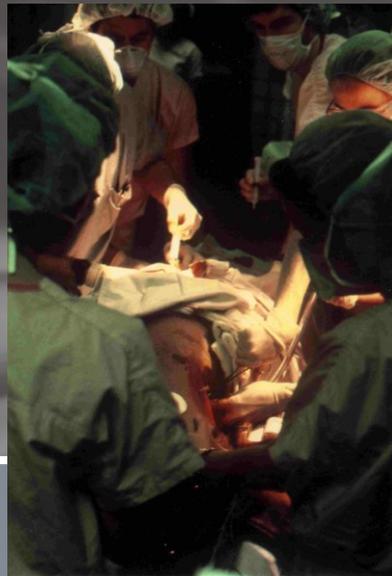


Trauma Team Response

“If You Build It,
They *Will* Come”



Why have a trauma *team* response?

Organization and delivery of resources optimizes the episodic critical care of the injured patient. This can be accomplished by:

Pre-organization based on need

- team activation triggers/guidelines
- pre-identified and defined members/roles
- accessible and functional equipment & supplies
- specifically designed forms (trauma flow sheet)
- notification procedures

We know critical care is best delivered in a pre-organized team framework. Ideally, that process involves identification of the type of team needed and the components to make the team response effective:

- When the team should be mobilized
- What types of team members are required
- The location and configuration of the response
- Responsibilities and tasks of the team members
- Organization of required equipment, supplies and medications used during the response
- Documentation forms, orders, checklists, policy/procedures and references
- Methods for notifying team members to respond

Trauma Team

What's different about a Trauma Team?

- Potential **Surgical** focus
- **Early** identification and **intervention** of life-threatening injuries
- **Prioritized** coordination of care
- **Early** recognition of need to **transfer** definitive care
- **Stabilization** interventions
- Documentation "to go"
- COBRA/EMTALA procedures



Consider the differences that make developing a Trauma Team different than other types of team responses

Key to this is the early identification of life-threatening injuries-CHI with GCS < 8, hemopneumothorax, tension pneumothorax, internal and/or external bleeding, intra-abdominal injuries, pelvic fractures

Documentation to go includes Trauma Flow Sheet, EMS report, imaging, H&P, labs

The Goal

Rapid assembly and immediate provision of:

Multidisciplinary personnel and equipment

ATLS assessment/intervention

Coordinated, interdependent & standardized
approach

Optimal communication

Timely treatment, stabilization, and transfer
(if unable to provide definitive care)

Components

Trauma Team – defined roles

+

Trauma Activation Criteria - known and accessible

+

Activation/Notification Procedures

+

Equipment/supplies/forms-organized/easily accessible

+

Practice

+

The review of timeliness and appropriateness of care

The Trauma Response consists of these specific components and the successful process of “linking” them together locally.

Trauma Team

- Who
 - Activates? EMS, RN, Physician, non-physician provider. Define and publish.
 - What are our resources?
 - Team composition will vary with hospital size, available resources and staff
 - Equipment – organized and readily available with team members knowledgeable in the setup and use.
 - When
 - Early notification allows for team to assemble prior to patient arrival.
 - Why
 - To provide **timely** assessment, identification of life-threatening injuries, and treatment, stabilization and transfer.
- ✓ Communication with EMS is critical. EMS must know what the activation criteria is and be able to “activate” the trauma team from the field in order to provide time for team preparation.

These are some hallmark questions to ask when developing your Trauma Response procedures. The answers to these specific questions provide for design of the process that will be most effective.

You cannot depend on resources you don't have, so each facility's procedures are dependent on identification and organization of its resources with design of procedures putting them to best use.

EMS should be considered the “first phase of care”, an essential part of the local Trauma Team Response and must be knowledgeable about local Trauma Team Activation criteria. They must understand and be active in early identification of the trauma patient, provide early and effective communication to the hospital so staff may act on that information and activate the Trauma Team Response.

Pre-organized and pre-assembled Trauma Team members ready to greet the trauma patient on arrival at the hospital provide more effective care.

Trauma Team

- How will we notify Trauma Team members to respond?
 - Overhead pages
 - Beepers
 - After-hour call tree

- In house and out-of-house staff
 - Clear understanding of who contacts whom and when

- At what point do we need more than the trauma team? What then?
Define it

Develop a method for notifying Trauma Team members consistent with the available local communication capabilities.

