

Oncology – Adverse Reaction Management

This document details how Adverse Reactions are managed within the Oncology setting.

- Place Verbal/Phone Medication orders
- Administer Medications within the eMAR
- Nursing Documentation in Interactive View and I&O (or IView)

Nursing Assessment and Adverse Reaction Management

A patient who is receiving chemotherapy complains of symptoms related to a potential adverse reaction (hypersensitive, flare reaction etc).

Before calling the physician, perform any immediate Nursing actions such as stopping the infusion, assessing the IV site, monitoring vital signs, and/or administered prepared drugs on the hypersensitivity tray.

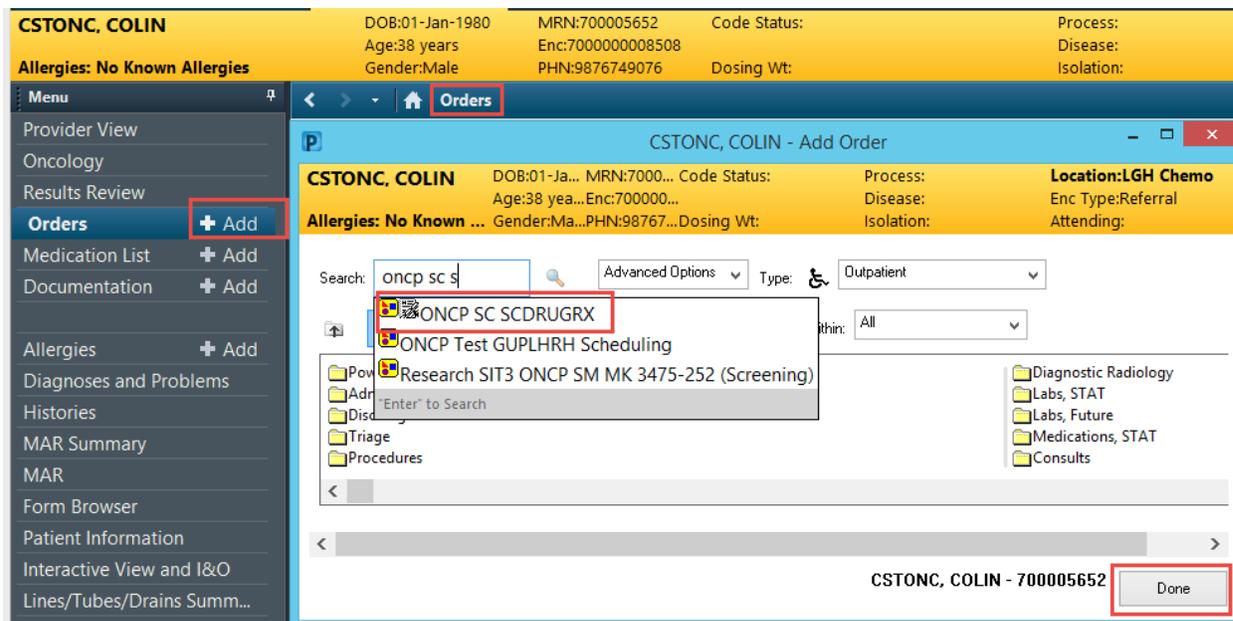
You may choose to document this assessment in IView in real time depending on the patients' symptoms, or reserve charting for a more appropriate time.

