

## Massive Hemorrhage Order Entry:

Activate the massive hemorrhage protocol

Enter PCS, **choose patient and open chart.** Select **Orders**, followed by **New Orders**.

Trainrv, Sur3 V00001366 - PCS Open Chart (ROV TEST - TEST)

Return To: Trainrv, Sur3 Code Status Not Ordered No Hx Avail VS0000469/21 V00001366  
45 F 01/02/1976 0g None E00002631  
REG SDC (T) V.OR Allergy/Adv: Not Recorded

Current Orders Transfer Orders Hold Queue History

2. New Orders New Meds New Sets

Category	Ordering Provider	Start	Renew/Stop	Status
RAD Abdomen 1 vw Urgent	Radiology	Casces, Alberto, MD	09/06/2021 13:59	Ordered

1. Orders

1. Choose orders  
2. Select new orders

Provider should be highlighted.

Choose **Therapeutic Assess/Protocol** or **Verbal Order(e-Sign)** followed by **OK**.

Trainrv, Sur3 Code Status Not Ordered No Hx Avail VS0000469/21 V00001366  
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REG SDC (T) V.OR Allergy/Adv: Not Recorded

Enter Default Provider and Source

Provider: Casces, Alberto  
Source: Therapeutic Assess/Protocol

1. Provider should default  
2. Choose Therapeutic Assess/Protocol  
3. Click OK at the bottom

Choose **New Sets**, type in **Mass** or **MHP**, choose **MHP Activation Pack 1**

1. Choose New Sets  
2. Type in mass or MHP  
3. Choose MHP Activation Pack 1

Click on **MHP pack 1**. Click **Next**.

1. Check Massive Hemorrhage Protocol Pack 1  
2. Click Next

Click **OK** to the reflex orders.

This screen pops up to tell you there are reflex orders within the set, for catheter and xylocaine if required and for your red cell concentrate. Click OK

## Review pre checked orders

**Order** SCH Status Start/Stop

**Massive Hemorrhage Protocol**

**Massive Hemorrhage Protocol Activation**

Order New Mon Aug 30 16:33 [Edit]

Provider: Casses,Alberto  
Source: Therapeutic Assess/Protocol

Transfusion Ontario: MHP Resources  
Indications for activation of this protocol:  
Known substantial blood loss estimated to be 1500 mL or greater than 6 units of RBCs  
OR  
uncontrolled hemorrhage and hemodynamic instability  
OR  
anticipated blood loss of greater than 10 units of RBCs in 2-hour period  
OR  
trauma with 2 or more of the following:  
Penetrating trauma  
HR 120 bpm or greater  
SBP 90 mmHg or less  
Positive FAST (Focused Abdominal Sonography in Trauma)

**Patient Care**

Cardiac Monitoring  
 Continuous New Mon Aug 30 16:33 [Edit]

Indications for activation are at the top.  
Orders are pre-checked for any care components, ex. cardiac monitoring.  
Pre checked labs are set for hourly x 5 instances.

Determine if platelets are required and notify blood bank, consult MRP to assess Tranexamic acid-check the box if required.

**Trainrv,Sur3** Code Status Not Ordered No Hx Avail VS0000469/21 V000001366  
45 F 01/02/1976 Og None E00002631  
REG SDC (T) V.OR Allergy/Adv: Not Recorded

**Manage Order List**

Order	SCH	Status	Date	Group
Remove all IVs if IV Fluids are discontinued				
<input checked="" type="checkbox"/> sodium chloride 0.9% 500 mL BOLUS sodium chloride 0.9 % [NaCl 0.9%] 500 ml IV BOLUS	ONE	New	Mon Aug 30 16:28 Mon Aug 30 16:58	[Edit]
<b>Medications</b> CONSULT MRP TO DETERMINE IF TRANEXAMIC ACID TO BE ORDERED				
<input checked="" type="checkbox"/> tranexamic acid [Cyclokapron] 1,000 mg IV ONCE inj	ONE			
<b>Laboratory</b> Platelets should be transfused based on platelet count. If considering platelets, alert Blood Bank ASAP to order from outside centre (approximately 1 hour to r...				
<input checked="" type="checkbox"/> Red Cell Concentrate				
<input checked="" type="checkbox"/> Stat		New	Mon Aug 30 16:33	[Edit]
<b>Initial and Ongoing Labs</b>				
<input checked="" type="checkbox"/> Complete Blood Count				
<input checked="" type="checkbox"/> Q1H (5) Stat	Series		Mon Aug 30 16:45	[Edit]

Click **Submit**

Review list of orders. Put in \* **PIN**. Click **Save Selected**.