Trauma Team activation “after hours” may involve calling in specific staff. Depending on the time of day, Trauma Team activation may involve utilizing staff currently in-house and available. Either way, the situation and whether the patient meets activation criteria determines Trauma Team activation, NOT time of day or whether staff were “already here so we didn’t have to call anyone in”.

When does a facility need to activate MORE than its Trauma Team? At what point does a facility need to activate its Disaster/Emergency Response Plan?

Each facility needs to determine the base number of simultaneous patients or critical patients it is truly capable of providing effective care to (in many cases it’s 2-4 patients, either arriving at the same time or critically ill/injured). Once that number of multiple or very sick patients has been determined, be sure it’s addressed in the Disaster/EP and all staff are educated.

An effective Trauma Team Response process allows staff to improve their delivery of effective care to one patient at a time . This improved “patient-by-patient” proficiency of care is an effective method for increasing quality of care for multiple patients, enhancing Disaster/EP capabilities.

“An effective trauma system is the backbone of the Disaster/EP system”*

Trauma Team Members

- Team Leader: Surgeon, Emergency Physician, Mid-level/non-physician provider
- Anesthesia, CRNA, OR Team
- Emergency/Other RNs (x 2-3)
- Charge/House Nursing Supervisor
- EMTs stay/assist
- Respiratory therapy
- XRAY, CT, Radiologist
- Lab, Blood bank
- Documentation/Scribe
- LPN, Aide, HUC, Support Staff
- Social Services, Chaplain
- Other Medical Specialties if/as available: Intensivists, ENT, Ortho, Neuro, Pediatricians, etc.



Specific members of your Trauma Team depend on the professional resources you have available

Building your Trauma Team

Identify who has authority/responsibility for team activation and make certain this is well documented and communicated in advance

Identify what standard actions need to be accomplished during your activations

Identify which role is going to do it, assign in advance

How many people are to be in the room to meet these action goals?

Where do they position themselves?

Procedure:

- The charge nurse, House Supervisor or designee will assign roles if possible prior to patient arrival. Roles will be assigned as described below if enough staff is available.
- If staff is not available, roles will be assigned and adapted as indicated by the charge nurse and/or provider.

Guidelines for Roles and Responsibilities

<u>Role</u>	<u>Staff/Type</u>	<u>Duties</u>	<u>Position</u>
<u>Airway:</u>	RT/EMT	Ventilation, Assist with intubation Keep patient informed	Head of Trauma bed
<u>C-Spine:</u>	EMT	Maintain c-spine stabilization Alert MD of any change in LOC	Head of Trauma Bed
<u>IV/Procedures:</u>	RN	Insert large bore IV Remove clothing from left side of body, Neuro assessment, assist with procedures Intake/output	On patient LEFT side
<u>Provider Assistant:</u>	RN	Assist with procedures as directed	On patient LEFT side
<u>Vitals & Recorder:</u>	LPN/EMT	Take, monitor and record vitals	spot where monitor and pt can be visualized
<u>Scribe:</u>	EMT/LPN/RN	Record case on white board	White board
<u>IV/Med:</u>	RN	Insert large bore IV, draw labs Remove clothing from right side of body Attach/observe cardiac monitor Prepare/administer medications Foley as appropriate	On patient RIGHT side
<u>Runner:</u>	Ward Clerk/Secretary/EMT	Retrieve equipment, supplies, Make copies, assist with ER traffic control, Answer/make phone calls	ED Desk
<u>Team Captain</u>	PROVIDER:	Manage/direct team efforts, AIRWAY, Initiate interventions, care	Head of patient as indicated

