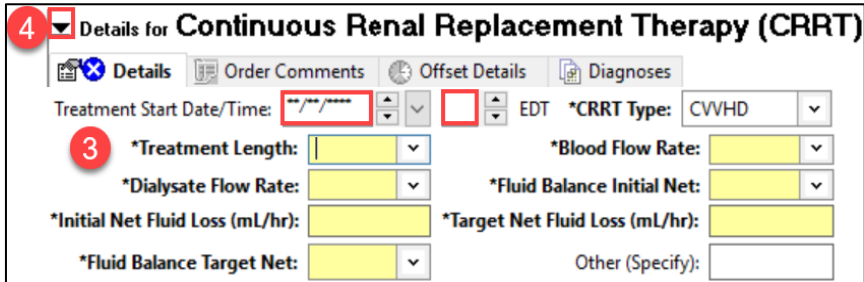


2. Select CRRT Type

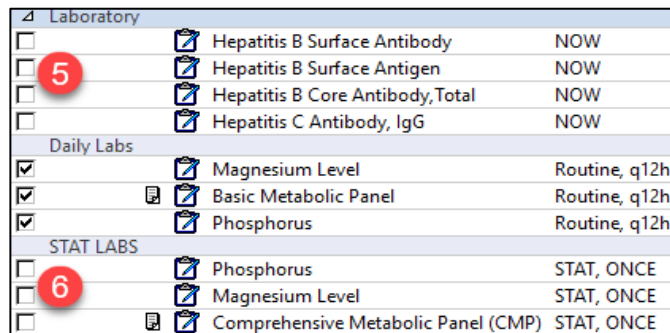


3. Enter Initiate Phase Order Details  
Complete all fields

4. Click down caret to return to order entry



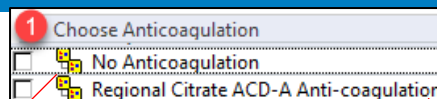
5. Select Hepatitis labs if applicable



6. Select STAT labs if applicable

## Anticoagulation Orders

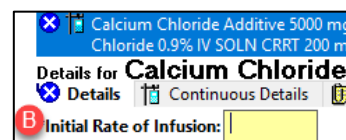
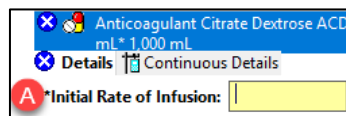
1. Choose Anticoagulation Subphase



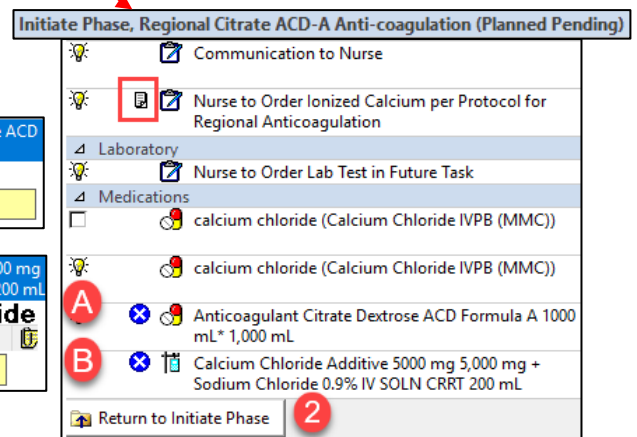
**Initiate Phase, No Anticoagulation (Planned Pending)**  
Sodium Chloride 0.9% 1000 mL 1,000 mL  
1,000 mL, IV, Start 3/30/2021 14:33 EDT, Flush 100 mL every hour  
for CRRT, Routine, Stop 4/29/2021 14:32 EDT

If **Regional Citrate Anticoagulation** chosen:

- Click to add Infusion Rates for
- A. Anticoagulant Citrate Dextrose rate
- B. Calcium Chloride Additive rate



2. Click Return to Initiate Phase



# Clinical Process for Continuous Renal Replacement Therapy (CRRT) Multiphase PowerPlan

Cerner PowerChart EDUCATION

3. **Choose** Continuous Infusion

4. **Choose** Dialysis Cath Dwell

5. **Click** Return to Initiate Phase

6. **Click** Orders for Signature

7. **Click** Sign

## Modifying CRRT Orders

1. **Right Click** on the CRRT order

2. **Select** Modify

3. **Enter** changes.