Place and Activate Verbal/Phone Medication Orders

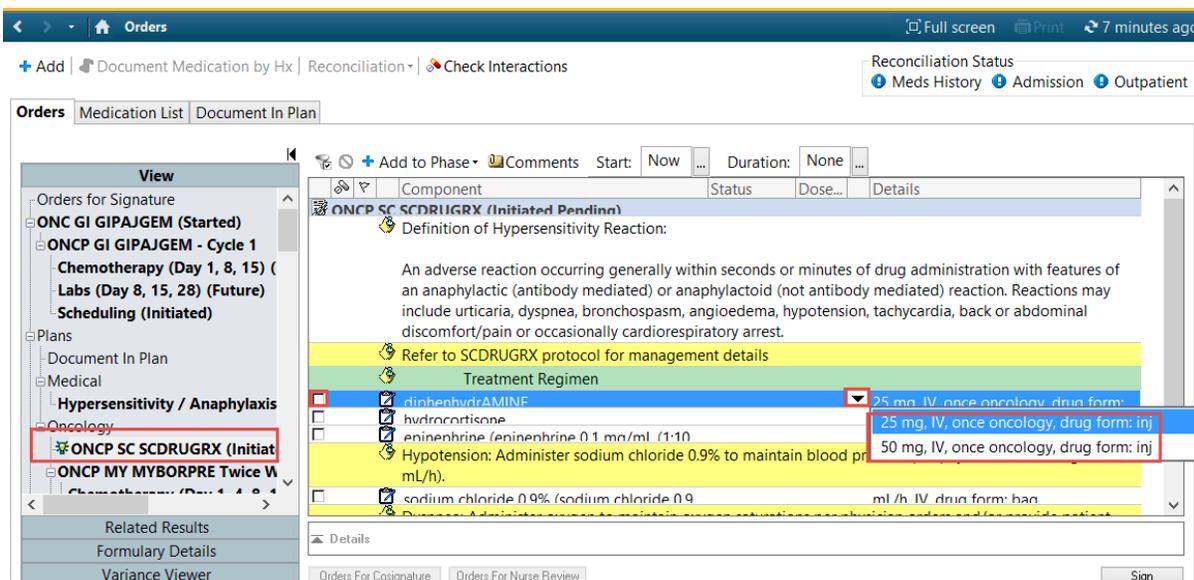
Contact a physician to advise them of the patients' reaction and request an assessment if clinically indicated.

For the Oncology plans identified as a high risk and potential of a hypersensitivity reaction a phase entitled  **ONCP SC SCDRUGX Powerplan** will be available. If this phase is not built in the plan you may need to manually add the **Hypersensitivity/Anaphylactic Treatment** Module.

1. Click on the icon in the **Orders** tab from the **Menu**.
2. Type = *ONCP Sc* in the search field to begin searching for the Powerplan.
3. Select the Powerplan the **ONCP SC SCDRUGX**.
4. Click **Done**. The PowerPlan window opens.



5. Review the PowerPlan and locate the diphenhydramine order.



6. Add any excluded orders needed by clicking once in the blank box next to the order.
7. Click **diphenhydramine** checkbox.

REMEMBER: The drop down arrow ▼ next to the drug indicates the multiple available dose forms.

8. Choose the most **appropriate dose** determined by physician and clinical scenario.

+ Add to Phase Check Alerts Comments Start: ... Duration: ...

<input type="checkbox"/>	Component	Status	Dose...	Details
<input type="checkbox"/>	Refer to SCDRUGRX protocol for management details			
<input type="checkbox"/>	Treatment Regimen			
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> diphenhydrAMINE		▼ 25 mg IV once oncology drug f	
<input type="checkbox"/>	<input checked="" type="checkbox"/> hydrocortisone		100 mg IV once oncology drug fo	
<input type="checkbox"/>	<input checked="" type="checkbox"/> epinephrine (epinephrine 0.1 mg/ml /1:10		0.5 mg IM q5min PRN other (see	

▼ Details for **diphenhydrAMINE**

Details Order Comments Offset Details

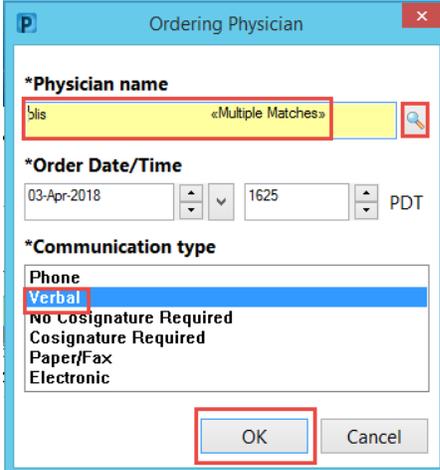
*Dose:

