

Eastern Association for the Surgery of Trauma

27th Annual Scientific Assembly

Sunrise Session 07 Engaging All Members of the Acute Care Surgery Team

> January 16, 2014 Waldorf Astoria Naples Naples, Florida

STAFFING MODELS TO INCREASE THE QUALITY AND EFFICIENCY OF CARE IN TIMES OF LIMITED RESOURCES

A. Britton Christmas, MD, FACS Carolinas Medical Center Charlotte, NC

Evolution

- July 1, 2003 implements residency work hour limitations
- "Shift" type work schedules and night float systems
- Concerns emerge regarding continuity and quality patient care
- Integration of health care extenders (ACP's) into trauma services

The Rise of Acute Care Surgery

- Service Line Expansions
 - Trauma
 - Trauma Critical Care
 - Surgical Critical Care
 - Neurosurgical Critical Care
 - Emergency General Surgery
 - Critical Care Procedures

The Problems

- Decreasing manpower in the form of residents
- Waning interest in Trauma/Critical Care as profession
- Increasing patient numbers
- Increasing patient acuity
- 24/7 Coverage
- Maintenance of continuity
- Resident/ACP education and interaction

Keys to Staffing

- Understand needs
- Understand resources
- Understand DOP's for your ACP's
- Develop SOP's
- Clearly PRIORITIZE coverage needs
- Must be able to "flex"

Carolinas Medical Center

- Level I Trauma Center
- Level II Pediatric Trauma Center (Pending)

Beds	874
ICU Beds	141
Trauma Activations	4467
Trauma Admissions	4336
SCC Consults	1496
Operative Cases	2300

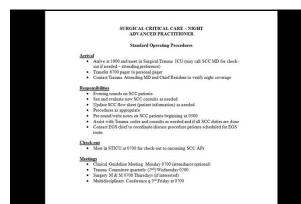
Daily Services

- Trauma Floor
- Trauma ICU
- Surgical Critical Care
- Emergency General Surgery
- Red Surgery
- Call Coverage

Personnel Resources

- 12 Acute Care Surgeons
- 11 ACP's (Approved for 13 positions)
- 1 Surgical Critical Care Fellow
- Residency Program
 - 4 Categorical/year

*SP Allied Health Profession	PECIAL PRIV nals must app	ILEGE	S (SEE QUAI	not be amended or altered in any LIFICATIONS AND/OR SPECIFIC CP res in order to be eligible for special p	RITERIA)			
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punctures for blood sa dressings, including lid	ampling, culti guid or spray	ures, any occlu	nd iv catheter isive material dicated dress AHPS-2	bladder catheterization (short-term a ization, record progress notes; seles s. absorbent matenal afficed with ta ings; write discharge summaries. SPECIAL PROCEDU GENERAL:	ct and app pe or circ	oly appro-	opriate tial wra	wound
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			AHPS-2(b)*	Central Venous Catheter Insertion	10			



Daily ACP Assignments

2 ACP's

- SCC

Revised 5/10, 3/13

- Night 1 ACP 1 ACP (Mon – Fri)
- Trauma Floor
- "Float" 1 ACP (Mon – Fri)
- TICU

ESTABLISH CLEAR PRIORITIES

- <u>ALWAYS</u> 2 ACP's for SCC rounds and day coverage
 - No resident support
 - SCC 1 receives and delegates consults
 - SCC 2 assist SCC 1 and first call for procedures
 - Attempt to overlap for continuity

PRIORITIES (Cont'd)

• <u>ALWAYS</u> 1 ACP for nights

- Attending responsible for multiple service lines
- Often resident cross coverage for multiple services
- SCC is priority
- Assist Trauma resuscitations and TICU PRN
- Start SCC morning pre-rounds

PRIORITIES (Cont'd)

- Trauma Floor ACP central point of contact and continuity
 - Monday Friday greatest need for discharge and coordination with other services
- "Float" ACP utility player Residents rounding and managing patients
 - Trauma resuscitations
 - Trauma clinic Wednesday PM
 - ACP clinic Friday AM
 - Flex to assist SCC, Trauma Floor, and Call as
 - needed

PRIORITIES (Cont'd)

- Gen Surg Designated ACP (Mon-Fri) - Residents in OR on weekdays
 - Consults, discharges, patient management

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	Night													



Assess Staffing Needs

• SCC Needs Assessment (11/2013)

Consultation Times	Consults (n)
0300 – 0700	24
0700 – 1100	40
1100 – 1500	76
1500 – 1900	130
1900 – 2300	37
2300 - 0300	23

What about resident interactions?

