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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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 - <u>Improving the Fragile US Supply of Blood</u>) 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 <u>all</u> MCHS hospitals is described below. Use of other options is possible (refer to CERNER Resource document - <u>Ordering Blood Products for Surgical</u> <u>Patients</u>), but that increases the chance for blood product delay, postponing or rescheduling surgery, and potentially patient inconvenience.

SCENARIO #1:

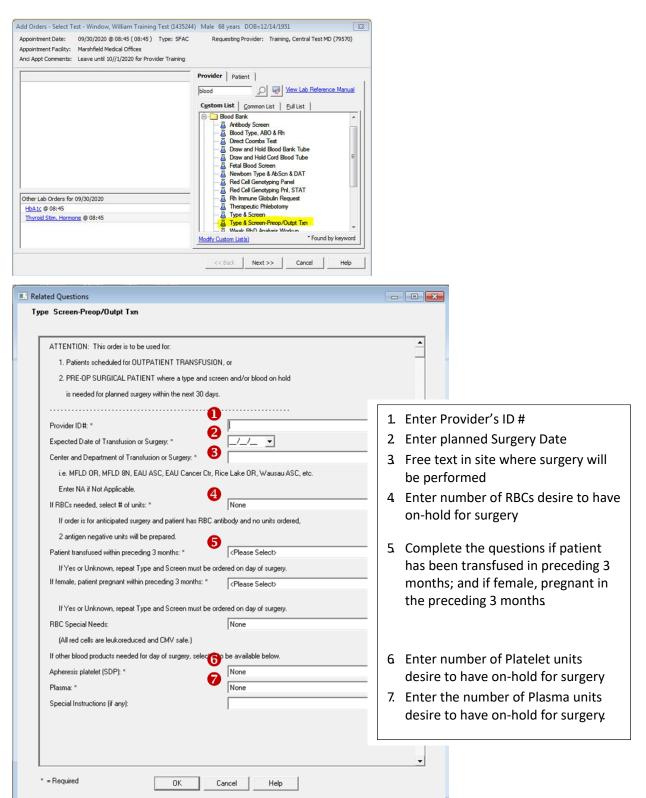
Patient is currently an outpatient and will be admitted to hospital on Day of Surgery (e.g. Same Day Admit) <u>AND</u> seen in the clinic from 1-30 days <u>prior to</u> "day of surgery":

- 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.
- 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.

BEYOND numbers

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Preop Type & Screen/Outpt Txn in Clinical Order Manager



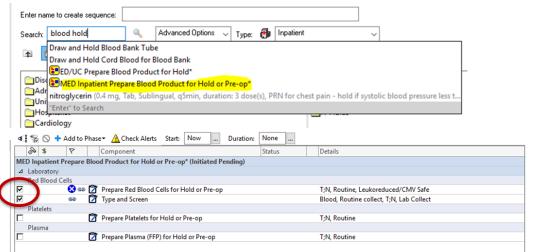
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Scenario #2:

When a <u>hospitalized</u> 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) <u>Place order no later than the evening prior to surgery</u>, but no sooner than three days prior to surgery.

MED Inpatient Prepare Blood Product for Hold or Preop PowerPlan



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QUESTIONS

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

