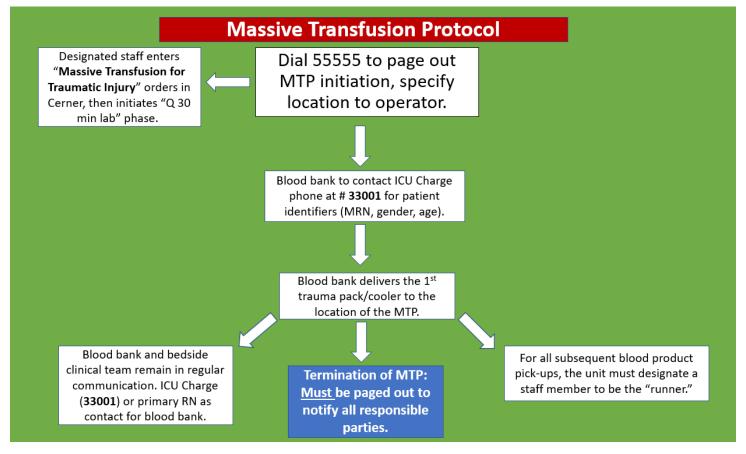


Massive Transfusion Protocol

Delivery of blood products

- Multidisciplinary team met: included Blood Bank, Trauma, OR, ICU, ED, OB
- Developed a process where the first pack in the MTP will be delivered to the department by the blood bank, no matter where it happened in the hospital.
 - All subsequent packs to be picked up by a designated runner from the department/unit initiating the MTP.

Delivery of Blood Products



Delivery of Blood Products

- All Trauma-related MTPs are reviewed through the PIPS process.
- Debriefs take place if/when anyone involved has concerns about the process, communication, or any part of the MTP.

Blood to Plasma Ratio

Nursing education:

 Engaged educators from the ED, ICU, and OR to add this topic to shift huddles, emphasize the balanced resuscitation in the annual MTP education, and share the trend we were seeing.

Provider education:

- Any cases that had a significantly unbalanced ratios discussed with the provider directly.
 - This as a reminder that the team leader needs to drive the 1:1 transfusion
 - Understand their perceived barriers/opportunities during the event

Blood to Plasma Ratio

• Nursing documentation flowsheet for MTP.



| TIME SP. TIME COMPLETE. ATTACH STICKER | Plasma: single Ther UP TIME COMPUTE ATTACH STOCKER | Plasma: single TIME LS TIME COMPUTE ATTACH STICKER | Plasmat single TIME UP TIME COMPLET ATTACH STICKER |
|--|--|--|--|
| STICKER | STICKER | STICKER | STICKER |
| STICKER | STICKER | STICKER | STICKER |
| STICKER | STICKER | STICKER | STICKER |

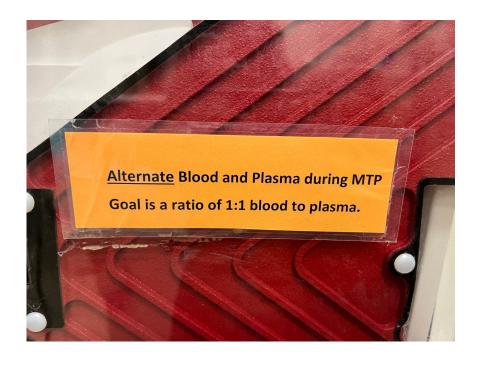
| Plasma: single | Plasma: single TIME UP TIME COMPUT ATTACH STICKER | |
|-------------------------------------|---|--|
| TIME UP TIME COMPUTE ATTACH STICKER | | |
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| | JI | |

| Pack# | PRBC 1 | Plasma 1 | PRBC 2 | Plasma 2 |
|----------|----------------|--------------------------------------|----------------|--------------------------------------|
| EXAMPLE+ | ATTACH STICKER | TIME UP TIME COMPLETE ATTACH STICKER | ATTACH STICKER | TIME UP TIME COMPLETE ATTACH STICKER |
| O NEGO | STICKER | STICKER | STICKER. | STICKER |
| 2 | STICKER | STICKER | STICKER. | STICKER |
| 3 | STICKER | STICKER | STICKER. | STICKER |
| | 1 | 1 | 1 | 1 |

| PRBC 3 | Plasma 3 | PRBC 4 | Plasma 4 |
|------------------------------|--------------------------------------|----------------|--------------------------------------|
| TIME UP TIME COMPLETE | TIME UP TIME COMPLETE ATTACH STICKER | ATTACH STICKER | TIME UP TIME COMPLETE ATTACH STICKER |
| ▲ ORDER MEXT PACK STLOSER | STICKER | STICKER | STICKER |
| A ORD ER NEXT PACK STICKER. | STICKER | STICKER | STICKER |
| ORDER NEXT PACK STICKER | STICKER | STICKER | STICKER. |
| ı | 1 | 4 | 1 |

| PRBC 5 | Plasma 5 |
|----------------|---------------------------------------|
| ATTACH STICKER | TIME UP TIME COMPLETE. ATTACH STICKER |
| | |
| STICKER | STICKER |
| | |
| STICKER | STICKER |
| | |
| STICKER | STICKER |
| 1 | 1 |

Blood to Plasma Ratio



How are we doing?

What's next?

• Whole blood at Munson Medical Center!