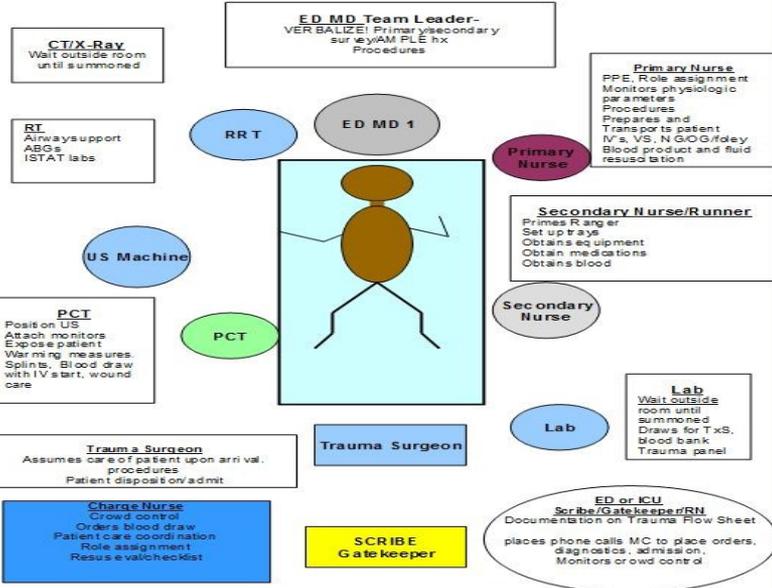
This busy diagram illustrates a very basic team, its members, their identified duties and physical positions in relation to the patient.

Your facility's team may look different, but this general template can serve as a guide for developing your team composition and role responsibilities.

Be sure to include your facility's available team members.

Educate staff and provide the guide for all to easily refer to during a Trauma Team Response.

RESUSCITATION TEAM POSITIONING



LAB and XRAY wait outside room

TRAUMA TEAM ROLES - Guidelines

Airway: RT/EMT

Ventilation, assist with intubation,
keep patient informed

C-Spine: EMT

Alert physician of any
change in LOC

Scribe: EMT/LPN

Record case on white board

IV/Meds: RN

Insert large bore IV, remove clothing
from right side of body,
attach/observe monitor, access crash cart
Prepare/Administer Meds
Foley as appropriate

IV /Procedures: RN

Insert large bore IV, remove clothing
from left side of body, Intake/Output
neuro assessment, assist w/procedures PRN

Patient

Provider Assist: RN

Assist with procedures as directed

Runner: EMT/CNA/Secretary

Retrieve equipment/supplies, assist with
ER traffic control, answer phone

Provider

Vitals & Recorder: LPN/EMT

Takes serial vitals and records on Trauma Form
Other duties as needed



Other Trauma Team Roles

- Lab, XRAY, RT
- Family Support
- Team Support
 - Child Care
- Next shift needs
- Coordinate the rest of the Department & Hospital



There are other Trauma Team roles to consider (again based on your facility's available resources) that can meet important needs.

Depending on facility size and scope of the situation, consideration may also need to be given to identifying resources for coordinating the rest of the Emergency Department, subsequent shifts and the rest of the hospital.



Plenty of help, lots of resources and all of the necessary equipment at our fingertips!
We're a well-oiled machine!

THIS IS GREAT!!!



Here is the **reality** of the Trauma Team members, resources and equipment we may actually have available.

Crew Resource Management

- Pre-designation of roles
- Does the team communicate and validate communication before and after arrival?
- Can the team prioritize?
- Can the team adapt to different patient scenarios?
- Is everyone on the team in touch with what is going on and distributing the workload?
- Is there cross checking of data and activities as well as performance monitoring?
- Are members willing to challenge each other in a reasonable way and do they have conflict resolution skills?

Effective teams don't just happen. Becoming a team takes good leadership, preparation, definition, commitment and PRACTICE. These are concepts to consider and think about when organizing, developing and educating your staff in the realities of becoming a team.

Team Leader

- Studies show that the presence of a single identified trauma resuscitation team leader leads to a better secondary survey, ATLS adherence, and team coordination.

Townsend RN. Et.al. ATLS-based videotape trauma resuscitation review: education and outcome 1993

Trauma and Teams

- Nurses, physicians, and EMS are educated in isolation of one another
 - We all learn the same ABCs of trauma care but, we learn to do so as if we are alone
- Trauma patient care is delivered by a team of these individuals who know what they are doing but may not know what the other members are doing.
- “Situational awareness” is especially important in a task-oriented structure
- Models have been developed to teach teamwork

We all have education, experience and background preparation. Melding those varying skills, personality styles and leadership abilities into effective Teamwork CAN be challenging!

