



**Order Set / PowerPlan Physician Feedback,
Review, and Approval**

Brief Instructions

June 14, 2023

Overview



- Purpose
- Online Order Sets
- Order Set Review Instructions
- Feedback Workshops & Meetings
- Reimbursement
- Summary

Purpose



- SaferCare seeks to fully deploy the PowerChart computerized provider order entry (CPOE) throughout all of its facilities
- To do this, we need multiple physicians reviewing electronic order sets (also referred to as PowerPlans)
- Need RCPSC-certified physician specialists as well as family physicians (CCFP) and other board-certified, licensed doctors (ex. ABMS) who practice in British Columbia to review **every** order set
- Ensure content is **safe**, reflects **current practice guidelines**

Purpose (Continued)

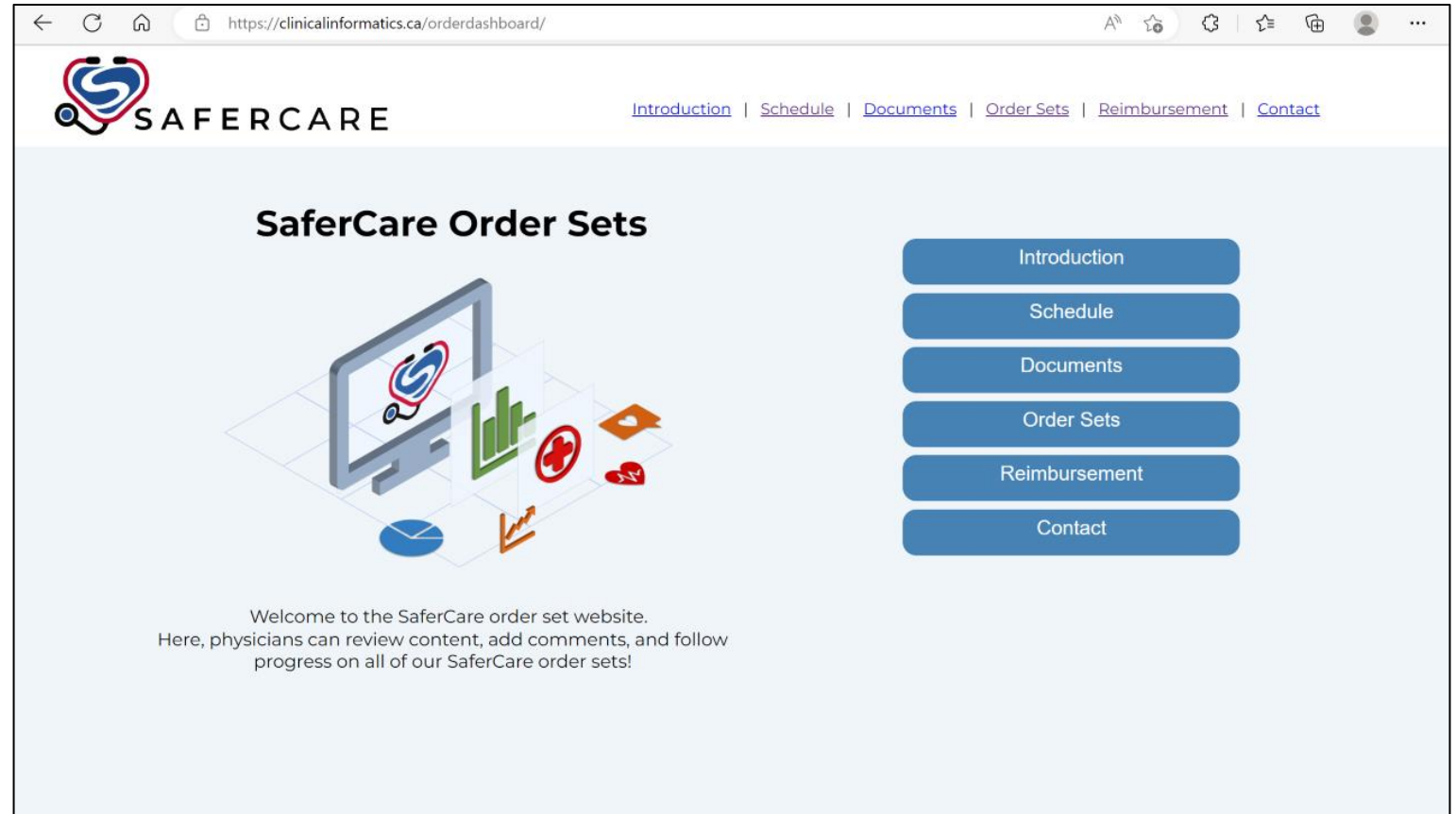


- SaferCare will be “building” order sets in PowerChart throughout the summer
- We will have a “build schedule” which shows when order sets will be ready to review using an online review tool
- We will also have a set of workshops running in parallel where physicians can provide feedback in person at UHNBC or online using MS Teams
- Physicians will be reimbursed for their time

Purpose (Continued)



- Access order sets, view the schedule, documentation, and get reimbursed through the website



<https://clinicalinformatics.ca/orderdashboard>

Blue Indicates which order sets are ready to review online (we are building these every day over the summer)

Green Indicates which suggested order sets are being reviewed in person at UHNBC (any order set can also be reviewed)

Note: Schedule is Subject to Change



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Schedule

June 11, 2023	June 12, 2023	June 13, 2023	June 14, 2023	June 15, 2023	June 16, 2023	June 17, 2023