- Make it very clear that ACP's don't work for the residents...they work for the service line under direction of attending physicians
- ACP's conduct orientation to service line
- ACP's as a resource
- Provider responsible for patient gets first rights at critical care procedures

Other Keys to Success

- Build a team with functionality similar to the attending staff or representative service line
- Provide internal educational opportunities
- Teamwork is a MUST
- Establish a PHYSICIAN LIAISON
- Designate LEAD ACP when group large enough to need leadership/representation

Maximizing the Effectiveness of PAs/NPs in the Acute Care Surgery Model

Elizabeth K. Crawford, M.S., PA-C Trauma and Acute Care Surgery PeaceHealth Southwest Medical Center Vancouver, WA ecrawford@peacehealth.org

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Objectives

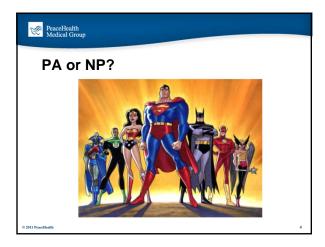
- Why do you want one?
- How do you find the right one?
- How do you decide what they should do?
- How do you get staff buy-in?

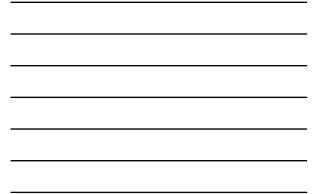
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Physician Assistants and Nurse Practitioners

• What we are

- Partners (Two-way relationship)
- Physician extenders : allowing "you" to be in multiple places at the same time
- Extensive research shows our value
- (time/money/productivity/quality of life/etc.)
- · What we are not
 - Mini-docs
 - "Mid-levels"
 - Residents





Finding the right PA/NP

- It doesn't start with recruiting...
- Decide what role you want them fill:
 - Initial visits?
 - Follow-up visits?
 - First assist?
 - Floor rounds?
 - ICU care?
 - Procedures?
- Define <u>exactly</u> what will they need to know to be successful = JOB DESCRIPTION

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A Day in the Life of an ACS PA-C

• The ultimate utility player...



We're a Team...

- How do you want your team to work?
- Where do you want your PA/NP to spend their time?
 Cloning is not an option... Feed and water them... Don't burn them out... They're like Gremlins
- What will their schedule look like?
- What are your plans for when they take vacation?
 - Do without?
 - Locum tenens?

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Who are you looking for?

- Experienced vs. new graduate
 - You will have to train/orient both
 - The only question is how much
- Locums to permanent?

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How do you attract the right PA/NP to your position?

- Benefits: What do PAs/NPs value?
- (It might not be what YOU think...)
- Orientation and training
- · Opportunities for professional growth
 - Education
 - Research
 - Presenting at national meetings
 - Teaching/mentoring

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Where should we advertise for the right PA/NP?

- AAPA/AACN
- State PA or NP associations
- PA / NP programs; PA fellowship programs
- EAST
- AASPA, SCCM, SPATCCM, STN, etc.
- Your hospital website(s)
- Monster, Job Finder, etc.
- ASK OTHER PAs/NPs!!!

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Orientation and training: Setting them up for success

- Define <u>exactly</u> what will they need to know to be successful = JOB DESCRIPTION
 - Create specific objectives
 - Decide in advance how you will accomplish each objective
- Define appropriate time-frame(s)
- Define key criteria for success/failure
- Decide in advance how you are going to mentor and remediate
- Be specific but remain flexible too...

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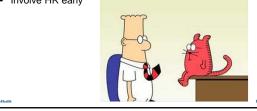
Getting staff buy-in

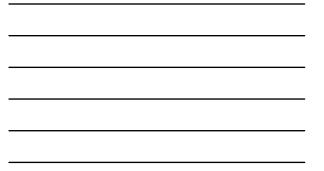
- Appropriate credentialing
- COMMUNICATION
 - What the PA/NP can/can't do
 - PA/NP responsibilities
 - Daily
 - Emergencies
 - Expectations for staff behavior
 - Establish the chain of command
- Advocate for your PA/NP

12

What do you do if it's not the right fit...

- This is where job description and specific orientation objectives will save you.
- Involve HR early

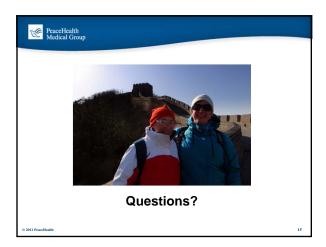




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Resources

- American Academy of Physician Assistants
 <u>http://www.aapa.org</u>
- American Academy of Nurse Practitioners
 <u>http://www.aanp.org</u>
- Eastern Association for the Surgery of Trauma Advanced Practitioners Committee
 - http://www.east.org