Team Leader

- Leadership matters: effective leadership is a powerful combination of well-executed knowledge, direction and approach
- Understanding of the roles & responsibilities
- Effective communication
- Cooperation
- Organized
- Leads the pre-arrival briefing/post debrief

Effective team leadership is based on experience and wise application of calm, collected, reasonable, well-prioritized direction. Even inexperienced staff will perform well if effectively led and directed.

Teams do not perform well when leadership is fragmented, chaotic and disorganized.

More importantly, **patients** do not do well if care is fragmented, chaotic and disorganized.

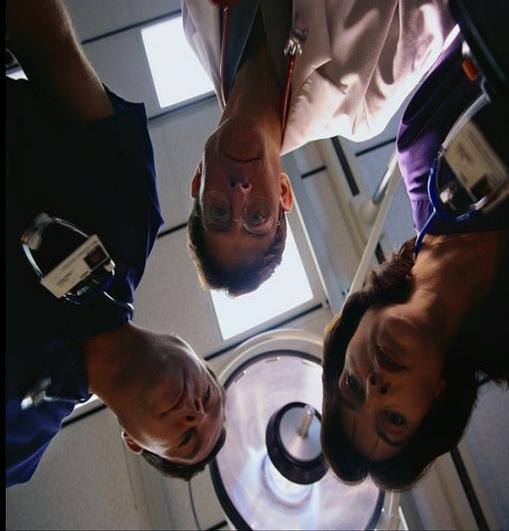
Working as a Team

- Assigning roles BEFORE patient arrives
- Use closed-loop communication: once asked to do something, team member repeats back to clarify & ensure correct info
- Only one person talking at a time.
- Delegate task to individual, not to everyone
- Challenge culture; anyone on team may validate decisions or provide input into care
- Communicate plan to whole room/team
- Practice on EVERY ED patient

These tips will assist staff in becoming a more effective team.

Trauma Team Pitfalls

Forgetting the
PATIENT'S
Perspective



It's important to remember the **PATIENT** as we pay so much attention to our available resources, organizational structures, technology, tasks and procedures!

Trauma Response

- Choices made based on each facility's resources, patient volumes and needs; be realistic
- ? Different levels of activation/response or "All Hands on Deck" single response structure: be realistic
- Determining factor: ? Surgeon available to direct trauma patient resuscitation & surgical services (OR, Anesthesia)

As you develop your Trauma Team Response plan, remember to BE REALISTIC and use what you HAVE, not what you'd LIKE TO HAVE.

Should you develop different levels of Trauma Team Response? (larger volumes of trauma patients and larger pool of resources)

OR

Are your resources such that a single level of response will be most effective (fewer trauma patients, fewer resources)?

Can you offer different levels of response? Do you have a surgeon to direct trauma care or surgical services to provide operative intervention?

ALL of the time? SOME of the time? NEVER?

Activation of team response levels based on
pre-determined field and hospital trauma triage criteria

KISS: Keep it Simple



Whatever you do, to be successful, design it simply and
DO NOT OVER-COMPLICATE your procedures

MT Field Trauma Decision Scheme/Trauma Team Activation Criteria

Step 1. Physiologic Criteria; good predictor of severe injury

Obtain Vital Signs and Level of Consciousness ASAP

Systolic BP < 90

Glasgow Coma Scale \leq 13, decreased responsiveness

Severe respiratory distress or need for ventilatory support,
Respiratory Rate < 10 & > 29

< 20 infant

Pediatric; poor skin perfusion (color, cool extremities, weak distal pulses)
Heart rate;

child < 1 yr; < 60/min or > 130/min

child 1-8yr; < 80/min or > 120/min

EMS discretion

If "Yes" to any of the above, activate/contact
Medical Control.

If "No" go to step 2

Montana Field Decision Scheme/Trauma Team Activation Criteria (consistent with CDC Field Triage Decision Scheme, with some revisions for Montana setting) to be utilized in the pre-hospital setting to contact medical control, advise hospital of patient status and advise Trauma Team Activation and/or utilized in the hospital to identify patients in need of Trauma Team Activation.

CDC Criteria have been developed to facilitate decisions to transport trauma patients to Trauma Centers. The rural nature and generally long distances between healthcare facilities in Montana necessitates using the same criteria for providing trauma response for all identified trauma patients.

When there ARE multiple healthcare facilities in close proximity to the scene, patients meeting these criteria should preferentially be transported to Trauma Facilities.