**Unsaved Data for Trainrv,Sur3 V000001366**

Order	SCH	Status	Date	Group
Basic Metabolic Panel Q1H		New	Mon Aug 30 18:45	
Basic Metabolic Panel Q1H		New	Mon Aug 30 19:45	
Basic Metabolic Panel Q1H		New	Mon Aug 30 20:45	
Magnesium Q1H (5)		Series	Mon Aug 30 16:45	
Magnesium Q1H		New	Mon Aug 30 16:45	
Magnesium Q1H		New	Mon Aug 30 17:45	
Magnesium Q1H		New	Mon Aug 30 18:45	
Magnesium Q1H		New	Mon Aug 30 19:45	
Magnesium Q1H		New	Mon Aug 30 20:45	
Lactate (Lactic Acid) Q1H (5)		Series	Mon Aug 30 16:45	
Lactate (Lactic Acid) Q1H		New	Mon Aug 30 16:45	
Lactate (Lactic Acid) Q1H		New	Mon Aug 30 17:45	
Lactate (Lactic Acid) Q1H		New	Mon Aug 30 18:45	
Lactate (Lactic Acid) Q1H		New	Mon Aug 30 19:45	
Lactate (Lactic Acid) Q1H		New	Mon Aug 30 20:45	
Fibrinogen Assay Q1H (5)		Series	Mon Aug 30 16:45	
Fibrinogen Assay Q1H		New	Mon Aug 30 16:45	
Fibrinogen Assay Q1H		New	Mon Aug 30 17:45	
Fibrinogen Assay Q1H		New	Mon Aug 30 18:45	
Fibrinogen Assay Q1H		New	Mon Aug 30 19:45	
Fibrinogen Assay Q1H		New	Mon Aug 30 20:45	
Ionized Calcium Q1H (5)		Series	Mon Aug 30 16:45	
Ionized Calcium Q1H		New	Mon Aug 30 16:45	
Ionized Calcium Q1H		New	Mon Aug 30 17:45	
Ionized Calcium Q1H		New	Mon Aug 30 18:45	
Ionized Calcium Q1H		New	Mon Aug 30 19:45	
Ionized Calcium Q1H		New	Mon Aug 30 20:45	

\* PIN [ ] Save Selected

1. A list of all orders will populate for review.  
2. Put in PIN

You will now see the orders, including the series labs.

Physician, Rvththree  
 81 M 03/03/1940  
 ADM IN V.SR2 SR2.10-2

Code Status Not Ordered No Hx Avail  
 Allergy/Adv: Not Recorded

VA0002967/21  
 None

V000003936  
 E00008587

Current Orders | Transfer Orders | Hold Queue | History

New Orders | New Meds | New Sets

Category	Ordering Provider	Start	Renew/Stop	Status
<b>Activity and restrictions</b>				
Bed Rest Routine	Abdel Shahid, Karim, MD	28/07/2021 08:58		Ordered
<b>Assessment and Monitoring</b>				
Blood Pressure Monitoring Q5M	Mt, Meditech	31/08/2021 08:37		Ordered
Cardiac Monitoring Continuous	Mt, Meditech	31/08/2021 08:37		Ordered
Intake and Output Strict Q1HR	Mt, Meditech	31/08/2021 08:37		Ordered
Oximetry Monitoring Continuous	Mt, Meditech	31/08/2021 08:37		Ordered
Temperature Monitoring Q15M	Mt, Meditech	31/08/2021 08:37		Ordered
Transfusion Instructions Red Cells ONCE	Mt, Meditech	31/08/2021 08:37		Ordered
Vital Signs Q15M	Mt, Meditech	31/08/2021 08:37		Ordered
<b>Communication</b>				
Activate Massive Hemorrhage Protocol Order	Mt, Meditech	31/08/2021 08:37		Ordered
<b>Laboratory</b>				
Red Cell Concentrate Stat	Mt, Meditech	31/08/2021 08:37		Ordered
Basic Metabolic Panel Q1H (5)	Mt, Meditech	31/08/2021 08:45	31/08/2021 12:45	Series
Complete Blood Count Q1H (5)	Mt, Meditech	31/08/2021 08:45	31/08/2021 12:45	Series
Fibrinogen Assay Q1H (5)	Mt, Meditech	31/08/2021 08:45	31/08/2021 12:45	Series
International Normalized Ratio Q1H (5)	Mt, Meditech	31/08/2021 08:45	31/08/2021 12:45	Series