*Dose Unit: ▼

*Route of Administration: ▼

*Frequency: ▼

9. Enter the authorizing ***Physician name** into the yellow starred mandatory field when ordering this plan as a Nurse.
10. Click on the search icon  to find the physician you spoke with.
11. Click **OK**.



The screenshot shows a dialog box titled "Ordering Physician". It contains three main sections:
1. ***Physician name**: A text input field containing "blis" and a search icon. The field is highlighted in yellow.
2. ***Order Date/Time**: Two date/time pickers. The first shows "03-Apr-2018" and the second shows "1625" with a "PDT" label.
3. ***Communication type**: A dropdown menu with "Verbal" selected. Other options include "No Cosignature Required", "Cosignature Required", "Paper/Fax", and "Electronic".
At the bottom, there are "OK" and "Cancel" buttons. The "OK" button is highlighted with a red box.

12. Continue reviewing the plan and add any further orders as needed.

13. Click the downward arrow  to collapse the order details to view the list of orders.

 Details for **diphenhydrAMINE**

 + Add to Phase  Check Alerts  Comments Start: ... Duration: ...

		Component	Status	Dose...	Details
		Refer to SCDRUGRX protocol for management details			
		Treatment Regimen			
<input checked="" type="checkbox"/>		diphenhydrAMINE		25 mg	IV once oncology drug f
<input type="checkbox"/>		hydrocortisone		100 mg	IV once oncology drug fo
<input type="checkbox"/>		epinephrine (epinephrine 0.1 mg/ml /1:10)		0.5 mg	IM q5min PRN other (see

 Details for **diphenhydrAMINE**

 Details  Order Comments  Offset Details

*Dose:
 *Dose Unit: 
 *Route of Administration: 
 *Frequency: 



NOTE: The difference between Inpatient and Outpatient PowerPlans, Outpatient PowerPlans do not have a lightbulb Initiate button. However, you do see the status the View Section.

 Oncology
 **ONCP SC SCDRUGRX (Initiated Pending)**

14. Click **Orders for Signature** Orders For Signature.

The screenshot shows the 'Orders' section of a clinical system. On the left, a navigation pane shows 'Oncology' expanded with 'ONCP SC SCDRUGRX (Initiated Pending)' highlighted. The main area displays a list of medication orders. The first row, 'diphenhydrAMINE', is selected and highlighted in blue. Below the list, a 'Details for diphenhydrAMINE' section is visible. At the bottom right, a button labeled 'Orders For Signature' is highlighted with a red box.

15. Click **Sign** Sign. The PowerPlan is activated.

The screenshot shows the details for a medication order. The table below lists the order information:

Order Name	Status	Start	Details
IGH Rehab OP. Enc:7000000017433			
Medications			
diphenhydrAMINE	Order	04-Apr-2018 0	25 mg IV once oncolo

At the bottom of the screen, a 'Sign' button is highlighted with a red box.

16. Refresh details.

The screenshot shows the 'View' pane of the interface. The 'ONCP SC SCDRUGRX (Initiated)' option is highlighted with a red box.



NOTE: When the order has not yet been verified by the pharmacist and ordering physician as we just placed this order. If the patient has an urgent need to receive the drug now and you cannot wait for the Pharmacist to verify the medication you can proceed.