			Eva	luator
			Date	Initia
. Introductions:				
Dr. Riyad Karmy-Jones	Kimberly Lewis	Annette Hoxie		
Dr. Dennis Febinger	Ann Kincaid	Libby Bryant		
Dr. George Dulabon	Julie Kirk	Dr. Marty Bell		
Dr. MaryClare Sarff	Shelia Goldsmith	Donna Mairose		
Dr. Benjamin Rogoway	Nellie Osterman	Dr. Jaime Nicacio		
Dr. Kahled (Shad) Pharaon	Rebecca Babcock, PA-C	Tracey Bauer		
Cassandra Sappington PA-C	Debbie Gale, ARNP	Marty McCann		
Elizabeth Crawford, PA-C	Jenny Wynn, ARNP	□ Mary Keith		
Denise Haun-Tylor	Jason Graeme, PA-C			
Debbie Miller	Dr. Kevin Kahn			
Dr. Desarom Teso				
Kim Cantwell-Gab, ARNP				
. Purpose/Goals of Division &	Organizational Structure			
	tives, Evaluation timing and format		1	1
9	edule classes as needed (ATLS, ACL	S PALS BCLS)	+	+
		's Principles of Surgery, The Trauma		
Manual: Trauma and Acute Care				
3. Review of Job/ Performance	Expectations			
Job description				
Orientation schedule, training pro	cess, and educational needs			
Pocket reference cards				
• Review office space / equipment	/ lab coats / business cards / other nee	ds		
• Obtain locker in changing room,	and review location of scrubs			
I. Compensation and Timekeep	ing	•		
Assure direct deposit information				
• CME / national meeting requests				
Vacation requests				
5. Attendance Requirements/ Sc	heduling			
	incutining			
Absence Reporting				
• Required training scheduled / per				
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□N-95 fit testing	□ CPOE	Dictation	4	1
□HRSD (radiology) review	□ Portal / HPF Webstation			
Lunch and refreshment breaks				
Event Reporting (http://eonlin	e.ad.sw-health.org/body.cfm?id=7	72)	1	1
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7. Patient Safety				
Quality Care Resources – Cindy I	Eling x3132 / x 3078			
	nt and Recommendation (SBAR) Stru	ctured Verbal Handoff		
Communication: (http://eonline.a				
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off%20and%20Transition%20of%			1	1
Patient Relations / Risk Managem				
	(http://eonline.ad.sw-health.org		1	1

	
A. Emergency Preparedness Plans	
 Code Red response plan for fire or explosion Weather and earthquake emergencies and evacuation plans 	
 Code Gray/Silver plan 	
Amber Alert	
Code Orange	
B. External triage / Internal triage (http://eonline.ad.sw-	
health.org/documents/Emergency%20Preparedness/Emergency%20Preparedness%20Plans/8731.002%20Internal%2	
0or%20External%20Triage.pdf)	
9. Infection Control – <u>Complete mandatory training</u> : (PeaceHealth Crossroads / MyHR)	
Reportable disease process	
Standard precautions procedures	
Transmission based isolation procedures	
 Reporting a communicable disease exposure Reporting needlesticks and BBP exposures 	
 Immunizations 	
 Infection Control Resources 	
10. Medication Use management	
Demonstrates competency with accurately completing prescriptions	
PRN Indications	
Medication Reconciliation (http://eonline.ad.sw-	
health.org/documents_smm_pnp/public/3492_327_8720_088%20Medication%20Reconciliation.pdf)	
12. Sedation Training	
Demonstrates familiarity with Procedural Sedation policy (http://eonline.ad.sw-	
health.org/documents_smm_pnp/public/swWashmcemp10169_4945_8720_718%20Procedural%20Sedation%	
20Moderate.pdf)	
13. Daily Routines	
Clinical schedule – Unit workflow / routine	_
Supplies	
Dictation and notes –format	
Policies and Practice management guidelines – (Trauma Center / EAST)	
14. Divisional Meetings	
• First Thursday 7:00 – 8:00 am: Trauma/ACS M&M conference – Firstenburg Conference Room (M-level)	
Second Wednesday 7:00 – 8:00 am: Policies & Guidelines – Trauma/ACS Conference Room (Office)	
Second Thursday 7:00 – 8:00 am: TACS meeting – Trauma/ACS Conference Room (Office)	
• Fourth Wednesday 7:00 – 8:30 am: Multi-disciplinary Trauma Committee – Auditorium A/B (HEC)	
• Fourth Thursday 7:00 – 8:00 am: Trauma/ACS Systems Meeting – Auditorium A/B (HEC)	
Quarterly Monday 6:00 – 8:30 pm: Regional QA/QI Trauma Committee – Classroom 3/4 (HEC)	
Third Friday 12:30 – 1:30 pm: Critical Care Committee – Firstenburg Conference Room (M-level)	
•	

The Accreditation Council for Graduate Medical Education (ACGME) has designated six core competencies: medical knowledge, patient care, practice-based learning, interpersonal and communication skills, professionalism, and systems-based practice.