4. **Click** Orders for Signature

5. **Click** Sign

**Details for Continuous Renal Replacement Therapy (CRRT)**

\*Blood Flow Rate: 200 mL/hr (Standard)      \*CRRT Type: CVVHD      \*Treatment Length: Continuous 24 hours

\*Initial Net Fluid Loss (mL/hr): 50      \*Dialysate Flow Rate: 2L/hr (Standard)      \*Fluid Balance Initial Net: Negative

Other (Specify): |      \*Fluid Balance Target Net: Negative      \*Target Net Fluid Loss (mL/hr): 150

4 Orders For Signature      5 Sign

## Modifying Infusion Rates

1. **Left click** on the current Anticoagulation subphase to open the order

2. **Right click** on the solution order

3. **Select** Modify

4. **Click** Details tab

5. **Enter** new infusion rate

6. **Click** the down caret to Return to orders

**Details for Anticoagulant Citrate Dextrose**

4 Details      5 Initial Rate of Infusion: 300

7. **Click** Return to Initiate Phase

8. **Click** Orders for Signature

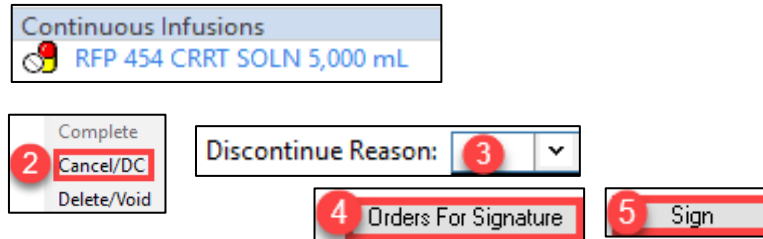
9. **Click** Sign

## Changing Solution or Medication Orders

The **previously ordered solution or medication orders must be discontinued** before entering “Change Phase” orders.

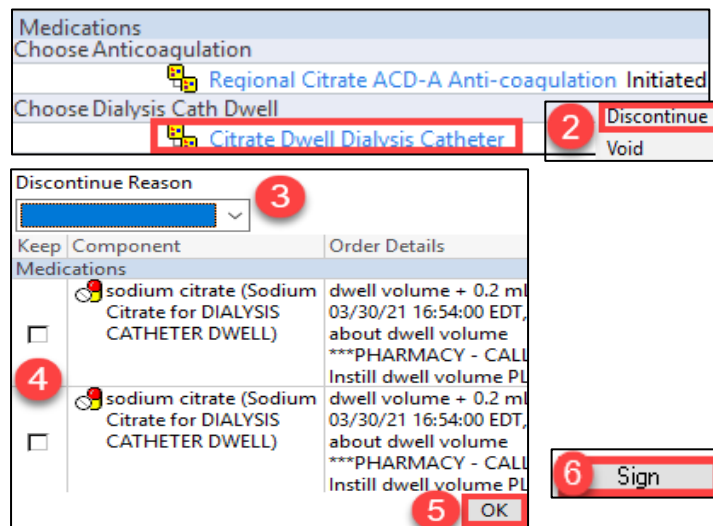
To Discontinue a Solution:

1. **Right click** on the order
2. **Select** Cancel/DC
3. **Select** Discontinue Reason
4. **Select** Orders for Signature
5. **Click** Sign



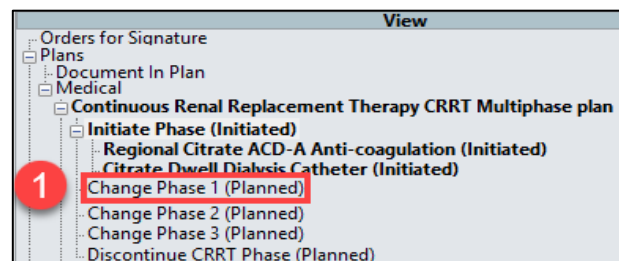
To Discontinue Medication Orders:

1. **Right click** on the order
2. **Select** Discontinue
3. **Select** Discontinue Reason
4. **Review** the orders being Discontinued.
  - a. Click the Keep column box to retain any of the orders
5. **Click** OK
6. **Click** Sign



To Initiate Change Phase:

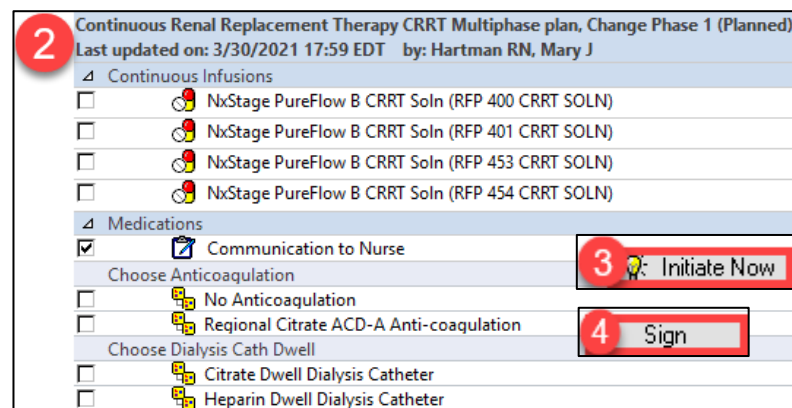
1. **Click** Change Phase 1 from Orders View



2. **Select** the new orders
3. **Click** Initiate Now
4. **Click** Sign

The PowerPlan will now have the new orders activated.