Physiologic Criteria provide a good predictor of severe injury and should be at the top of your activation criteria.

Step 2. Anatomic Criteria

May have "normal" VS & GCS but still
have sustained severe injuries

All penetrating injuries of head, neck, torso and
extremities proximal to knee/elbow

Chest wall instability or deformity (e.g. Flail Chest)

Paralysis

Pelvic fractures/instability

Open or depressed skull fractures

2 or more proximal long-bone fractures

Crushed, de-gloved, mangled or amputated extremity

Major burns

Hypothermia

If "Yes" to any of the above, Activate/Contact Medical Control.

If "No" go to step 3

Anatomic Criteria

Patients with these injuries may not meet "Physiologic" criteria, have "normal" Vital Signs and GCS, but still have sustained severe injuries

* Major Burns has been moved up to the Anatomic Criteria section for Montana.
CDC Triage Criteria state

" Burns without traumatic mechanism; triage to burn center"

" Burns with traumatic mechanism; triage to trauma center"

Montana has no current burn centers, so "Major Burns" was moved to Anatomic Criteria for Trauma Team Activation

Hypothermia has been added for Montana due to the need for mobilization of facility resources

Step 3. Mechanism of Injury Criteria: CONSIDER

Do not always produce severe injury, but certainly CAN
so use to CONSIDER activation

Motor Vehicle Crashes

Ejection

Death of occupant in same vehicle

Intrusion, including roof; > 12 inches, occupant
compartment

Extrication time > 20 minutes

Auto vs Pedestrian/bicyclist thrown, run over or
significant impact

Contact Medical Control, advise of mechanism of injury
for early consideration of activation

It's important that TTA does not occur on MOI criteria alone, as *over-triage can result.
Assembling trauma team members based on MOI criteria alone repeatedly for patients
who turn out to have insignificant injuries will result in team "burn-out", and reluctance
to respond, undermining TTA process.

All TT Activations should be evaluated for appropriateness, *overtriage/undertriage and
activation criteria broadened or tightened accordingly.

***Overtriage:** Activation w/discharge home from ED

OR, Using mechanism/co-morbidities to activate for patient not meeting clinical
(Physiologic/Anatomic) criteria and patient discharged to home

***Undertriage;** No activation and patient transferred to higher level of care, admitted to
ICU/OR or died

OR no activation when patient met Physiologic/Anatomic criteria

3. Mechanism of Injury Criteria (CONTINUED):

Falls; Adult > 20 ft

Children > 10 ft or 2-3x height of child

Horse/Animal rollover/ejection

Motorcycle/Snowmobile/ATV crash > 20MPH

Contact Medical Control, advise of
mechanism for early consideration of
activation

If "No", go to Step 4

*MOI Continued:

Horse/animal rollover/ejection added here for Montana

Snowmobile/ATV crash > 20 MPH added here for Montana w/CDC motorcycle criteria

4. Special Considerations: Comorbidities; Utilize to CONSIDER activation

May not meet physiologic, anatomic or mechanism criteria but underlying issues create higher RISK for severe injury

Older Adult; Risk of injury increases > 55 years

SBP < 110 MAY represent shock after age 65 years

Low impact mechanisms (e.g. ground level falls) MAY result in severe injury

Child Age < 15 yr

Anticoagulation/Bleeding disorders (Coumadin/Warfarin, Plavix, Pradaxa, etc.)

Patients with head injury are at high risk for rapid deterioration

Time sensitive extremity injury (Open fx, major joint dislocation, fx with neurovascular compromise, etc.)

Pregnancy > 20 weeks

Multiple patient situations

EMS/Provider judgement

Contact Medical Control, advise of comorbidities for early consideration of activation

CDC Field Triage Decision Scheme

The screenshot shows a web browser window displaying the CDC website. The browser's address bar shows the URL "http://www.cdc.gov/od/ohrt/trauma/". The page title is "CDC Field Triage Decision Scheme". The main content area features a navigation menu on the left with categories like "Injury Home", "Field Triage", and "Injury Quick Links". The main heading is "Field Triage Decision Scheme" with a sub-heading "Injury Home > Injury Response". Below this is a photograph of two medical professionals in blue scrubs attending to a patient in a stretcher. The text below the photo reads "Decide to Save Lives" and "Field Triage Decision Scheme: The National Trauma Triage Protocol". It explains that each year, approximately 800,000 EMS providers make on-scene triage decisions, and that CDC-supported research shows a 25% lower risk of death when care is provided at a Level 1 trauma center. A call to action button says "To order these materials at no cost, click here". Below this is a "Materials" section with a list of resources.