Component	Status	Dose ...	Details
ONCP SC SCDRUGRX (Initiated) Last updated on: 22-Mar-2018 12:54 PDT by: TestUser, OncologyAmbulatory-Nurse			
Definition of Hypersensitivity Reaction: An adverse reaction occurring generally within seconds or minutes of drug administration with features of an anaphylactic (antibody mediated) reaction such as tachycardia, back or abdominal discomfort/pain or occasionally cardiorespiratory arrest.			
Treatment Regimen 1. General Management: It is recommended that patients are assessed by a physician if having a reaction requiring the administration of antihistamines and corticosteroids. MODERATE REACTION: (e.g., moderate rash, flushing, pruritis, mild dyspnea, chest discomfort, abdominal discomfort, lower back pain)			
Management Procedure: - Stop infusion. - Give diphenhydramine 25-50 mg IV push and/or hydrocortisone sodium succinate 100 mg IV push per physician orders. - After recovery of symptoms, resume infusion at a rate per protocol. If no direction in protocol consider resuming at 25% of previous rate. - Depending on severity of reaction, may increase to full rate at physician's discretion. - Premedicate for all future cycles (see Prophylaxis section). Initiate infusion at slower rate (consider 50% of full rate) per physician orders.			
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
diphenhydrAMINE	Ordered	50 mg, IV direct, once oncology, drug form: inj,	to be used if reaction escalates (e.g., one or more of respiratory distress requiring treatment)
Notifications: This order is yet to be verified by a pharmacist. This order is yet to be cosigned by the ordering physician.			
Note: Administer a maximum of three doses of epinephrine - Give diphenhydramine 50 mg IV push and/or hydrocortisone sodium succinate 100 mg IV push per physician orders. - Oxygen if needed for dyspnea (see below). - Normal saline if needed for hypotension (see below). - Bronchodilators if indicated (see below). - Either permanently discontinue the drug that caused the reaction or attempt to retreat on another occasion after premedication (see below). - Initiate Emergency Response System appropriate for facility if patient condition warrant.			
*Note: Epinephrine 1:1,000 = 1 mg/mL and Epinephrine 1:10,000 = 1 mg/10 mL			
2. Hypotension: Administer normal saline to maintain blood pressure per physician orders (e.g., 300 mL/h)			

Administering Medications within the eMAR

1. Review the medication in the MAR on the Menu.

CSTONC, OWEN
DOB:01-Jan-1980 MRN:700005752 Code Status:
Process:

Age:38 years Enc:740000000999
Disease:

Allergies: No Known Medication All... Gender:Male PHN:9876747058 Dosing Wt:81 kg
Isolation:

Menu

- Ambulatory Summary
- Oncology
- Orders + Add
- Single Patient Task List
- MAR
- MAR Summary
- Interactive View and I&O
- Results Review
- Documentation + Add