At the completion of orientation, the Trauma Physician Assistant will need to be able to demonstrate each of the following core competencies:

Medical knowledge

- 1. Explain the physiology of the cardiovascular, pulmonary, hematological, neurological, endocrine, renal and gastrointestinal systems.
- 2. Describe the pathophysiology of common injuries and disease processes that might lead to admission to the Trauma service.
- 3. Describe the effects of injury and common disease processes on the cardiovascular, pulmonary, hematological, neurological, endocrine, renal and gastrointestinal systems.
- 4. Discuss the immediate management of post-operative trauma and general surgical patients, specifically detailing the immediate and delayed concerns and indications for emergent return to the operating room.
- 5. Compare and contrast the trauma patient from other surgical and medical patients, discussing pre- and post-operative management concerns.
- 6. Discuss the management of intracranial, intra-abdominal, and extremity compartment syndromes.
- 7. Explain the principles, use, physiology, and common pitfalls of emergency airway maneuvers.
- 8. Explain the goals of basic nutrition in the ICU patient, including indications for and routes of nutrition, risk factors associated with poor nutrition, and initial nutritional assessment of the ICU patient.
- 9. Discuss infection control goals and techniques used to help in the prevention of ventilator-associated pneumonia, urinary tract infections, central venous line infections, and post-operative wound infections.
- 10. Demonstrate knowledge of fluid balance management, to include the use of vasoactive medications, fluid resuscitation (including choice of crystalloid vs. colloid vs. blood), and diuretic therapy.
- 11. Demonstrate knowledge of indications for vasoactive medications.
- 12. Explain the indications, contraindications, complications, and pitfalls of the following procedures:
 - a. Arterial puncture and cannulation
 - b. Central venous catheter placement
 - c. Needle and tube thoracostomy
 - d. Diagnostic peritoneal lavage
 - e. Echocardiography
 - f. Percutaneous tracheostomy
 - g. Percutaneous endoscopic gastrostomy

Patient Care

- 1. Differentiate between patients requiring treatment in an intensive care setting versus acute care hospitalization versus other care settings.
- 2. Identify patients who are ready for transfer or discharge, and the factors important to facilitate safe patient care transfer.
- 3. Describe diagnostic criteria and demonstrate proficiency in the initiation of treatment plans for patients with acute injury or impending organ system failure.
- 4. Demonstrate rapid assessment of severely injured patients in the emergency department, intensive care unit, and throughout the hospital.
- 5. Demonstrate prioritization of competing care needs of severely injured / ill patients.
- 6. Identify and initiate timely treatment for the following conditions:
 - a. Traumatic brain injury / closed head injury / increased intracranial pressure
 - b. Spinal cord injury
 - c. Pneumothorax / hemothorax
 - d. Respiratory insufficiency / arrest
 - e. Acute lung injury (ALI) / Acute respiratory distress syndrome (ARDS)
 - f. Shock
 - g. Cardiac insufficiency / arrest
 - h. Coagulopathy
 - i. Extremity compartment syndrome
 - j. Electrolyte and acid-base disturbances
 - k. Sepsis
 - 1. Pulmonary emboli
 - m. Abdominal compartment syndrome
 - n. Mixed medical comorbidities and complications: Overdose, Acute myocardial ischemia / infarction, Cardiac tamponade, Acute / chronic renal failure, Acute / chronic liver failure, Endocrine dysfunctions, Rhabdomyolysis, Multi-organ system failure, etc.
- 7. Discuss the goals and techniques involved of the following procedures:
 - a. Exploratory laparotomy
 - b. Abdominal packing / damage control
 - c. Emergency thoracotomy (including clamshell)
 - d. Laparoscopic and open cholecystectomy
 - e. Splenectomy
 - f. Laparoscopic and open appendectomy
 - g. Colecotmy
 - h. Colostomy/ileostomy
 - i. Management of the open abdomen
- 8. Use data from appropriate invasive and non-invasive monitoring devices to diagnose, treat, and titrate patient therapies.
- 9. Demonstrate caring and respectful communication with patients and their families.

Practice-Based Learning

- 1. Recognize and employ patient safety monitoring and error reduction strategies that could be employed in the trauma patient population.
- 2. Recognize and describe the importance to patient care of assessing and improving patient and family satisfaction.
- 3. Discuss basic methods for searching, reviewing, and evaluating medical and scientific literature.
- 4. Contribute to and support process improvements in the trauma program.
- 5. Describe methods for gaining insight into one's own performance, and for identifying methods for improvement.
- 6. Facilitate the education and learning of fellow providers.
- 7. Demonstrate overall clinical competency.

