



Marshfield Labs™

Laboratory *News*

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Pre-op Type and Screen: Timing is Everything

Evidence-based practice for best patient outcomes focuses on the right intervention, to the right patient, for the right reason, at the right time. Lab ordering practices are no different. Appropriate pre-op planning, including ordering of Type and Screen well in advance, ensures blood product availability on the day of surgery and reduces the risk of a canceled procedure.

Due to the disparate electronic healthcare records at MCHS for outpatients and inpatients, this task is not as easy as it sounds. In addition, not all blood components are readily available at all MCHS hospital sites.

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BEYOND numbers

While blood collections have undoubtedly been disrupted by the COVID-19 pandemic, blood donations have been declining for several years. The current state of the nation's blood supply (see report - [Improving the Fragile US Supply of Blood](#)) remains precarious leading to lower inventory at all US hospitals.

The best approach for ordering and having blood components “on-hold” for surgical patients at all MCHS hospitals is described below. Use of other options is possible (refer to CERNER Resource document - [Ordering Blood Products for Surgical Patients](#)), but that increases the chance for blood product delay, postponing or rescheduling surgery, and potentially patient inconvenience.

SCENARIO #1:

Patient is currently an outpatient and will be admitted to hospital on Day of Surgery (e.g. Same Day Admit) AND seen in the clinic from 1-30 days prior to “day of surgery”:

- 1) Surgeon/Care Team to **enter a Lab Appointment in Patient Schedule.**
- 2) Order **Type & Screen-Preop/Outpt Tx in Clinical Order Manager.** See screenshots shown below.
 - Order can be placed **up to 30 days prior to** surgery date.
- 3) Sample collection for T&S should occur at site where surgery will be performed; but collection can be at any MCHS laboratory.
- 4) Clearly indicate MCHS site of surgery.
- 5) Order all blood components (RBCs, platelets, plasma) that potentially may be needed during surgery and/or immediate postop.



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Preop Type & Screen/Outpt Txn in Clinical Order Manager

Add Orders - Select Test - Window, William Training Test (1435244) Male 68 years DOB=12/14/1951

Appointment Date: 09/30/2020 @ 08:45 (08:45) Type: SFAC Requesting Provider: Training, Central Test MD (79570)

Appointment Facility: Marshfield Medical Offices

And Appt Comments: Leave until 10/1/2020 for Provider Training

Provider Patient

blood

View Lab Reference Manual

Custom List Common List Full List

Blood Bank

- Antibody Screen
- Blood Type, ABO & Rh
- Direct Coombs Test
- Draw and Hold Blood Bank Tube
- Draw and Hold Cord Blood Tube
- Fetal Blood Screen
- Newborn Type & Ab-Son & DAT
- Red Cell Genotyping Panel
- Red Cell Genotyping Phl. STAT
- Rh Immune Globulin Request
- Therapeutic Phlebotomy
- Type & Screen
- Type & Screen-Preop/Outpt Txn

Modify Custom List(s)

* Found by keyword

<< Back Next >> Cancel Help

Related Questions

Type Screen-Preop/Outpt Txn

ATTENTION: This order is to be used for:

1. Patients scheduled for OUTPATIENT TRANSFUSION, or
2. PRE-OP SURGICAL PATIENT where a type and screen and/or blood on hold is needed for planned surgery within the next 30 days.

Provider ID#: *

Expected Date of Transfusion or Surgery: *

Center and Department of Transfusion or Surgery: *

i.e. MFLD OR, MFLD 8N, EAU ASC, EAU Cancer Ctr, Rice Lake OR, Wausau ASC, etc.

Enter NA if Not Applicable.

If RBCs needed, select # of units: *

None

If order is for anticipated surgery and patient has RBC antibody and no units ordered, 2 antigen negative units will be prepared.

Patient transfused within preceding 3 months: *

<Please Select>

If Yes or Unknown, repeat Type and Screen must be ordered on day of surgery.

If female, patient pregnant within preceding 3 months: *

<Please Select>

If Yes or Unknown, repeat Type and Screen must be ordered on day of surgery.