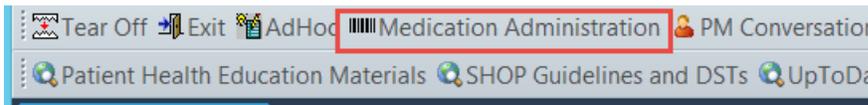
MAR

One Time Doses - Active and I
day, 02-April-2018 16:51 PDT

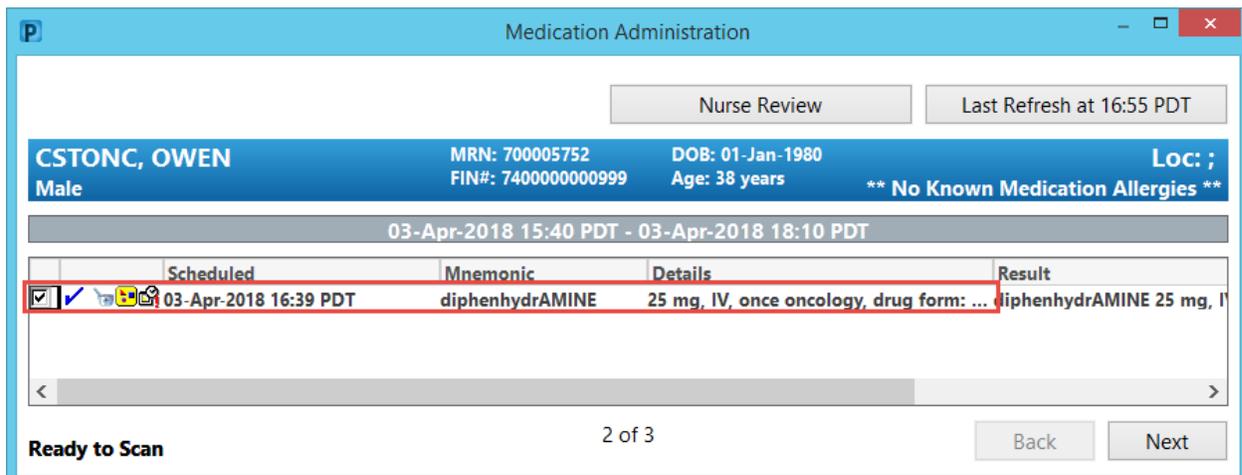
Show All Rate Change ...

Time View	Medications	03-Apr-2018 16:39 PDT
<input checked="" type="checkbox"/> Scheduled <input checked="" type="checkbox"/> Unscheduled <input checked="" type="checkbox"/> PRN	Scheduled diphenhydrAMINE 25 mg, IV, once oncology, drug form: inj, start 03-Apr-2018 16:39 PDT, stop: 03-Apr-2018 16:39 PDT diphenhydrAMINE	25 mg Not given within 7 days.

- Click on the **Medication Administration Wizard (MAW)** icon on the toolbar.

