

# **Level 1 Trauma – COVID Process**

## **Foothills Medical Centre**

### **Calgary, Alberta**

ILI/COVID screening added



EMS Patch Form - FMC ED – <u>MUST remain on patient chart</u>				
<input type="checkbox"/> Ground <input type="checkbox"/> STARS <input type="checkbox"/> Fixed wing EMS unit#: _____	Date/Time: _____ ETA: _____ Bed Number: _____ RNs assigned: _____ MD assigned: _____	Unknown LABEL or ID here Name/#: _____ Age: _____ <input type="checkbox"/> Male <input type="checkbox"/> Female		
<b>Patient Complaint:</b> <input checked="" type="checkbox"/> <b>ILI/COVID confirmed or suspected</b>				
Temp: _____ HR: _____ RR: _____ BP: _____ / _____ O <sub>2</sub> Sats: _____ O <sub>2</sub> Rate: _____ BGL: _____ GCS: _____				
<b>STEMI</b>	Onset of Chest Pain Date/Time: _____ STEMI <input type="checkbox"/> Yes <input type="checkbox"/> No			
<b>STROKE</b>	STAT Stroke Activation must occur when: <input checked="" type="checkbox"/> LSN ≤ 4.5 hours ago      Last Seen Normal Date/Time: _____ AND <input checked="" type="checkbox"/> <u>ONE</u> or more <b>BOLD</b> findings			
<b>BOLD findings</b>	<b>LOC</b> <input type="checkbox"/> Responds to Pain <input type="checkbox"/> Unresponsive <u>LOC</u>	<b>Speech</b> <input type="checkbox"/> Incomprehensible/ Mute <u>APHASIC</u>	<b>Arm Strength</b> <input type="checkbox"/> Rt or Lt Falls Rapidly <u>PLEGIC</u>	<b>Leg Strength</b> <input type="checkbox"/> Rt or Lt Falls Rapidly <u>PLEGIC</u>
<b>LAMS Score</b>	<input type="checkbox"/> LAMS _____			
<input type="checkbox"/> If YES to both → Page Stroke Team @12991 with the following: “STAT!Stroke __ yrs M/F LSN __ : __ (time) Plegic / Aphasic /LOC; LAMS _ ETA __ min Bed __” <input type="checkbox"/> If not a STAT Stroke, page Stroke Team @ 00379				
<b>TRAUMA</b>	Level One Trauma Activation must occur when: <input checked="" type="checkbox"/> temperature ≤30 °C OR <input checked="" type="checkbox"/> any of the following criteria in presence of known or suspected traumatic mechanism			
<input type="checkbox"/> BP<90 or HR>120 <input type="checkbox"/> Any Penetrating Trauma to head, neck or torso <input type="checkbox"/> GCS ≤ 8 <input type="checkbox"/> Amputation proximal to ankle or wrist <input type="checkbox"/> Intubated <input type="checkbox"/> Transfusion of Blood Products en route or in ED				
Activate Level 1 by paging 08855 within 20 min, or sooner, of ETA: <i>VS not given? BP N/A; if CPR? use BP CPR</i> “__, Level 1; <b>Penetrating or Blunt or Burn or Hypothermia</b> ; BP __ / __ <i>and/or</i> HR __; ETA __ mins – TTL call 42999”				
<b>Level 1 page @:</b>	TTL phoned back @:	TTL cell phone call @:	Gen Sx back-up paged @	Overhead Page @
<b>CTAS 1</b>	Page CTAS 1 MD for all CTAS 1: “CTAS1 ETA __; CALL Triage 42900; Bed __” Page Secondary Physician CTAS 1 MD for all CTAS 1 ( <b>exception Stroke/STEMI</b> ): “2 <sup>nd</sup> MD; ETA __; with CTAS1 MD __; Bed __”			

RNs to fill out CTAS 1 paging script when CTAS 1 MD required

Unit Clerks to use paging script when paging CTAS 1 MD



Burn or Hypothermia options added to Level 1 text page

If no VS provided in EMS patch use **BP N/A**

If VS absent and CPR in progress use **BP CPR**



Trauma Pre-Brief Checklist
<b>Situational Report</b>
<input type="checkbox"/> What do we know?
<input type="checkbox"/> What is the plan?
<input type="checkbox"/> Supplies & equipment ready?
<input type="checkbox"/> Medications prepared?
<b>Resource Management</b>
<input type="checkbox"/> Level 1 activated?
<input type="checkbox"/> Who is the Team Lead?
<input type="checkbox"/> Primary survey delegated?
<input type="checkbox"/> Does everyone have lead, PPE & name tag?
<input type="checkbox"/> Introductions: name & role
<b>Consider MTP – assess patient's *ABC score upon arrival</b>