Search Favorites

CDC Home
Centers for Disease Control and Prevention
Your Online Source for Credible Health Information

A-Z Index A B C D E F G H I J K L M N O P Q R S T U V W X Y Z #

Field Triage

Injury Home
Home & Recreational Safety
Injury Response
Acute Injury Care
Alcohol Screening
Field Triage
Blast & Explosion Injuries
Mass Casualties
Motor Vehicle Safety
Traumatic Brain Injury
Violence Prevention
A-Z Injury Topics

Injury Quick Links
About the Injury Center
Data & Statistics
Research & Funding
Podcasts
Pressroom
Publications
State Programs
Director's View Blog

Injury Home > Injury Response

Field Triage Decision Scheme



Decide to Save Lives
Field Triage Decision Scheme: The National Trauma Triage Protocol
Each year, the approximately 800,000 emergency medical services (EMS) providers have a substantial impact on the care of injured persons and on public health in the United States. The profound importance of on-scene triage decisions made daily by EMS providers is reinforced by CDC-supported research that shows that the overall risk of death was 25 percent lower when care was provided at a Level 1 trauma center than when it was provided at a non-trauma center.

The "Field Triage Decision Scheme: The National Trauma Triage Protocol" (Decision Scheme) educational initiative was developed to help EMS providers, EMS medical directors, trauma system leadership, and EMS administrators learn about and implement the revised 2006 Decision Scheme. The Decision Scheme is intended to be the foundation for the development, implementation, and evaluation of local and regional field triage protocols.

As part of this initiative, CDC has developed easy-to-use materials for EMS professionals. Each of these materials provides information that EMS professionals can use to take an active role in improving the health outcomes for persons injured in their communities.

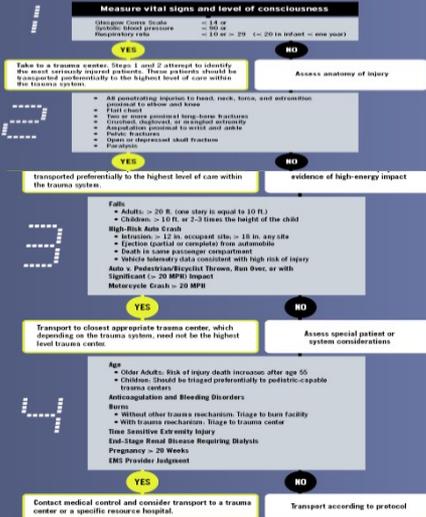
To order these materials at no cost, click here

Materials

Sent Items - Mi... RE: Peds equip... Trauma Team Trauma Team ... The Trauma Te... CDC - Field Tria... Address

CDC Field Triage Decision Scheme materials can be found on the CDC website

FIELD TRIAGE DECISION SCHEME: THE NATIONAL TRAUMA TRIAGE PROTOCOL



When in doubt, transport to a trauma center.
For more information, visit: www.cdc.gov/FieldTriage

Activation Criteria Pitfalls

- **Long lists with too many/too broad criteria**
 - Will be ignored
 - Will return to "discretionary" activations only
- **Duplicate criteria:** confusing
- **Not establishing clear authority to activate**

Be aware of the organizational pitfalls that can derail effective use of TT Activation Criteria.

Activation Criteria Pitfalls

- Criteria not known to/accessible by all -
- Where are they? Posted? Buried? Lost?
- No periodic review/evaluation/revision of criteria:
 - review all activations to be sure criteria work
 - review non-activations for appropriateness
 - revise your criteria to fix what's not working

Activation Criteria Pitfalls

- **Too many Scores;** hard to calculate

DELETE Revised Trauma Score for TTA:

- Gained popularity as field trauma triage method for assessing patient severity
- Well-established predictor of MORTALITY
- Lack of primary evidence supporting use as primary triage tool & as predictor for outcomes other than mortality