You will now see the ordered protocol, including the lab series order.

**Note:** Order subsequent packs as required by following the same steps. Do not forget to communicate with blood bank verbally/telephone to ensure they are aware of upcoming requirements.

Enter **MHP Pack #2**, **MHP Pack #3**, **MHP Pack #4** and ongoing, in order of requirement.

MHP, Inpatient Two  
 69 M 07/07/1952  
 ADM IN V.SSD SSD.02-1

Code Status Not Ordered No Hx Avail  
 Allergy/Adv: Not Recorded

VA0004547/21  
 None

V000005092  
 E00011099

Current Orders | Transfer Orders | Hold Queue | History

New Orders | New Meds | New Sets | 0 Queued

Favorites | Category | Name

Order Sets by Name

a b c d e f g h i j k l m n o p q r s t u v w x y z  
 1 2 3 4 5 6 7 8 9 0 - = [ ] \ / . , ' \* ; : ' List

Order Set  Del Clear Shift Starts With Any Word

Order Sets	Specialty
<input type="checkbox"/> MHP Activation Pack 1	
<input type="checkbox"/> MHP Adjunct Medications	
<input type="checkbox"/> MHP Pack 2	
<input type="checkbox"/> MHP Pack 3	
<input type="checkbox"/> MHP Pack 4 AND ONGOING	

There is set for reversal medications as required to be ordered in consultation with provider.

Order Reversal medications following above process – type **MHP Adjunct Medications** for the below Order Set. MRP consultation will be required for dosing of some medications.

Order	SCH	Status	Start/Stop	
<b>MHP Adjunct Medications</b>				
<b>Hypocalcemia Correction</b>				
<input type="checkbox"/> calcium chloride [Calcject]				
<input type="checkbox"/> 1,000 mg IV ONCE inj	ONE			
<b>Apixaban/Rivaroxaban/Endoxaban Reversal with PCC</b>				
Prothrombin Complex Concentrate (PCC) may be considered for reversal of apixaban, rivaroxaban or edoxaban in patient with serious or life threatening hemorrhage				
CONTRAINDICATIONS TO PCC: patients with history of heparin-induced thrombocytopenia (HIT) (Beriplex and Octaplex both contain heparin.)				
<input checked="" type="checkbox"/> Prothrombin Complex Conc				
<input type="checkbox"/> Stat				
<b>Dabigatran Reversal with Idarucizumab</b>				
<input type="checkbox"/> idarucizumab [Praxbind]				
<input type="checkbox"/> 2.5 g IV Q5M inj	SCH			
<b>Warfarin Reversal - Serious/Life Threatening Bleed</b>				
For patients with warfarin-associated major bleeding, rapid reversal with Prothrombin Complex Concentrate(PCC) is recommended, rather than with plasma. (Grade 2C)				
STEP 1: HOLD Warfarin.				
STEP 2: Order Prothrombin Complex Concentrate (Octaplex/Beriplex)				
STEP 3: Regardless of the magnitude of INR elevation, give Vitamin K 10 mg by slow IV infusion.				
<input type="checkbox"/> phyttonadione [Vitamin K]				
<input type="checkbox"/> 10 mg IV ONCE inj	ONE			
<input checked="" type="checkbox"/> Prothrombin Complex Conc				
<input type="checkbox"/> Stat				
<b>Heparin Reversal</b>				
<input type="checkbox"/> protamine sulfate				
<input type="checkbox"/> DOSE mg IV ONCE inj	ONE			

An adjunct set has been created to aid in the ordering of reversal agents and correction of hypoglycemia