Interpersonal and Communication Skills and Professionalism

- 1. Demonstrate effective communication with physicians, nurses, consultants, and all other members of the healthcare team on rounds and in daily interactions.
- 2. Communicate clearly, correctly and concisely in written reports, stressing important issues in an articulate plan.
- 3. Describe issues surrounding safe order writing and the requirements for communication as it relates to telephone and verbal orders.
- 4. Demonstrate prompt and courteous responses to pages and requests of patients, families, and staff.
- 5. Display support and empathy to patients and families.
- 6. Communicate care plans clearly and effectively to patients, families, and other members of the healthcare team.
- 7. Demonstrate good use of consulting specialty services when appropriate in managing complex clinical problems.
- 8. Discuss the importance of recognizing and respecting the specialized skills of other healthcare providers (nurses, RT, PT, OT, dietitians, pharmacists, etc.)
- 9. Demonstrate the skills required to maintain good relationships with other healthcare providers.
- 10. Discuss the importance of patient and family wishes in ethical issues surrounding treatment decisions.
- 11. Actively participate in the continuing education of fellow clinicians on relevant trauma topics.
- 12. Demonstrate respect for others, tolerance to others' opinions, and sensitivity to diversity.
- 13. Demonstrate the importance of placing the needs of the patient and the team above one's own self-interest.
- 14. Discuss and demonstrate the importance of accepting responsibility for one's own actions.
- 15. Model responsible, professional behavior.

Systems-Based Practice

- 1. Discuss issues of patient safety including systems that put patients at risk including handovers, medication reconciliation, surgical procedures, transfusions, and nursing/staffing ratios.
- 2. Describe the proper procedure to correctly identify a patient to minimize patient risk.
- 3. Describe the proper use and procedure for the "time out" or "team pause."
- 4. Describe the proper use and procedure for the SBAR-formatted patient handoff.
- 5. Discuss basic reimbursement methodologies and requirements for coding and billing.
- 6. Demonstrate cost-effective care in ordering tests and planning procedures.
- 7. Recognize, describe and ensure compliance with institutional and divisional policies, procedures, and practice guidelines, as well as regulatory policies from accreditation agencies, regulators, and payors.

Evaluation

To determine the Trauma Physician Assistant's competence in each of the above areas, the following evaluation tools may be utilized:

- 1. Direct observation
 - a. Supervising MD and Attending MD evaluation
 - b. Staff PA evaluation
 - c. Consulting MD/PA/NP evaluation
 - d. Nursing recommendations
- 2. Chart review
- 3. M&M conferences / Multi-disciplinary Trauma Conferences
- 4. Trauma and Acute Care Surgery team meetings
- 5. Skills assessment
 - a. Simulation center
 - b. Patient care observation
 - c. Written assessment tool(s)

Learning Materials

- 1. Text and course Advanced Trauma Life Support
- 2. Papers and articles as assigned by consultants / fellows / staff MLPs
- 3. Text Schwartz's Principles of Surgery, The Trauma Manual: Trauma and Acute Care Surgery
- 4. Text and course Fundamentals of Critical Care Support
- 5. Adult Resident ICU course (sponsored by the Society of Critical Care Medicine)

Orientation Needs Assessment and Competency Tool

On the following pages, activities are listed that reflect the role and responsibilities of the **Trauma Physician Assistant** for PeaceHealth Medical Group / PeaceHealth Southwest Medical Center.

The tool is divided into two components. One is the **Self Assessment.** It has been developed to help you identify your learning needs and orientation goals and to assist in the development of an individualized orientation plan. Your participation in the orientation process is essential to achieve an effective and meaningful introduction to the medical center. As you complete this assessment, consider your previous experiences and their application to your new role/assignment.

The second component is the **Competency Validation.** It will be used throughout your orientation to document progress towards meeting orientation goals. It provides a mechanism by which you can demonstrate the ability to carry out activities before you complete your orientation.

Your preceptor will share with you the responsibility for an effective orientation plan. They will assist you in identifying your learning needs and completing the competencies.

We look forward to facilitating a valuable orientation program that assists you in providing quality patient care.

The following required signature	Date	
Assessment and Competency Too	l.	
Orientee:		
Primary Preceptor:		
Supervising Physician:		
Trauma Center Medical Director:		

DIVISIO												
	Evaluator Signatures											
Initials	Signature	Initials	Signature									

Orientation Needs Assessment and Competency Tool

Self Assessment

- Please complete the "Self Assessment" portion of the tool by indicating whether you have no experience (**N**); some experience and may require practice or assistance (**S**); or experience (**E**).
- Specific components of the competency may be listed under the statement. These components will assist you to understand the specific activities associated with each competency. If an activity is not available during your orientation, the content should be discussed and online resources accessed (policy, guideline, etc.).
- Being aware that as individuals we learn best in very different ways, we would like to help your preceptor(s) communicate in the ways that you learn most effectively. Your job will be to help communicate this to your preceptor(s). So, how do you learn best?

□ Seeing □ Doing □ Reading □ Listening

• <u>Together, we will use this form daily to guide your orientation experiences in your</u> <u>assigned clinical areas.</u>

Competency Validation

- Criteria for competency validation are based on sound clinical practice, taking in to consideration appropriate standards, guidelines, policies and procedures.
- Competency is achieved when the orientee is able to carry out the competency **independently** and is mutually agreed upon by your preceptor/designated PA or MD and the orientee.
- Your preceptor/designated PA or MD will determine how and when competency is validated using the codes listed.
- Once competency has been validated, your preceptor/designated PA or MD documents the competency validation code, with their initials and date.
- Full signature of all PAs/MDs assessing competency during orientation is documented in the signature section on the first page of the tool.
- Your signature will be required at the end of orientation when all appropriate competencies have been validated by your preceptor/designated PA or MD.