Complex, difficult to use in field

- **ONLY** score to use is the GCS
AVPU too limited/need evaluation over time

Activation Criteria Pitfalls

- **Expecting EMS to “activate” instead of “communicate”**
 - “We didn’t activate because EMS did not tell us to”
- **EMS unfamiliar with or does not know the Activation Criteria**
- **Lack of stakeholder involvement/buy-in:**
 - EMS = poor/no hospital preparation
 - ERPs = return to discretionary activations only
 - ER RNs = lack of defined role

Once again, while it is essential that EMS is knowledgeable in the Trauma Team Activation criteria and uses it to consistently notify the hospital early in the call to maximize advance preparation for the trauma patient, EMS is NOT responsible to activate the hospital team.

As EMS and hospital staff begin to work more closely together, establishing trust and effective communication, notification from the field that EMS is caring for an injured patient who meets activation criteria will result in appropriate and effective activations. It is important staff and providers recognize it is their decision to activate the team and assemble their resources whether EMS “tells them to” or not.

An important part of Performance Improvement is the process of reviewing all activations for appropriateness (including communication), making sure EMS & the hospital are working together and identifying opportunities for improvement.

If any of the “links” in the process are not fully engaged or participating, it’s important to find those reasons and fix them.

Activation Criteria Pitfalls

- Not activating when patient meets physiologic and/or anatomic criteria
 - = Under triage
- Using mechanism of injury and co-morbidities without clinical indications of patient status to activate
 - = Over triage
- Not addressing lack of activation when indicated

In order to keep Trauma Team Activation effective, both Undertriage and Overtriage need to be tracked. Not activating when we should and activating when we don't need to can both undermine the process quickly. If criteria to activate aren't working, they need to be revised.

What if we have criteria but are not consistently activating?

- Look at reasons:

Criteria too complex/lengthy/confusing?

Too many over-triage activations?

Not enough physician buy-in?

Not enough "trust" w/EMS reports for accuracy?

EMS not playing?

Not enough administrative support?

It's important to identify reasons for not activating when a patient meets our criteria and address those reasons.

Levels of Activation Response

Larger Facilities with more patient volumes & resources

(Level I, II, III, MT Regional/Area):

Three levels:

- Trauma Alert/Full: Activation of full team w/immediate response of: surgeon, OR crew, Anesthesia & time of response
- Trauma Standby/Partial: Activation of portion of team w/ secondary response of surgeon, expected time of response longer
- Trauma Consult/Evaluation: General surgeon to examine patient, time not specific

Trauma Team Activations may be implemented in different levels, based on volumes of patients and the size/resources of the facility.

Activation Response

Level III/IV (Area/Community)

Two Levels:

- Trauma Alert/Full: Activation of full team w/immediate response of: surgeon and OR/Anesthesia if available, time-specific
- Trauma Standby/Partial: Activation of portion of team; may not require calling in staff not currently in the hospital

ACS Level III/IV/Montana Area or Community Trauma Hospitals may utilize two levels of Trauma Team Activation

Activation Response

Level III/IV (Community/Trauma Receiving Facility)

One Level:

- Trauma Team Activation: All identified Trauma Team members to immediately respond



ACS Level III/IV and Montana Community and Trauma Receiving Facilities may use a single level “all hands on deck” approach for Trauma Team Activation.

Documentation

- Effective Documentation - *ALWAYS AN ISSUE*
- Complete, accomplished in “real time”,
- Accessible to staff, accurate, legible
- Ready to go with the patient when they go
- “Tells the entire story”
 - Time of interventions with response to interventions
 - I/Os, meds, imaging, VS, etc.
- Provides opportunity for evaluation of care processes so opportunities for improvement can be identified and action plans developed

Documentation is an ongoing issues for ALL facilities, EVERYWHERE. While documentation is important, other issues demand staff attention during patient resuscitation and scarce resources may mean documentation is incomplete. The mantra everyone hears about the importance of documentation is “if it wasn’t documented, it wasn’t done”. While this is certainly true and there is legal risk involved as a result, it is simply not a truly compelling argument for the person providing care at the bedside. A more effective approach for patient care staff is to emphasize that complete documentation really provides them with deserved credit for good care. Without complete documentation, it is difficult (if not impossible) to evaluate the care provided or identify opportunities for improvement.