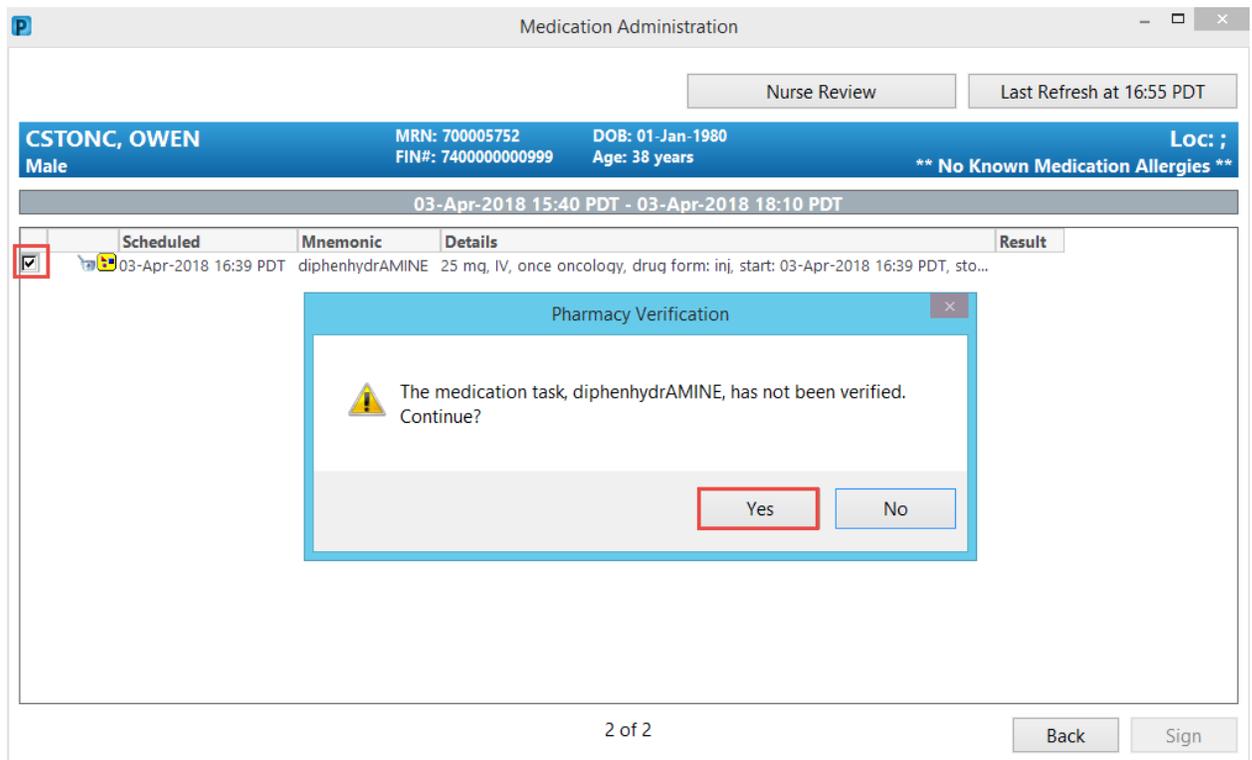


- Scan the **patient's wristband**.
- Scan the **medication barcode** that you are administering.
- Click **Next** to review the administration details window.



REMEMBER: The system will recognize the medication and will select the orders as within the MAW.

- 6. Click **Yes** to continue if the Pharmacy has not yet verified this medication and it is clinically indicated to administer it before verification.



The screenshot shows a 'Medication Administration' window for patient **CSTONC, OWEN** (Male, MRN: 700005752, DOB: 01-Jan-1980, Age: 38 years). The patient has no known medication allergies. A medication task for **diphenhydramine** (25 mg, IV) is scheduled for 03-Apr-2018 at 16:39 PDT. A 'Pharmacy Verification' dialog box is displayed, asking 'The medication task, diphenhydramine, has not been verified. Continue?' with 'Yes' and 'No' buttons. The 'Yes' button is highlighted with a red box. The 'Scheduled' column in the table below is also highlighted with a red box.

	Scheduled	Mnemonic	Details	Result
<input checked="" type="checkbox"/>	03-Apr-2018 16:39 PDT	diphenhydramine	25 mg, IV, once oncology, drug form: inj, start: 03-Apr-2018 16:39 PDT, sto...	

- Verify Medication administration details. You are able to correctly reflect the **administration time** here if you administered the drug prior to placing an order.

Review the dose and volume to what is actually being administered.

- Click **OK**.

Charting for: CSTONC, COLIN

diphenhydrAMINE
25 mg, IV, once, PRN itching or rash, drug form: inj, start: 08-Mar-2018 11:54 PST
BENADRYL EQUIV for infusion/chemotherapy hypersensitivity reaction

*Performed date / time : 08-Mar-2018 1215 PST

*Performed by : TestUser, OncologyAmbulatory-Nurse

Witnessed by :

Medication not given within the last 5 days.

*diphenhydrAMINE: 25 mg Volume: 0.5 ml

Diluent : <none> ml

*Route : IV Site :

Reason : itching or rash

Total Volume : 0.5 Infused Over : 0 minute

08-Mar-2018 1100 PST	08-Mar-2018 1200 PST	08-Mar-2018 1300 PST	08-Mar-2018 1400 PST	08-Mar-2018 1500 PST	08-Mar-2018 1600 PST
	0.5				

Not Given

Reason :

Comment...