Trauma PA Orientation Needs Assessment and Competency Tool	$\frac{\text{Needs}}{\text{N}=\text{No ex}}$	S ASSESSM sessment Coo perience experience, r	<u>des</u>	Compete D= Demo	COMPETENCY VALIDATION <u>competency Validation Codes</u> = Demonstration = Explanation and discussion				
	help E = Exper	rienced							
	N	S	E	Code	Preceptor's Initials	Orientee's Initials	Date		
Assessment									
1. Applies knowledge of mechanism of injury and injury patterns to prepare team, supplies, and equipment for arrival of injured patient.									
2. Applies knowledge of health and human					2				
behavior to perform assessment of patient.									
 A. Performs rapid Primary Survey Informing Recording RN and Trauma Team of results and/or needed interventions Airway (with cervical spine protection as needed) Breathing/ventilation/oxygenation Circulation Signs of shock Hemorrhage Disability Glasgow Coma Scale Pupil size and reactivity Expose/Environmental Control Bair Hugger Ventilator warmer Fluid warmer Blanket warmer Directs team to begin removal of spinal immobilization straps and initiation of role-specific tasks. 				Comn	nents:				
 A. History Obtains appropriate history from EMS, patient, and/or family concentrating on the chief complaint and mechanism of injury History of present illness Medications Allergies Past medical and surgical history Social and, when appropriate, family history 									

	r			
B. Physical Examination				
Secondary Survey				
 Review ABC's 				
 Disability (if not already done) 				
 Glasgow Coma Scale 				
 Pupil size and reactivity 				
 Expose/Environmental Control (if not 				
already done)				
 Bair Hugger 				
 Level I fluid warmer 				
 Warm blankets 				
 Obtain and evaluate vital signs 				
Secondary Survey				
Total patient evaluation				
• Head and skull				
 Maxillofacial and intraoral 				
 Neck 				
o Chest				
• Abdomen (including back)		-		
 Perineum/rectum/vagina 				
 Musculoskeletal 				
 Neurologic examination 				
2. Orders and evaluates appropriate				
testing based on patient presentation,				
history and physical examination.				
 Demonstrates appropriate ordering of diagnostic 			C	
 Demonstrates appropriate ordering of diagnostic tests / panels 			Comments:	
• Trauma Alert / Trauma Team panel(s)				
• ABG				
• CT scans				
• X-rays				
• EKG				
Demonstrates appropriate interpretation of				
diagnostic tests and follow up monitoring				
• Trauma Alert / Trauma Team panel(s)				
• ABG • CT scans				
• CT scans				
 CT scans X-rays 				
 CT scans X-rays EKG 				
 CT scans X-rays EKG Collaborates appropriately with physician and 				
 CT scans X-rays EKG Collaborates appropriately with physician and other health care providers when appropriate 				
 CT scans X-rays EKG Collaborates appropriately with physician and other health care providers when appropriate Diagnosis 				
 CT scans X-rays EKG Collaborates appropriately with physician and other health care providers when appropriate Diagnosis 3. Demonstrates competency in 				
 CT scans X-rays EKG Collaborates appropriately with physician and other health care providers when appropriate Diagnosis Demonstrates competency in determining correct diagnosis for: 				
 CT scans X-rays EKG Collaborates appropriately with physician and other health care providers when appropriate Diagnosis 3. Demonstrates competency in determining correct diagnosis for: Airway compromise / impending airway 			Comments:	
 CT scans X-rays EKG Collaborates appropriately with physician and other health care providers when appropriate Diagnosis 3. Demonstrates competency in determining correct diagnosis for: Airway compromise / impending airway compromise 			Comments:	
 CT scans X-rays EKG Collaborates appropriately with physician and other health care providers when appropriate Diagnosis 3. Demonstrates competency in determining correct diagnosis for: Airway compromise / impending airway compromise Respiratory failure / impaired respiratory 			Comments:	
 CT scans X-rays EKG Collaborates appropriately with physician and other health care providers when appropriate Diagnosis 3. Demonstrates competency in determining correct diagnosis for: Airway compromise / impending airway compromise Respiratory failure / impaired respiratory mechanics 			Comments:	
 CT scans X-rays EKG Collaborates appropriately with physician and other health care providers when appropriate Diagnosis Jemonstrates competency in determining correct diagnosis for: Airway compromise / impending airway compromise Respiratory failure / impaired respiratory mechanics Pneumothorax (simple and tension) 			Comments:	
 CT scans X-rays EKG Collaborates appropriately with physician and other health care providers when appropriate Diagnosis 3. Demonstrates competency in determining correct diagnosis for: Airway compromise / impending airway compromise Airway compromise / impending airway compromise Respiratory failure / impaired respiratory mechanics Pneumothorax (simple and tension) Hypovolemia / hypovolemic shock 			Comments:	
 CT scans X-rays EKG Collaborates appropriately with physician and other health care providers when appropriate Diagnosis Jemonstrates competency in determining correct diagnosis for: Airway compromise / impending airway compromise Respiratory failure / impaired respiratory mechanics Pneumothorax (simple and tension) 			Comments:	
 CT scans X-rays EKG Collaborates appropriately with physician and other health care providers when appropriate Diagnosis Jemonstrates competency in determining correct diagnosis for: Airway compromise / impending airway compromise Respiratory failure / impaired respiratory mechanics Pneumothorax (simple and tension) Hypovolemia / hypovolemic shock Hemothorax 			Comments:	
 CT scans X-rays EKG Collaborates appropriately with physician and other health care providers when appropriate Diagnosis Jemonstrates competency in determining correct diagnosis for: Airway compromise / impending airway compromise Respiratory failure / impaired respiratory mechanics Pneumothorax (simple and tension) Hypovolemia / hypovolemic shock 			Comments:	