RBC Special Needs: *

None

(All red cells are leukoreduced and CMV safe.)

If other blood products needed for day of surgery, select # to be available below.

Apheresis platelet (SDP): *

None

Plasma: *

None

Special Instructions (if any):

* = Required

OK Cancel Help

- 1 Enter Provider's ID #
- 2 Enter planned Surgery Date
- 3 Free text in site where surgery will be performed
- 4 Enter number of RBCs desire to have on-hold for surgery
- 5 Complete the questions if patient has been transfused in preceding 3 months; and if female, pregnant in the preceding 3 months
- 6 Enter number of Platelet units desire to have on-hold for surgery
- 7 Enter the number of Plasma units desire to have on-hold for surgery



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Scenario #2:

When a hospitalized inpatient requires surgery AND will need blood products (RBC, plasma and/or platelets) “on-hold” for the surgical procedure:

- 1) Surgeon/Care Team access Cerner Millennium PowerChart.
- 2) Search for patient and current Inpatient FIN.
- 3) Order **MED Inpatient Prepare Blood Product for Hold or Preop** PowerPlan. *See screenshots shown below.*
 - PowerPlan includes Type and Screen.
 - If Type and Screen done within the last three days of current hospitalization, Cerner will alert the ordering provider to remove Type and Screen.
- 4) **Place order no later than the evening prior to surgery, but no sooner than three days prior to surgery.**

MED Inpatient Prepare Blood Product for Hold or Preop PowerPlan

Enter name to create sequence:

Search: Advanced Options Type:

Draw and Hold Blood Bank Tube
Draw and Hold Cord Blood for Blood Bank
MED/UC Prepare Blood Product for Hold*
MED Inpatient Prepare Blood Product for Hold or Pre-op*
nitroglycerin (0.4 mg. Tab, Sublingual, q5min, duration: 3 dose(s), PRN for chest pain - hold if systolic blood pressure less t...
Enter to Search
Cardiology

Component Status Details

Component	Status	Details
MED Inpatient Prepare Blood Product for Hold or Pre-op* (Initiated Pending)		
Red Blood Cells		
<input checked="" type="checkbox"/> Prepare Red Blood Cells for Hold or Pre-op		T;N, Routine, Leukoreduced/CMV Safe
<input checked="" type="checkbox"/> Type and Screen		Blood, Routine collect, T;N, Lab Collect
Platelets		
<input checked="" type="checkbox"/> Prepare Platelets for Hold or Pre-op		T;N, Routine
Plasma		
<input checked="" type="checkbox"/> Prepare Plasma (FFP) for Hold or Pre-op		T;N, Routine

When select “Prepare Red Blood Cells...”, Type and Screen will automatically be selected.

Modify “Prepare Red Blood Cells...” to indicate # of units needed and when.

Details for Prepare Red Blood Cells for Hold or Pre-op

Requested Start Date/Time: CDT

*Priority: Routine

*Date Blood Product Needed:

*# of Unit(s)/Volume:

*Special Modifications: Leukoreduced/CMV Safe

*Reason for Prepare and Hold:

Special Instructions:

<No Items>

Enter date of surgery & # of units

Select “Surgery-Procedure” under “Reason”

Free text other requirements under “Special Instructions”



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Details for **Prepare Platelets for Hold or Pre-op**

Requested Start Date/Time: [] [] CDT

*Date Blood Product Needed: []

*Priority: Routine

*# of Units/Volume: []

*Reason for Prepare and Hold: Surgery-Procedure

Special Instructions: Hold for 24 Hours
Surgery-Procedure

Details for **Prepare Plasma (FFP) for Hold or Pre-op**

Requested Start Date/Time: [] [] CDT

*Date Blood Product Needed: []

*Priority: Routine

*# of Units/Volume: []

*Reason for Prepare and Hold: Surgery-Procedure

Special Instructions: []
<No Items>

Enter Date Needed
Enter # of units
Select "Surgery-Procedure" for "Reason"

QUESTIONS

- Further questions may be directed to Kathy Puca, MD or Clint Borek, Transfusion Services Operations Manager.
- Phone number: 800-222-5835.



BEYOND numbers