**\*ABC criteria (2 or more):**

- penetrating trauma
- ED SBP < 90
- ED HR ≥ 120
- positive FAST

Trauma EXIT Checklist
<b>Airway</b>
<input type="checkbox"/> Secure?
<input type="checkbox"/> Back-up?
<b>Breathing</b>
<input type="checkbox"/> Effective ventilation?
<input type="checkbox"/> Adequate oxygen supply?
<input type="checkbox"/> BVM, Mask, OPA?
<b>Circulation</b>
<input type="checkbox"/> Patent IV/IO access?
<input type="checkbox"/> Blood, MTP?
<input type="checkbox"/> Defibrillation pads?
<b>Drugs</b>
<input type="checkbox"/> Analgesia, Sedation, Paralytics?
<input type="checkbox"/> Vasopressors?
<b>Equipment</b>
<input type="checkbox"/> Level 1 infuser?
<input type="checkbox"/> IV pressure bags?
<input type="checkbox"/> Transport monitor on with fresh vital signs?
<input type="checkbox"/> Equipment disconnected from wall?
<b>Orders</b>
<input type="checkbox"/> Imaging and Labs entered?
<b>Plan</b>
<input type="checkbox"/> Has the Team Lead been identified?
<input type="checkbox"/> Destination – DI, ICU, OR?
<input type="checkbox"/> Return Destination – ED, OR, ICU, Angio?

## FMC Massive Transfusion Protocol (MTP) for the Trauma Patient

1. Identify the bleeding patient → consider the **ABC Score**

**ABC Score:**

- 1 point for each: penetrating trauma, BP < 90, HR ≥ 120, positive FAST
- If score is ≥2 activate MTP
- Activation of the MTP is always possible at the discretion of the physician