		<p>Order Sets Built: ED Asthma ED Chest Pain ED Code Trauma ED Headache ED Seizure ED Sexual Assault ED Shortness of Breath Dyspnea ED Spine Management</p> <p>Order Sets to Review at UHNBC/On MS Teams: Any Order Set</p>	<p>Order Sets Built: ED Allergic Reaction ED Blood Body Fluid (BBFE) ED Cannabinoid Hyperemesis ... ED Opioid Overdose ED Pain Nausea Vomiting ED Procedural Sedation ED Vaginal Bleeding ED Abdominal Pain ICU Admission LTC Admission MED Admission</p> <p>Order Sets to Review at UHNBC/On MS Teams: ED Asthma ED Chest Pain ED Code Trauma ED Headache ED Seizure ED Sexual Assault ED Shortness of Breath Dyspnea ED Spine Management</p>	<p>Order Sets Built: COVID-19 Bancitinib COVID-19 General Admission COVID-19 ICU Admission COVID-19 Remdesivir COVID-19 Sotrovimab COVID-19 Tocilizumab DIET Enteral Nutrition ... ED Major Burn MH Psychiatric Admission PED Admission SURG General Admission</p> <p>Order Sets to Review at UHNBC/On MS Teams: ED Allergic Reaction ED Blood Body Fluid (BBFE) ED Cannabinoid Hyperemesis ... ED Opioid Overdose ED Pain Nausea Vomiting ED Procedural Sedation ED Vaginal Bleeding ED Abdominal Pain ICU Admission LTC Admission MED Admission</p>		
June 18, 2023	June 19, 2023	June 20, 2023	June 21, 2023	June 22, 2023	June 23, 2023	June 24, 2023

<https://clinicalinformatics.ca/orderdashboard/schedule.html>

Online Order Sets



- We have built an online review tool which allows physicians to view order sets / PowerPlans in a PowerChart-like emulator
- Comments can be left on the order set, which will be used to guide development over the summer
- These comments will help us produce the final product

Online Order Sets

Over the summer we'll add documents here to help you review the PowerPlans



https://clinicalinformatics.ca/orderdashboard/ordersetlist.html

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[Introduction](#) | [Schedule](#) | [Documents](#) | [Order Sets](#) | [Reimbursement](#) | [Contact](#)