•	Coagulopathy							
•	Extremity compartment syndrome							
•	Acid-base disturbances							
•	Electrolyte abnormalities							
٠	SIRS / Sepsis							
٠	Pulmonary embolus							
٠	Deep venous thrombosis							
٠	Acute lung injury / ARDS							
•	Abdominal compartment syndrome							
Di	sease management/plan/coordination of c	are	•					
4.	Develops a plan of care appropriate to							
the	e patient.							
•	Collaborates appropriately with physician and				Comn	nents:		
_	other health care providers when necessary Demonstrates appropriate documentation of							
ľ	Admission History and Physical (dictation and							
	McKesson Notes)							
•	Demonstrates appropriate use of CPOE for							
	admission orders							
•	Demonstrates appropriate use of CPOE for post- operative orders							
Pr	ocedures		L					
5.	Demonstrates appropriate							
	understanding and technique for:							
•	Arterial line placement				Comn	ients:		
•	Central venous cannulation and catheter				001111			
	placement							
•	Tube thoracostomy							
٠	Foley catheter placement							
٠	Nasogastric tube placement		r					
٠	Dressings, including chest tube site, wound-vac and Abthera dressings							
Ma	anagement of the acutely injured							
pa	tient							
	Applies knowledge of mechanism of injury							
	l injury patterns to determine expected							
	ogression of injuries.							
	Applies knowledge of health and human navior to perform daily (or more frequent)							
	essment of patient.							
ass	Cosment of patient.	1	1	1		1	1	

	1			
9. Demonstrates competency in				
prevention of, and correct diagnosis of				
common complications:				
o DVT				
 Hyperglycemia 				
o VAP				
0 ALI/ARDS				
 Elevated ICP 				
o UTI				
• Sepsis / SIRS				
 Coagulopathy 				
10. Develops a plan of care appropriate to				
the patient.				
				Commentary
Collaborates appropriately with physician and other health agree providers via written and workal				Comments:
other health care providers via written and verbal				
communication				
Demonstrates safe and appropriate decision				
making regarding transfer to- and from- ICU				
• Demonstrates appropriate documentation of daily	× ·			
progress note, including documentation for				
coding purposes				
Demonstrates appropriate use of CPOE				
• Daily orders				
• Transfer review				
Discharge from hospital				
11. Develops an appropriate plan of care				
for discharge from the hospital.				
 Collaborates appropriately with physician and 				Comments:
other health care providers via written and verbal				Comments:
communication				
Demonstrates safe and appropriate decision				
making regarding discharge setting				
Completes discharge documentation				
 Daily progress note 				
• Discharge orders				
 Discharge instructions 				
 Medication reconciliation / prescriptions 				
 Dictates discharge summary 				
Orders appropriate home equipment/therapies				
• Durable medical equipment (DME)				
• Home health services				
 Neuro-rehabilitation referral 				
Orders appropriate follow-up appointments				
• Trauma Clinic				
 Specialty physicians / services 				
 Primary care provider 				
	1	1	1	

Demonstrates understanding of aposis! discharge				
 Demonstrates understanding of special discharge circumstances 				
 Lovenox/Arixtra prescriptions 				
 Kaiser patients 				
 Discharges to SNF 				
 Discharges to 4 West 				
 Pharmacy "compassionate fill" 				
Trauma and ACS Clinic				
12. Applies knowledge of mechanism of				
injury, injury patterns, and natural history of				
injuries to prepare for appointment.				
13. Applies knowledge of health and human				
behavior to perform assessment of patient.				
• Following appropriate SOAP format				
14. Demonstrates competency in				
determining correct diagnosis for common				
conditions/complications				
15. Develops a plan of care appropriate to				
the patient.				
Collaborates appropriately with physician and		Comm	nents:	
other health care providers when necessary				
Orders appropriate diagnostics and medications				
Orders appropriate follow-up appointments /				
referrals				
Demonstrates appropriate and timely				
documentation of clinic visit				