2. Call Transfusion Medicine (TM) @4-1367 to request MTP

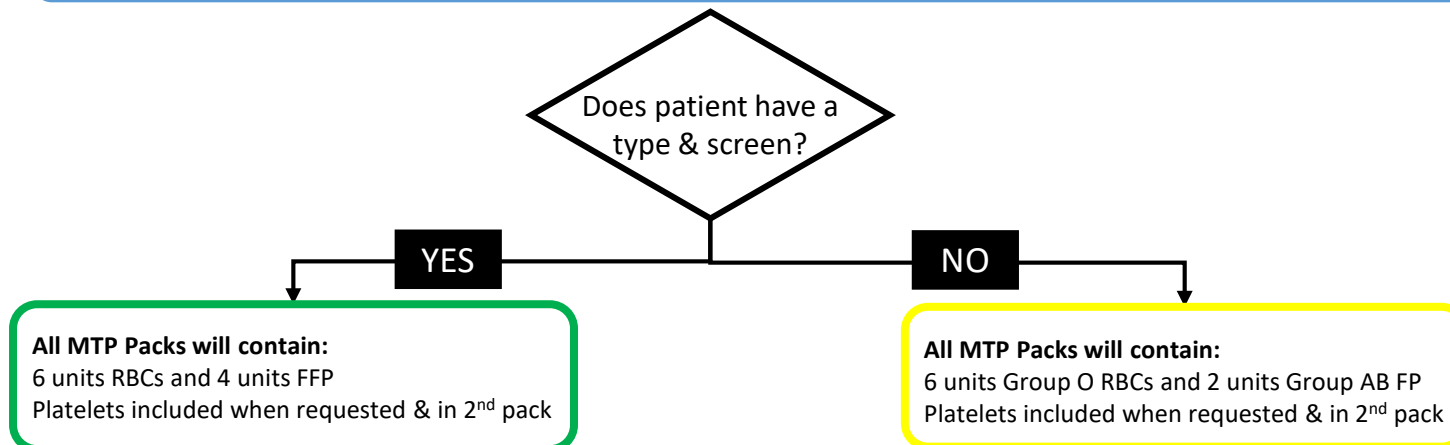
**Provide the following:**

- Patient Name
- Sex
- RHRN
- Location
- Ordering Physician

3. TM arranges MTP transport by porter to ED

**Requirements:**

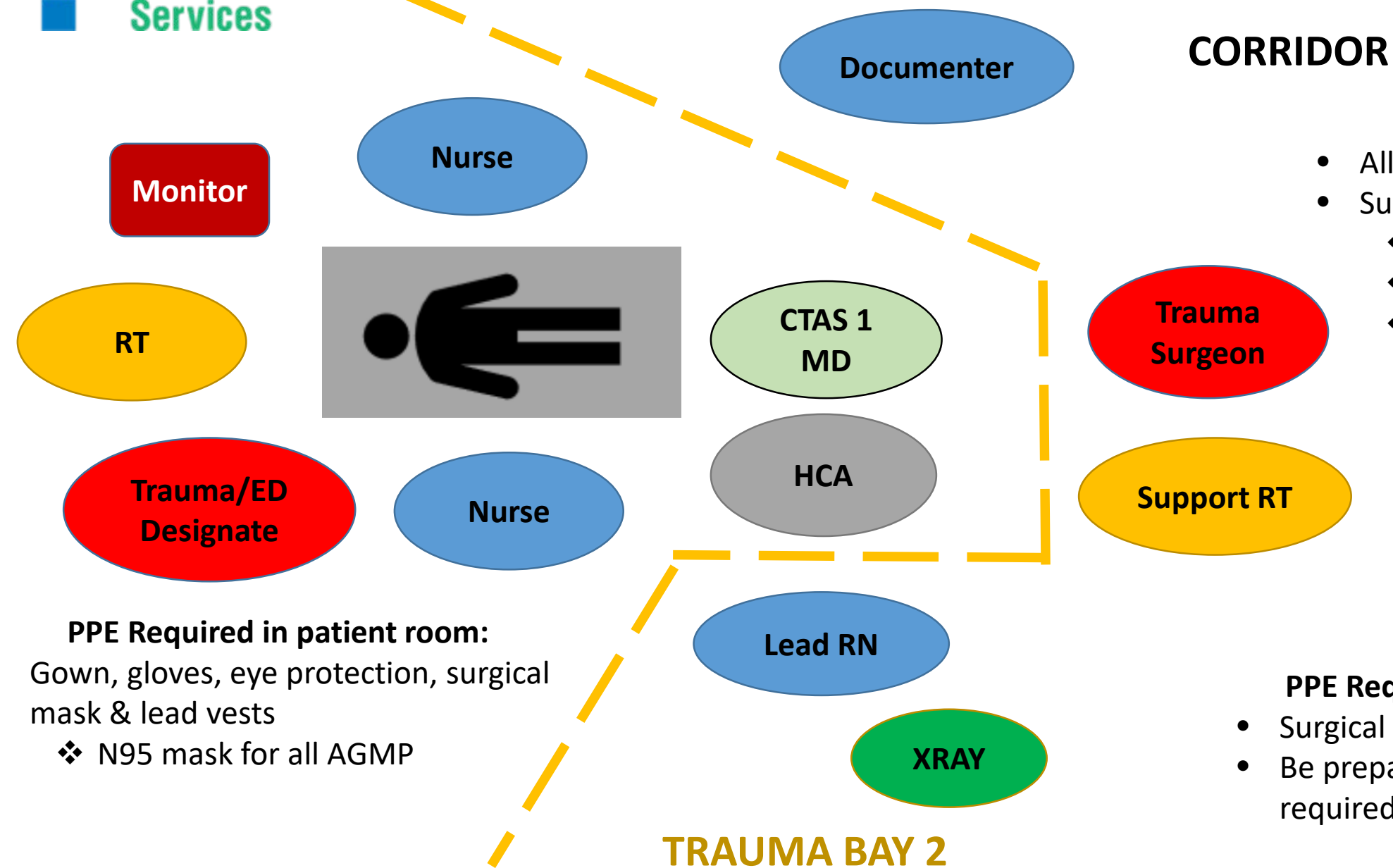
- 2 patent IVs → consider IO or CVC
- Minimize crystalloid infusions
- Send trauma labs early
- If history of anticoagulation, consider reversal agents
- Consider TXA if within 3 hours of injury