**Note:** A new Change Phase will need to be initiated for additional changes to solutions or medications.



Orders in PowerPlan

Note: CRRT Process Flow Reference Text

Continuous Renal Replacement Therapy CRRT Multiphase plan, Initiate Phase (Initiated)	
Non Categorized	
<input checked="" type="checkbox"/> Continuous Renal Replacement Therapy (CRRT)	3/30/2021 8:57 EDT, CRRT Type CVVHD, Treatment Length Conti 5-, Fluid Balance Target Net Negative Target Net Fluid Loss 150
<input checked="" type="checkbox"/> Pharmacy Following (RX use Only)	CRRT, 3/30/2021 8:57 EDT, Daily
<input checked="" type="checkbox"/> Consent for	3/30/2021 8:57 EDT, Obtain informed consent for Continuous Re
<input checked="" type="checkbox"/> Misc Task	3/30/2021 8:57 EDT, ONCE, 3/30/2021 8:57 EDT, Obtain informed
Patient Care	
<input checked="" type="checkbox"/> Communication to Nurse	3/30/2021 8:57 EDT, If used, Calcium Chloride and Sodium Citrate
<input checked="" type="checkbox"/> Communication to Nurse	3/30/2021 8:57 EDT, Do not Start Calcium Chloride or Sodium Citra treatment is stopped or discontinued.
<input checked="" type="checkbox"/> Call (specify)	3/30/2021 8:57 EDT, Call Nephrologist if potassium level results are
<input checked="" type="checkbox"/> Communication to Nurse	3/30/2021 8:57 EDT, Dwell orders per protocol
<input checked="" type="checkbox"/> Call (specify)	3/30/2021 8:57 EDT, Notify Nephrologist for a: Increase in patient's Notify Nephrologist for a: Increase in patient's bicarbonate by mo
<input checked="" type="checkbox"/> Communication to Nurse	3/30/2021 8:57 EDT, if at any time the CRRT treatment is interrupte
<input checked="" type="checkbox"/> Intake and Output	3/30/2021 8:57 EDT, q1hr, Strict Hourly
<input checked="" type="checkbox"/> Dialysis Perm Cath Dressing Change	3/30/2021 8:57 EDT, Weekly
<input checked="" type="checkbox"/> Dialysis Perm Cath Dressing Change	3/30/2021 8:57 EDT, PRN
<input checked="" type="checkbox"/> Chlorhexidine Bath - Chin to Toe Task (Chlorhexidine	3/30/2021 8:57 EDT Daily Give chlorhexidine bath with wipes, con
<input checked="" type="checkbox"/> Bath - Chin to Toe - Subsequent)	
<input checked="" type="checkbox"/> CRRT Process Flow Reference Text	
Vital Signs	
<input checked="" type="checkbox"/> Weights	03/30/21 8:57:00 EDT, Daily

View of orders

Review Reference Text

PAL Tasks, Orders, and Notifications

PAL tasks, orders, and notifications will fire when the Continuous Renal Replacement Therapy Multiphase PowerPlan is ordered, and with any order changes.

1. View new orders and notifications from the PAL

The screenshot shows a blue notification bar with a red '1' and the text 'PAL'. Below it are tabs for 'Orders', 'ADT', 'Med', 'LAB', 'PRN/Contir', and 'Current'. A pop-up window titled 'Orders' is open, showing an 'Order Description' for 'Anticoagulant Citrate Dextrose ACD Formula'.

2. Review Orders from the Orders tab of the chart

The screenshot shows the 'Orders' tab selected in the chart. Below it is a table titled 'Orders For Nurse Review' with the following data:

Order	Anticoagulant Citrate Dextrose ACD Formula A	15 mL/hr, TITR Anticoagulation rounded to the 150
<input type="checkbox"/>	1000 mL* 1,000	

3. Complete PAL tasks

The screenshot shows a 'Tasks' window for patient 'ZZZPHS, TEST PATIENT' (MRN: M0839370). The 'Task Type Filter' is set to '< All Tasks >'. The task list includes:

Date and Time	Priority	Task	Chart Status
3/31/2021 10:46 EDT		Nursing - Begin Pre-Op Chec..	
3/31/2021 10:45 EDT		Obtain Consent Task	Chart Done...
3/31/2021 10:45 EDT		Consent for Misc Task	Chart Not Done.