	Admission Labs/Tests					
Test	Order	Interpretation	Preceptor			
			initials/date			
ABG						
CBC with / without						
differential						
PT, aPTT,						
Fibrinogen						
Basic Metabolic						
Panel						
Lactate						
Alcohol / Tox						
screens						
Magnesium						
Phosphorus						
Calcium, Ionized						
Glucose (POC), q 1						
hour						
Lipase						
Amylase						
Bilirubin, Total and						
Direct						
AST, ALT, Alk phos						
Prealbumin						
Cardiac Biomarker						
Panel						
ABO type and						
antibody screen						
Blood cultures						
Urinalysis						
Urine culture						
Bronchial washings						
Chest X-ray						
EKG						

Admission Labs/Tests

has completed the PeaceHealth Medical Group / PeaceHealth Southwest Medical Center's Trauma Physician Assistant Orientation Program and has successfully demonstrated the ability to perform the basic skills required of this role.

Preceptor signature	Date:
Employee signature:	Date:
Trauma Medical Director signature:	Date:

Emergency Physicians as Partners in Acute Care Surgery

Marc Portner, MD St. Luke's University Health Network Bethlehem, Pennsylvania

Overview

- Training Model Past, Present, and Future
- Surgical Intensivist
- Emergency Traumatologist
- Acute Care Surgery

Fellowship Training Through 2013

- Multiple Fellowship programs

 Some specific for Emergency Physicians (EP's)
- 1 and 2 year programs
- Most trained in accredited programs
- Several trained in non-accredited programs
- No standard curriculum for Trauma/ACS

Fellowship Training 2013 and Beyond

- 2 year curriculum
 Eligible for Certifying Exam through ABS
- 2nd year: Traditional Surgical Critical Care
- 1st year: 'Supplemental Surgical Education' – New opportunities to focus on:
 - Critical elements in early surgical management/ decision making/perioperative care
 - Trauma resuscitation/decision making/ leadership

Surgical Intensivist Model

- Well described in literature and other forums
- Model exists at many institutions – Academic and Non-Academic centers
- No quality or resource utilization issues demonstrated

Trauma

- Potential roles for a fellowship trained Emergency Physician?
- Impact
 - Increased ACS / General Surgery volume
 - May improve collaborative relationship with ED
- Key factors to consider...
 - Penetrating volume
 - Staffing model robust surgical backup
 - Experience with non-op management BSOI

Our Experience

- St. Luke's University Hospital
- Level 1 Trauma Center
 - Moderate trauma volume, ~ 94% Blunt
 - 7 Trauma Surgeons, 1 Emergency Traumatologist
 - Trauma service staffed by:
 - ED and Gen Surgery residents
 - Advanced practitioners
 - Fellows

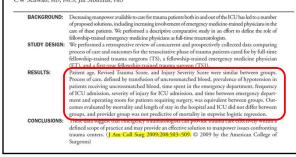
Our Experience

- SCCS / Trauma / General Surgery / Backup
- Alternate between SCCS and Trauma
- Trauma
 - Alerts / consults Lead team with in-house surgical backup immediately available
 - Management of patients in Step-down and Med-surg units
 - Ongoing management of patients in outpatient office

ORIGINAL SCIENTIFIC ARTICLES

Emergency Traumatologists as Partners in Trauma Care: The Future Is Now

Michael D Grossman, MD, FACS, Marc Portner, MD, Brian A Hoey, MD, FACS, Christy D Stehly, BS, CW Schwab, MD, FACS, Jill Stoltzfus, PhD



Patient age, Revised Trauma Score, and Injury Severity Score were similar between groups. Process of care, defined by transfusion of uncrossmatched blood, prevalence of hypotension in patients receiving uncrossmatched blood, time spent in the emergency department, frequency of ICU admission, severity of injury for ICU admission, and time between emergency department and operating room for patients requiring surgery, was equivalent between groups. Outcomes evaluated by mortality and length of stay in the hospital and ICU did not differ between groups, and provider group was not predictive of mortality in stepwise logistic regression.

Our Experience

- ED Traumatologist role
 - Safe and Effective
 - Efficient
 - Allowed for expansion of elective general surgery practice and Acute Care Surgery program

Acute Care Surgery

- Fellowship trained EP roles:
 - Surgical Intensivist
 - Traumatologist
 - Expanded role for a busy ACS program?
 - Pre-operative evaluation / resuscitation
 - Peri-operative management
- Economic and staffing impact...

Summary

- Workforce limitations and increasing demand for services will require **innovative solutions**
- EP Surgical Intensivist model extensively validated
- New training model provides new opportunities to train EP's to be **partners** in an evolving Acute Care Surgery model