**Things to consider:**

- Use the level 1 infuser for RBCs and FFP
- Do not warm platelets
- Return unused MTP packs to TM
- MTP packs can be customized

# TB 1 TRAUMA TEAM "THE BIG 5"



## CARTS

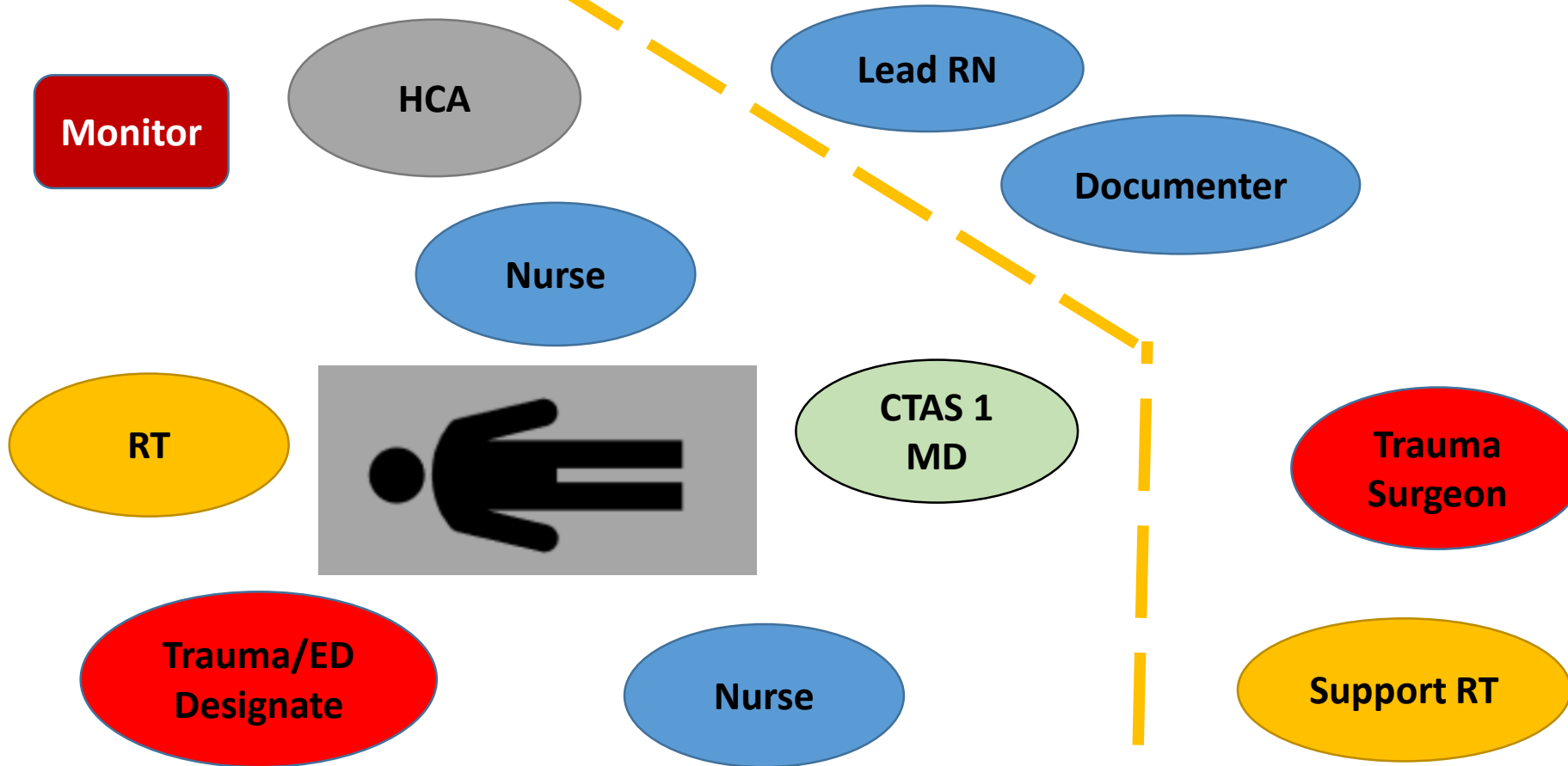
- All carts removed from TB
- Supplies found in:
  - ❖ TB 2
  - ❖ Central supply cart
  - ❖ Supply Room