Order Set	Category	Northern Health PDF	Northern Health DCW (Excel)	CST Content	Guidelines	Updated	Preview
ED Allergic Reaction	Emergency Med	TBA	TBA	TBA	TBA	06/13/2023	
ED Asthma	Emergency Med	TBA	TBA	TBA	TBA	06/13/2023	
ED Allergic Reaction	Emergency Med	TBA	TBA	TBA	TBA	06/13/2023	
ED Cannabinoid Hyperemesis Syndrome	Emergency Med	TBA	TBA	TBA	TBA	06/13/2023	
ED Chest Pain	Emergency Med	TBA	TBA	TBA	TBA	06/13/2023	
ED Code Trauma	Emergency Med	TBA	TBA	TBA	TBA	06/13/2023	
ED Headache	Emergency Med	TBA	TBA	TBA	TBA	06/13/2023	
ED Opioid Overdose	Emergency Med	TBA	TBA	TBA	TBA	06/13/2023	
ED Pain Nausea Vomiting	Emergency Med	TBA	TBA	TBA	TBA	06/13/2023	
ED Procedural Sedation	Emergency Med	TBA	TBA	TBA	TBA	06/13/2023	
ED Seizure	Emergency Med	TBA	TBA	TBA	TBA	06/13/2023	
ED Sexual Assault	Emergency Med	TBA	TBA	TBA	TBA	06/13/2023	
ED Shortness of Breath	Emergency Med	TBA	TBA	TBA	TBA	06/13/2023	

Click here to preview and electronic order set (PowerPlan)

<https://clinicalinformatics.ca/orderdashboard/ordersetlist.html>

Order Set Review Instructions



- We need physician feedback on order sets, whether the orders are appropriate, etc.
- The order sets / PowerPlans will follow a “style guide” which uses conventions and standardizations to help make them easy to follow (ex. category names are standardized to “Patient Care” or “Medications”)
- We need your input on orders (do we have the right ones there?), order sentence content (these are details for the orders), notes (bits of yellow text with comments, clarifications, or links to resources), and other aspects
- Does the content match best clinical practice / current guidelines?

You can leave comments/ suggested changes by clicking here

Order sets are previewed online in a PowerChart-like interface

The screenshot displays the 'clinicalinformatics.ca' order dashboard. At the top, the patient's name 'Smith, Bob - 0003827' is shown, along with a 'Comments' button. Below this, patient details are listed: Name, DOB, Sex, Address, EMR, MRN, Weight, Height, Allergies, PCP, Alerts, Precautions, Location, Date Admitted, and LOS. A left-hand menu allows navigation between various views like Provider View, Results View, Orders, Documentation, Allergies, Clinical Media, Diagnoses and Problems, MAR, Medication List, Form Browser, Histories, Interactive View and I&O, Multi-Disciplinary Rounding, Activities and Interventions, Medication List, Outside Records, Patient Appointments, and eHealth Viewer. The main area shows a list of order sets under the heading 'ED Code Trauma (Version 1.79)'. This list is organized into sections: Patient Care, Continuous Infusions, and Medications. Each section contains a table with columns for Component, Status, Order Com..., Dose..., and Details. Checkmarks in the Component column indicate which orders are active. For example, in the Patient Care section, 'Peripheral IV Insertion', 'Vital Signs (VS)', and 'Neurological Vital Signs (NVS)' are checked. In the Medications section, 'morphine' and 'ketamine' are listed with their respective dosages and frequencies.

