

# Adult Massive Transfusion Protocol (adult MTP)

OB / Anesthesia / Critical Care Physician activates

Push MTP button on Smart Panel or Call \*9999 (pt name, MR #, location)

Blood Bank will call House Supervisor (#28133) for patient info after 5' of activation if not called

Zone 1

**PHARMACY #28581**

- Brings MTP kit
- Prepares medications

**ANESTHESIA TECH #28589**

- Assists with airway/lines
- Prepares/manages FMS
- Assists in checking blood
- Tracks/calls out transfusion

**DIRECTOR**  
Anesthesiologist (red scrub hat)  
Activates/de-activates

**LIAISON - (ER RN#1) #28881**

- Receives blood from RUNNER
- Checks blood with Anesthesia
- Answers calls from Lab and BB
- Reports lab values to Director
- Notifies BB of deactivation

Zone 2

**LAB PROCESSOR - (ER RN #3)**

- Ensure *supergas* ABG & MTP labs q 30'
- Fills out MTP green sheets – 8 steps (*sticker/date/time/collector/bodytemp/contact name/contact#, label specimens*)
- Delivers tubes to 4th floor lab
- Reports ABG results to DIRECTOR

**RUNNER - (ER RN #3) Orange hat**

- Retrieves 1<sup>st</sup> MTP cooler from BB (\*must take patient sticker\*)
- Announces cooler # on OR arrival
- Hands MTP cooler off to LIAISON
- Returns to BB for more blood products
- A trained PCA may assist/assume this role

Zone 3 – OB, SURGEON, CIRCULATOR

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Zone 4

**CARE COORDINATOR (HOUSE SUPERVISOR)**

- Calls BB & Lab with patient name, MR#, location
- Manages room and personnel
- Ensures role implementation
- Coordinates role transitions
- Ensures family receives updates
- May transition to another leader

**RECORDER - (ER RN #2)**

- Records times of events
- Tracks blood loss
- Coordinate with circulator to validate quantitative blood loss

PHONE NUMBERS	
CODE TEAM	*9999
House Super	28133
Blood Bank	63648
Blood Bank (v)	28273
Lab	67424
Lab (v)	28323
Pharmacy	63770
Pharmacy 5 <sup>th</sup> (v)	28581
ER Res RN #1	28881
ER Res RN #2	28882
ER Res RN #3	28929
Resp Therp 3	28586
L&D Anes MD	28562
L&D Chrg RN	28903
L&D Frnt Desk	63950
L&D CRNA 1	28563
L&D CRNA 2	28255
OR Anes Chg	28302
Anes Tech	28589
OR Chg RN	28906
OR Front Desk	63570

**MTP Activated**  
OR Temp 75-78° F

**Initial Transfusion Ratio:**  
RBC:FFP:PLT 4:2:1

If < 3 hrs from delivery,  
give 1 gm TXA if not  
already given

Type and Screen if needed (*purple top*)  
- *supergas* ABG and MTP Labs:  
-Hgb/Hct, platelet count (*purple top*)  
-PT/INR, PTT, fibrinogen, D-dimer (*blue top*)  
-ABG with *supergas* (*heparinized syringe*)

**LAB RESULTS & ACTION:**

- If fibrinogen <300, give 2 pooled cryoprecipitate OR consider 2 bottles of Riastap (calculate remaining deficit)
- If waiting for cryo/Riastap, consider FFP if ongoing bleeding
- If INR >1.5, give 2 units FFP
- If platelet count <100K, give 1 apheresis platelet unit
- If iCa is <1.0, give 10 mL 10% CaCl<sub>2</sub> slow IV push
- If K<sup>+</sup> is >5.5, give 50 mL D<sub>50</sub> (1 amp) with 10 units R<sub>insulin</sub> IV, consider slow IV push 10 mL CaCl<sub>2</sub> or sodium bicarbonate

**Initial MTP Cooler**  
4 units RBC  
2 units FFP  
MTP lab tubes  
1 pool Cryo starts thawing

Cryo ready in 30'

Anticipate ongoing bleeding?

**DEACTIVATE MTP**

- Normalization of lab values
- No evidence of ongoing bleeding.
- Call Blood Bank at 63648

**Supergas ABG + MTP Labs every 30' by Lab Processor** (*purple top, blue top, heparinized syringe*)

**MTP coolers**

- 4 units RBC + 2 units FFP + MTP Lab Panel
- 1 apheresis platelet unit\*
- 2 pooled cryoprecipitate units\* (ready in 30')

\*Every other cooler unless modified by request