- PPE Required in patient room:**
- Gown, gloves, eye protection, surgical mask & lead vests
    - ❖ N95 mask for all AGMP

- PPE Required in clean area:**
- Surgical mask & eye protection
  - Be prepared to don full PPE if required

# TB 3 TRAUMA TEAM "THE BIG 5"

## TRAUMA BAY 2



Monitor

HCA

Lead RN

Documenter

Nurse

RT

CTAS 1 MD

Trauma Surgeon

Trauma/ED Designate

Nurse

Support RT

### PPE Required in patient room:

- Gown, gloves, eye protection, surgical mask & lead vests
  - ❖ N95 mask for all AGMP

### CARTS

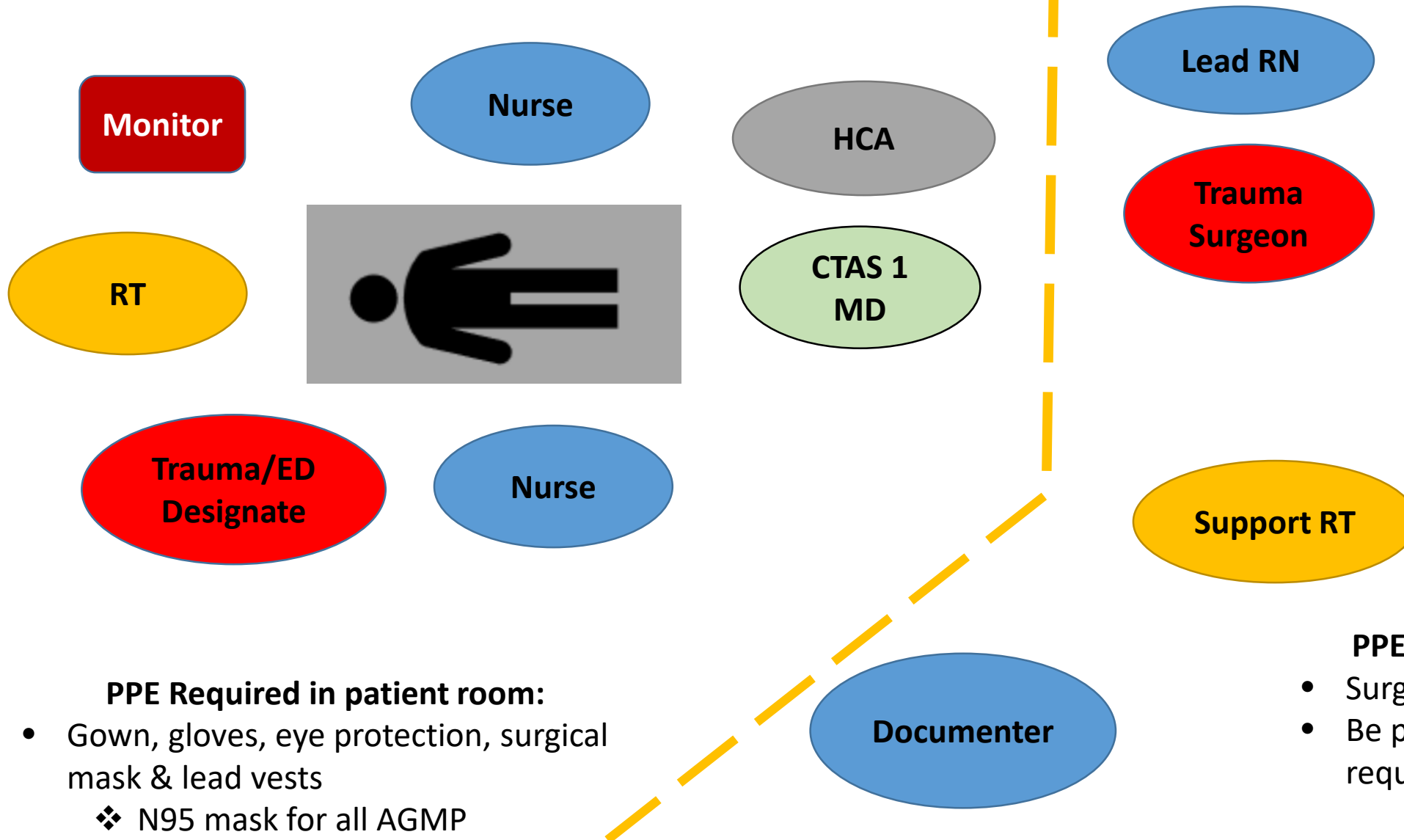
- All carts removed from TB
- Supplies found in:
  - ❖ TB 2
  - ❖ Central supply cart
  - ❖ Supply Room