Component	Status	Order Com...	Dose...	Details
ED Code Trauma (Version 1.79)				
Patient Care				
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Peripheral IV Insertion		T;N, Once, Start two large bore/gauge IVs
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Intraosseous (IO) Access Device Insertion		T;N, Once, Start two large bore/gauge IVs
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Vital Signs (VS)		T;N, q15min for 2 hr
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Neurological Vital Signs (NVS)		T;N, q30min, If GCS is less than 14
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Bair Hugger		T;N, If temp is less than 36.0 Â°C
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Oxygen Therapy (O2)		T;N, 95 to 100%, Constant Order
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Urinary Catheter Insertion		T;N, Trauma, Foley Catheter, Caution with potential urethral injuries
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Nasogastric (NG) Tube Insertion		T;N, Once, Caution with basal skull/facial fractures
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Orogastric (OG) Tube Insertion		T;N, Once, Caution with basal skull/facial fractures
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Cervical Collar Removal		T;N
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Soft Collar		T;N, Change to vista collar
Continuous Infusions				
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sodium Chloride 0.9% Bolus		1,000 mL, IV BOLUS, Injection, Once, STAT, Warmed
Medications				
<input type="checkbox"/>	<input checked="" type="checkbox"/>	morphine		2 mg, IV Push, Injection, q10min, PRN, Pain, STAT, 5 day(s)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	morphine		7.5 mg, IM, Injection, Once, STAT
<input type="checkbox"/>	<input checked="" type="checkbox"/>	ketamine		20 mg, IV Push, Injection, q15min, PRN, Pain, STAT, 5 day(s), May give 5 to 20 mg
<input type="checkbox"/>	<input checked="" type="checkbox"/>	ketamine		0.4 mg, IV Push, Injection, q15min, Pain, breakthrough, STAT, T;N, 5 day(s), May give 0.2 to 0.4 mg

You can click/unclick orders and scroll through them like you would in PowerChart

This is an order that is still being configured / "built" by Northern Health - check back for updates!

Orders are on the left side of the screen, and can include medications, laboratory tests, etc.

This yellow text is a note which can clarify orders

Blue text is a category / subcategory (a visual aid)

The screenshot shows a web application for clinical informatics. At the top, the patient's name is "Smith, Bob - 0003827 Opened by Fred Smithers, Internal Medicine". Below this is a menu bar with options like Home, Message Centre, Patient List, Physician Handoff, Dynamic Worklist, eHealth Viewer, PharmaNet Viewer, and PowerChart Web Manual. A "Comments" button is visible in the top right. The patient's details are displayed in a blue header: Name: Smith, Bob, DOB: 02/18/1954, Sex: Male, Address: 123 Some St. Prince..., EMR: 83749247, MRN: 02837582938, Weight: 75 kg, Height: 1.8m, Allergies: No known allergies, PCP: Urgent Care Physician, Alerts: Falls Risk, Precautions: Droplet, Location: UHNBC 4-B 22, Date Admitted: 05-05-2023, LOS: 5 Days. The left sidebar contains a "Menu" with various options: Provider View, Results View, Orders, Documentation, Allergies, Clinical Media, Diagnoses and Problems, MAR, MAR Summary, Medication List, Form Browser, Histories, Interactive View and I&O, Multi-Disciplinary Rounding, Activities and Interventions, Medication List, Outside Records, Patient Appointments, and eHealth Viewer. The main area displays a list of orders. The first order is highlighted in yellow and contains the text "NH Order to be configured: Phenytoin Oral Load (Module)". Below this are several medication orders, each with a checkbox, a name, and details. The details for each medication order are in yellow text. The last order is a laboratory test, "CBC w/ Diff", which is highlighted in blue. At the bottom of the list, there are three placeholder orders for panels "Electrolytes/Urea/Cr/Glu" and "Calcium, Mg, PO4". A "Dx Table" button is at the bottom left, and a "Sign" button is at the bottom right.

Component	Status	Order Com...	Dose...	Details
phenytoin				18 mg/kg, IV Piggyback, Injection, Once, NOW
NH Order to be configured: Phenytoin Oral Load (Module)				
phenytoin extended release				300 mg, PO, SR Cap, Once, NOW
carbamazepine				200 mg, PO, Tab, Once, NOW
levetiracetam				500 mg, PO, Tab, Once, NOW
levetiracetam 100 mg/mL intravenous solution				40 mg/kg, IV Piggyback, Injection, Once, NOW
lamotrigine 100 mg oral tablet				50 mg, PO, Tab, Once, NOW
valproic acid				250 mg, PO, Tab, Once, NOW, T,N
Consider the need for Rapid Sequence Intubation				
Placeholder for subphase "ED Intubation (Module)"				
midazolam				0.3 mg/kg, IV Push, Injection, Once, NOW
"midazolam titratable infusion (1 mg/ml) in ns standard" CIS Pharmacy to Update with IV Set When Built				
propofol				2 mg/kg, IV Push, Emulsion, Once, NOW
"propofol titratable infusion (10 mg/ml) standard" CIS Pharmacy to Update with IV Set When Built				
"propofol titratable infusion (20 mg/ml)" CIS Pharmacy to Update with IV Set When Built				
Laboratory				
CBC w/ Diff				Blood, STAT collect, T,N, Once
Placeholder for panel "Electrolytes/Urea/Cr/Glu"				
Placeholder for panel "Calcium, Mg, PO4"				