Documentation

- Trauma Flowsheets
 - Most facilities document traumas on paper as computer programs are complicated/cumbersome
 - Forms organized to flow with the care of the patient
 - Provide “cues”/reminders as to what should be documented
 - Comprehensive, user-friendly, staff-designed
 - Accessible: kept where staff will USE them
 - “Tells the story”
- Pitfalls: too complex, not user-friendly, too much detail, imposed on staff, kept “elsewhere”, not organized to the flow of care

What promotes effective, complete documentation for an injured trauma patient? The Trauma Flowsheet.

Many good examples exist. Involve clinical staff to “cut and paste” examples to design a comprehensive form that works for THEM. Implementing a form without staff support and “buy-in” means CERTAIN failure of that form.

Trauma flowsheets that are NOT utilized are too complicated, don’t flow well, designed by someone who doesn’t use them and not kept where staff can easily access them.

Electronic Medical Records present different issues. Episodic critical care (Medical or Trauma resuscitations) requires “real-time” documentation for accuracy. EMR documentation is extremely difficult to implement “as it happens” and often requires “re-construction” of events sometime later. For that reason, the American College of Surgeons strongly recommends that Trauma Team Activations be documented on paper Trauma Flowsheets and NOT in the EMR formats. Often, trauma patients must be transferred to higher/different levels of care. EMS & ED documentation must accompany the patient wherever they are transferred to.

Education

- Activation criteria
- Roles & responsibilities of team members
- Development of teamwork
- Communication & documentation
- Equipment, supplies and medications;
- Storage, usage, procedures
- Specific injury management
- Transfer procedures & documentation
- “Mock Trauma” practices
- Case reviews & PI: How did we do?

Were good decisions made & actions taken?

Education for all team members (including EMS) needs to consist of many components. This cannot be over-emphasized. Strides made managing trauma patients well as a team can be replicated for any other type of “time-sensitive” patient.



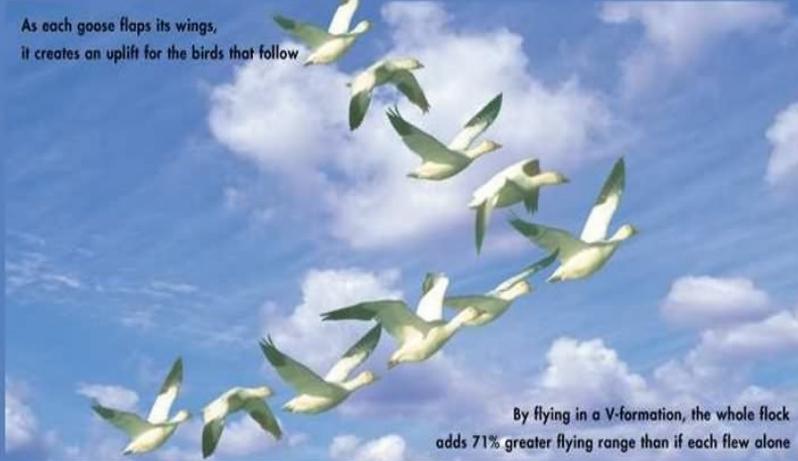
**“When we became better at managing trauma patients, we became a better ER and a better hospital”
- Kirby Peden, MD**

TEAM Course conducted in Circle, MT being instructed by Kirby Peden, MD

duressantley.com

Together Everyone Achieves More

As each goose flaps its wings,
it creates an uplift for the birds that follow



By flying in a V-formation, the whole flock
adds 71% greater flying range than if each flew alone

"Communication + Co-Operation = Success"

Resources

➤ EMS & Trauma Systems:

<http://dphhs.mt.gov/publichealth/EMSTS/traumasystems/tcresources.aspx>

➤ CDC Field Triage Decision Scheme: the National Trauma Triage Protocol

➤ FREE wall chart, written guide & pocket card

<http://www.cdc.gov/FieldTriage/>

➤ American College of Surgeons "Orange Book"

➤ Barach, Paul, and M. Weingart. "Trauma team performance." *Trauma: Resuscitation, anesthesia, surgery, and critical care*. New York: Marcel Dekker, Inc (2003): 96-150.

➤ American College of Surgeons Committee on Trauma ATLS 9th ed. 2012

Many resources are available to help you with this process.