OK Cancel

9. The eMAR now reflects the **correct** time the medication was given. Refresh your screen.

	Medications	08-Mar-2018 12:15 PST	08-Mar-2018 11:55 PST
Time View <input checked="" type="checkbox"/> Scheduled <input checked="" type="checkbox"/> Unscheduled <input checked="" type="checkbox"/> PRN <input checked="" type="checkbox"/> Continuous Infusions <input checked="" type="checkbox"/> Future <input checked="" type="checkbox"/> Discontinued Scheduled <input checked="" type="checkbox"/> Discontinued Unscheduled <input checked="" type="checkbox"/> Discontinued PRN <input checked="" type="checkbox"/> Discontinued Continuous Infus Therapeutic Class View	PRN acetaminophen 650 mg, PO, once, PRN pain-mild or fever, drug form: tab, start: 08-Mar-2018 11:54 P.. For infusion/chemotherapy hy..		650 mg Not given within 7 days.
	acetaminophen		
	Temperature Axillary		
	Temperature Oral		
	Numeric Pain Score (0-10)		
	PRN diphenhydrAMINE 25 mg, PO, once, PRN itching or rash, drug form: cap, start: 08-Mar-2018 11:54 PST BENADRYL EQUIV for infusion..		25 mg Not given within 7 days.
	diphenhydrAMINE		
	PRN diphenhydrAMINE 25 mg, IV, once, PRN itching or rash, drug form: inj, start: 08-Mar-2018 11:54 PST BENADRYL EQUIV for infusion...	<input checked="" type="checkbox"/> Complete	
	diphenhydrAMINE		
	PRN epinephrine (epinephrine 1 m.. 0.5 mg, IM, once, PRN anaphylaxis, drug form: inj, start: 08-Mar-2018 11:54 PST epinephrine		0.5 mg Not given within 7 days.
epinephrine			
PRN hydrocortisone 100 mg, IV, once, PRN anaphylaxis, drug form: inj, start: 28-Feb-2018 16:12 PST hydrocortisone		100 mg Not given within 7 days.	
hydrocortisone			

Continue to monitor the patient as they are receiving their medication. Once the patient has stabilized, proceed to document what you have done.

Nursing Documentation: I View

Proceed to chart the adverse event:

1. Click the **Interactive View and I&O** tab from the menu.
2. Click on the **Infusion-Oncology** Band.
3. Click on the **Infusion/Chemo Adverse Reaction** section.
4. Double-click the cell under the date within the **Infusion/Chemo Adverse** flowsheet section to open cell and complete charting.

Continue to monitor the patient per hospital policy.

The screenshot displays the software interface for nursing documentation. On the left is a 'Menu' with options like 'Ambulatory Summary', 'Oncology', 'Orders', 'Single Patient Task List', 'MAR', 'MAR Summary', 'Interactive View and I&O' (highlighted), 'Results Review', 'Documentation', 'Medication Request', 'Histories', 'Allergies', and 'CareConnect'. The main area shows the 'Interactive View and I&O' section with a sub-menu for 'Infusion-Oncology' containing items like 'PAIN ASSESSMENT', 'Peripheral IV', 'Central Line', 'Subcutaneous Catheter', 'Venipuncture/Line Draw', 'Chemo/Biotherapy Verification', 'Infusion Related Activities', 'Infusion/Chemo Treatment Mon', and 'Infusion/Chemo Adverse Reaction' (highlighted). The right pane shows a 'Last 48 Hours' view with a search bar and filters for 'Critical', 'High', 'Low', and 'Abnorm'. A table lists events, with 'Infusion/Chemo Adverse Reaction' selected for '03-Apr-2018 17:21 PDT', showing a checked checkbox and a dropdown menu with options like 'Unexpected Response' and 'Notification of MD'.



NOTE:

- You may need to take additional actions within day(s) of treatment actions if the patient only received part of their treatment and you need to reschedule the remaining infusions and/or days within that cycle.
- Refer to **Oncology Day of Treatment actions within a Powerplan** Help Topics for detailed instructions. If you need to push subsequent cycles out appropriately because of a reaction you can use the Oncology treatment calendar.
- Refer to **Oncology Treatment Calendar** Help Topics for detailed instructions.

Related Topics

- Oncology Hypersensitivity/Adverse Reaction

- **Oncology Day of Treatment actions within a Powerplan**
- **Oncology Treatment Calendar**

Related Positions

- Oncology Ambulatory Nurse, Oncology Provider, Nurse Practitioner, GPOs, GPs

Key Words

- Oncology Adverse Reactions