Order sentences are the details for an order, if an arrow appears you have a menu to pick from - click on the text to see it!

Things to Look for and Comment On:

Are certain orders default checked or not:

Are these the right orders? Would you change the sequence of orders?

These are order sentences (with dose, route, etc). Would you change/add/delete an order sentence?

	Component	Status	Order Com...	Dose...	Details
ED Code Trauma (Version 1.79)					
△ Patient Care					
<input checked="" type="checkbox"/>	Peripheral IV Insertion				T;N, Once, Start two large bore/gauge IVs
<input type="checkbox"/>	Intraosseous (IO) Access Device Insertion				T;N, Once, Start two large bore/gauge IVs
<input checked="" type="checkbox"/>	Vital Signs (VS)				T;N, q15min for 2 hr
<input checked="" type="checkbox"/>	Neurological Vital Signs (NVS)				T;N, q30min, If GCS is less than 14
<input type="checkbox"/>	Bair Hugger				T;N, If temp is less than 36.0 Å°C
<input type="checkbox"/>	Oxygen Therapy (O2)				T;N, 95 to 100% Constant Order
<input type="checkbox"/>	Urinary Catheter Insertion				T;N, Trauma, Foley Catheter, Caution with potential urethral injuries
<input type="checkbox"/>	Nasogastric (NG) Tube Insertion				T;N, Once, Caution with basal skull/facial fractures
<input type="checkbox"/>	Orogastric (OG) Tube Insertion				T;N, Once, Caution with basal skull/facial fractures
<input type="checkbox"/>	Cervical Collar Removal				T;N
<input type="checkbox"/>	Soft Collar				T;N, Change to vista collar
△ Continuous Infusions					
<input type="checkbox"/>	Sodium Chloride 0.9% Bolus				1,000 mL, IV BOLUS, Injection, Once, STAT, Warmed
△ Medications					
<input type="checkbox"/>	morphine				2 mg, IV Push, Injection, q10min, PRN, Pain, STAT, 5 day(s)
<input type="checkbox"/>	morphine				7.5 mg, IM, Injection, Once, STAT
<input type="checkbox"/>	ketamine				7.5 mg, IM, Injection, Once, STAT PRN, Pain, STAT, 5 day(s), May give 5 to 20 m
<input type="checkbox"/>	ketamine				5 mg, IM, Injection, Once, STAT Pain, breakthrough, STAT, T;N, 5 day(s), May
<input type="checkbox"/>	ketamine				10 mg, IM, Injection, Once, STAT

Dx Table Sign

... feel free to comment on anything else!

How To Leave Comments

← ↻ 🏠 🔒 https://clinicalinformatics.ca/orderdashboard/ehrviewer.html?mode=code

P

Smith, Bob - 0003827 Opened by Fred Smithers, Internal Medicine

Task Edit View Patient Chart Links Notifications Options Current Add Help

Home

Message Centre

⚙️ Patient List

📄 Physician Handoff

📋 Dynamic Worklist

🌐 eHealth Viewer

🌐 PharmaNet Viewer

📖 PowerChart Web Manual

Exit

Calculator

🗑️ Tear Off

📖 Patient Education

Smith, Bob Ral...

Name: Smith, Bob

DOB: 02/18/1954

Sex: Male

Address: 123 Some St. Prince...