### CORRIDOR

### PPE Required in clean area:

- Surgical mask & eye protection
- Be prepared to don full PPE if required

# TB 4 TRAUMA TEAM "THE BIG 5"



- CARTS**
- All carts removed from TB
  - Supplies found in:
    - ❖ TB 2
    - ❖ Central supply cart
    - ❖ Supply Room

## CORRIDOR

- PPE Required in patient room:**
- Gown, gloves, eye protection, surgical mask & lead vests
    - ❖ N95 mask for all AGMP

- PPE Required in clean area:**
- Surgical mask & eye protection
  - Be prepared to don full PPE if required

# Who is “THE BIG 5” & Why?

To reduce the risk of exposure to staff, the number of personnel at the bedside has been reduced to include only those required for direct patient care

Role	Responsibility
CTAS 1 MD – Team Lead	<ul style="list-style-type: none"> <li>• Self-identifies as team lead</li> <li>• Completes Pre-Brief checklist</li> <li>• Enters or delegates order entry</li> <li>• All orders communicated by team lead</li> <li>• Minimal hands-on patient care</li> <li>• Responsible for crowd control</li> <li>• Completes EXIT checklist</li> </ul>
RN – patient’s right side	<ul style="list-style-type: none"> <li>• Manual blood pressure</li> <li>• Prepare and administer medications</li> <li>• Ensure patent IV/IO access</li> <li>• Initiate Foley and OG only when ordered by Team Lead</li> </ul>
RN – patient’s left side	<ul style="list-style-type: none"> <li>• Attach cardiac monitor</li> <li>• Prepare for defibrillation when required</li> <li>• Administer blood or fluid through Level 1 Infuser</li> <li>• Ensure patent IV/IO access</li> </ul>
Trauma Designate (Trauma Fellow or Trauma Resident)	<ul style="list-style-type: none"> <li>• Communicate arrival to Team Lead</li> <li>• Complete primary and secondary survey</li> <li>• Assist with tasks as directed by the Team Lead</li> </ul>
Primary RT	<ul style="list-style-type: none"> <li>• Positioned at the head of bed</li> <li>• Assists with intubation and tasks as directed by Team Lead</li> <li>• May request assistance from Support RT if required</li> </ul>



# Staff Outside the Trauma Bay:

Role	Responsibility
Health Care Aide * In full PPE	<ul style="list-style-type: none"> <li>• Bring carts and buckets to the bedside</li> <li>• Equipment set-up</li> <li>• Attach transport monitor to trauma stretcher</li> <li>• Remove patient's clothing and apply warm blankets</li> <li>• After task completion, move back to yellow line</li> <li>• Accompany patient to OR, DI or ICU</li> </ul>
Documenting RN	<ul style="list-style-type: none"> <li>• Document arrival of services on Trauma Record</li> <li>• Remind Team Lead to complete pre-brief checklist</li> <li>• Start 'up-clock' upon patient arrival</li> <li>• Call DI as necessary</li> <li>• Remind Team Lead to complete EXIT checklist</li> <li>• Accompany patient to OR, DI or ICU</li> </ul>
Lead RN	<ul style="list-style-type: none"> <li>• Same role as in A-pod Rooms: runner for supplies, medications, assist with crowd control</li> <li>• Communicates and assists documenting RN as needed</li> </ul>
Trauma Surgeon	<ul style="list-style-type: none"> <li>• Communicates arrival to Documenting RN and Team Lead</li> <li>• Discusses case with Team Lead and assumes leadership if required</li> <li>• Determines patient disposition and accompanies patient to OR, DI or ICU</li> </ul>
CTAS 1 MD - Secondary	<ul style="list-style-type: none"> <li>• Communicates with CTAS 1 MD and assists if required</li> <li>• If not required, will remain behind the yellow line in the clean area</li> </ul>
Support RT	<ul style="list-style-type: none"> <li>• Processes blood gases</li> <li>• Equipment runner for primary RT</li> <li>• Assist primary RT in isolation area as required</li> </ul>