EMR: 83749247

MRN: 02837582938

Weight: 75 kg

Height: 1.8m

Allergies: No known allergies

Menu

Provider View

Results View

Orders

Documentation

Allergies

Clinical Media

Diagnoses and Problems

MAR

MAR Summary

Medication List

Form Browser

Histories

Interactive View and I&O

Multi-Disciplinary Rounding

Activities and Interventions

Medication List

Outside Records

Patient Appointments

eHealth Viewer

🔊 🔍 + Add to Phase ⚠️ Check Alerts Start: Now ... Duration: None ...

Component

Status

Order

ED Code Trauma (Version 1.79)

⚙️ Patient Care

☒

Peripheral IV Insertion

☐

Intraosseous (IO) Access Device Insertion

☒

Vital Signs (VS)

☒

Neurological Vital Signs (NVS)

☐

Bair Hugger

☐

Oxygen Therapy (O2)

☐

Urinary Catheter Insertion

☐

Nasogastric (NG) Tube Insertion

☐

Orogastric (OG) Tube Insertion

☐

Cervical Collar Removal

☐

Soft Collar

⚙️ Continuous Infusions

☐

Sodium Chloride 0.9% Bolus

⚙️ Medications

☐

🧴 morphine

☐

🧴 morphine

☐

🧴 ketamine

☐

🧴 UNDO

Dx Table

Sign

Comments

Add Comment

Close Comments

Message

Hello

Date: 2023-04-27 From: undefined To: Andrew

This is a test message

T.N. Once, Start two large bore/gauge IVs

T.N. Once, Start two large bore/gauge IVs

T.N. q15min for 2 hr

T.N. q30min, if GCS is less than 14

T.N. If temp is less than 36.0 A°C

T.N. 95 to 100%, Constant Order

☒ T.N. Trauma, Foley Catheter, Caution with potential urethral injuries

T.N. Once, Caution with basal skull/facial fractures

T.N. Once, Caution with basal skull/facial fractures

T.N.

T.N. Change to vicks collar

☒ 1 000 mL IV BOLUS, Injection, Once, STAT: Wounded

☒ 4 mg, IV Push, Injection, q10min, PRN Pain, STAT, 5 day(s)

☒ 7.5 mg, IM, Injection, Once, STAT

20 mg, IV Push, Injection, q15min, PRN Pain, STAT, 5 day(s). May give 5 to 20

0.4 mg, IV Push, Injection, q15min, PRN Pain, STAT, 5 day(s). May

1. Click here to leave a comment

2. Click "add comment"

How To Leave Comments

The screenshot displays the eHealth Viewer interface with a 'Physician / Stakeholder Feedback' dialog box open. The dialog box contains the following information:

- Title:** Code Order Set - Oxygen Therapy
- Author:** Dr. Bob Smith
- Date:** 16-05-2023
- Message:** Please default check Oxygen Therapy and add flow rates

At the bottom of the dialog box are two buttons: 'Cancel' and 'Add Comment'. The background interface shows a patient record for 'Smith, Bob' with various tabs and a list of orders, including 'Sodium Chloride 0.9% Bolus', 'morphine', and 'ketamine'.

3. Enter a comment about what you'd like to change

4. Click "Add Comment"

How To Leave Comments

← ↻ 🏠 🔒 https://clinicalinformatics.ca/orderdashboard/ehrviewer.html?mode=code

Smith, Bob - 0003827 Opened by Fred Smithers, Internal Medicine

Task Edit View Patient Chart Links Notifications Options Current Add Help

Home Message Centre Patient List Physician Handoff Dynamic Worklist eHealth Viewer PharmaNet Viewer PowerChart Web Manual

Exit Calculator Tear Off Patient Education

Smith, Bob Ra...

Name: Smith, Bob

DOB: 02/18/1954

Sex: Male

Address: 123 Some St. Prince...

EMR: 83749247

MRN: 02837582938

Weight: 75 kg

Height: 1.8m

Allergies: No known allergies

Menu

Provider View

Results View

Orders

Documentation

Allergies

Clinical Media

Diagnoses and Problems

MAR

MAR Summary

Medication List

Form Browser

Histories

Interactive View and I&O

Multi-Disciplinary Rounding

Activities and Interventions

Medication List

Outside Records

Patient Appointments

eHealth Viewer

ED Code Trauma (Version 1.79)

⚙️ 🔍 ⚙️ + Add to Phase ⚠️ Check Alerts Start: Now Duration: None

	Component	Status
Patient Care		
<input checked="" type="checkbox"/>	Peripheral IV Insertion	
<input type="checkbox"/>	Intraosseous (IO) Access Device Insertion	
<input checked="" type="checkbox"/>	Vital Signs (VS)	
<input checked="" type="checkbox"/>	Neurological Vital Signs (NVS)	
<input type="checkbox"/>	Bair Hugger	
<input type="checkbox"/>	Oxygen Therapy (O2)	
<input type="checkbox"/>	Urinary Catheter Insertion	
<input type="checkbox"/>	Nasogastric (NG) Tube Insertion	
<input type="checkbox"/>	Orogastric (OG) Tube Insertion	
<input type="checkbox"/>	Cervical Collar Removal	
<input type="checkbox"/>	Soft Collar	
Continuous Infusions		
<input type="checkbox"/>	Sodium Chloride 0.9% Bolus	
Medications		
<input type="checkbox"/>	morphine	
<input type="checkbox"/>	morphine	
<input type="checkbox"/>	ketamine	
<input type="checkbox"/>	UNDO	

Dx Table

Comments

Add Comment Close Comments

Message Hello

Date: 2023-04-27 From: undefined To: Andrew

This is a test message

Physician Code Order Set - Oxygen Therapy

Date: 16-05-2023 From: Dr. Bob Smith To: Everyone

Please default check Oxygen Therapy and add flow rates

T.N. q30min, if GCS is less than 14

T.N. If temp is less than 36.0 °C

T.N. 95 to 100%, Constant Order

☒ T.N. Trauma, Foley Catheter, Caution with potential urethral injuries

T.N. Once, Caution with basal skull/facial fractures

T.N. Once, Caution with basal skull/facial fractures

T.N.

T.N. Change to vesta collar

☒ 1,000 mL, IV BOLUS, Injection, Once, STAT, Wanted

☒ 2 mg, IV Push, Injection, q15min, PRN, Pain, STAT, 5 day(s)

☒ 7.5 mg, IM, Injection, Once, STAT

20 mg, IV Push, Injection, q15min, PRN, Pain, STAT, 5 day(s), May give 5 to 20

0.4 mg, IV Push, Injection, q15min, Pain, STAT, 5 day(s), STAT TN, 5 day(s), May

5. Your comments will appear here

6. Click "Close Comments"

15

Feedback Workshops & Meetings

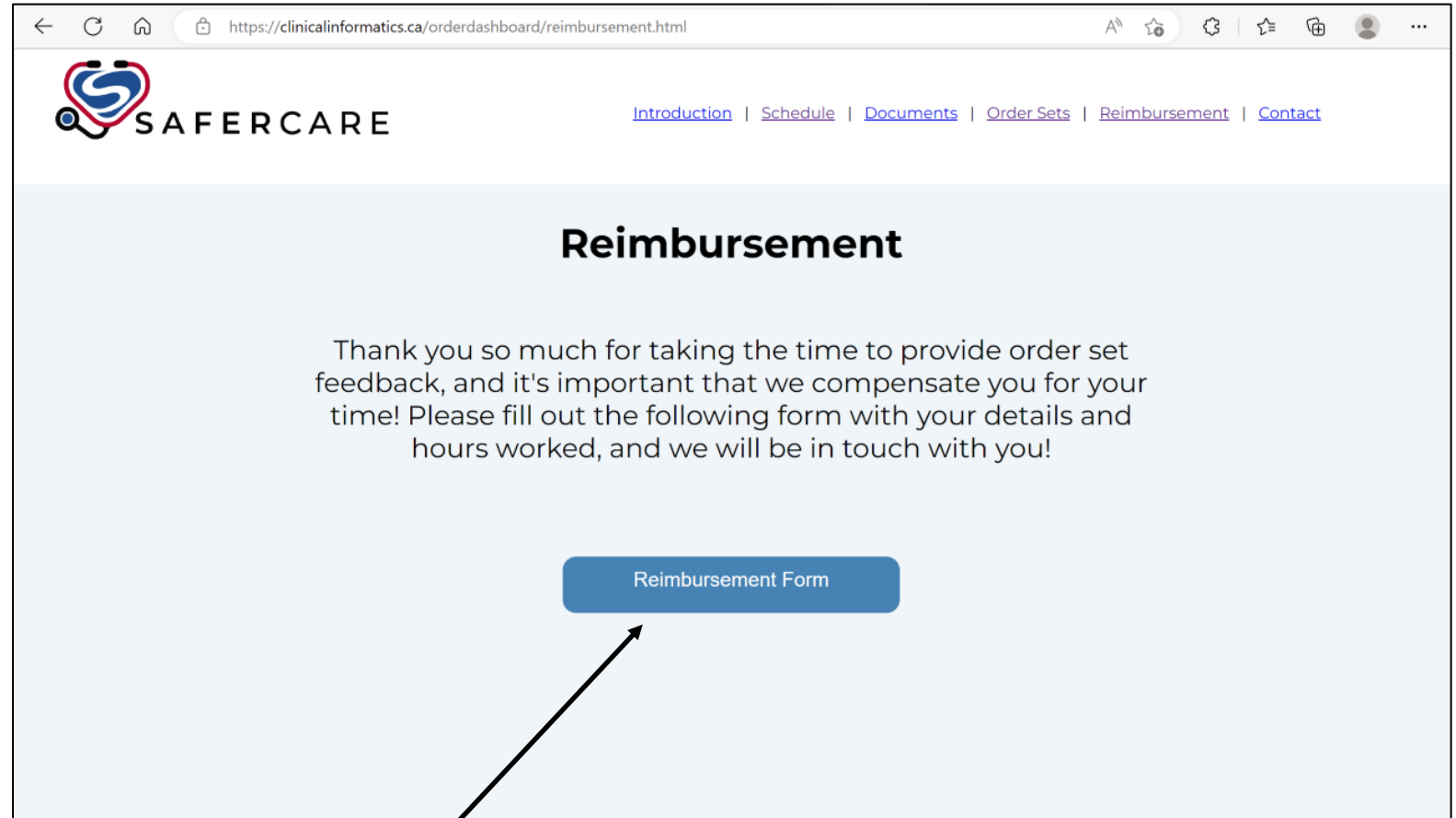


- Dr. Andrew Deonarine (UHNBC) and Dr. Carl Severson (Terrace) will hold in-person workshop meetings in the UHNBC (doctor's lounge) and in Terrace
- Anyone can show up to discuss order sets on a particular day, and we'll have *suggested* order sets we'll review each day
- *But if you have one you really want to review, please just show up!*
- We will also have Teams / Zoom meetings with other Northern Health sites, just reach out to Tasha Strand (tasha.strand@northernhealth.ca), Dr. Andrew Deonarine (andrew.deonarine@northernhealth.ca), or Dr. Carl Severson
- Andrew will also do one-on-one meetings around your call schedule, any time of the day (morning, noon, or night!) – your input and sign-off is of the utmost importance!

Reimbursements



- It is important to use that you are compensated for your time.
- You can fill out the reimbursement form on the website



Click here and fill out your details
(hours worked, order sets covered, etc)

Summary



- Order set review is extremely important for our PowerChart CPOE deployment
- We value the time of physicians across Northern Health (specialists, family doctors, locums, etc)
- We need to completely review all order sets and update them by the end of the summer
- We at SaferCare look forward to working with you!