

Supplemental Digital Content 1, The Trauma Patient Transitions: Administrator Survey

INSTRUCTIONS:

- The transition you should think about when completing this survey is when a trauma patient transitions from the ICU to non-ICU care areas within your hospital.
- Use the postage-paid envelope provided to return the completed survey.
- **Any** information you can provide will be important.
- Email Jason.A.Saucier@Vanderbilt.edu to request another paper survey if needed.
- You may use our electronic format via: <https://redcap.link/42uj6s0i>.
- Please indicate your survey number in the electronic format: Your Survey #: _____

Definitions of Terms

Registered Nurse (RN): a graduate trained nurse who is licensed by state authority after qualifying for registration.

APRN—Nurse Practitioner (NP): a registered nurse with advanced clinical training at the masters or doctoral level who is licensed by state authority after qualifying or registration.

Physician Assistant (PA): a licensed professional who practices medicine under the supervision of a licensed physician.

Physician (MD/DO): a doctoral prepared medical professional licensed to practice medicine under the laws of the state.

Intensivist: Is a physician who specializes in the care of critically ill patients

ICU: Adult intensive care units are critical care units resourced and dedicated to treated life-threatening conditions, often with specialty equipment and lower nurse to patient ratios.

Non-intensive, non-stepdown unit: Adult care units with a reduction in monitoring and increased patient to RN ratio; patients on these units do not require the specialized treatment, equipment, and staff ratios of the critical care units.

Senior management: Pertains to hospital administrators directly above the unit leadership team and are likely not part of the day-to-day operations of the unit.

FTE: Full-Time Equivalent; One (1) full time person equal 1 FTE. Two (2) part-time persons equal 1 FTE regardless of the number of hours employed.

1. Does your hospital have a designated trauma ICU? (Check one)

Yes *No

*If no, please skip to # **34**

2. Is your trauma center verified? (Check ALL that apply)

- Yes, by state designation
- Yes, by ACS
- No
- Do not know

3. Does the trauma unit include ICU and step-down beds? *Yes No

*If yes, approximately what percentage of these beds are dedicated to ICU patients? _____%

4. When patients are ready to transfer out of the trauma ICU, do 100% of these patients transition to a stepdown unit? (Check one)

- Yes, every ICU patient must go to a stepdown after the ICU
- No, at least some trauma patients may go to other types of units in the hospital (e.g., floor/ward)

Tell us about the transition processes in the Trauma ICU...

5. Does the trauma ICU have a guideline describing the patient characteristics that qualify for transition readiness? (Check ALL that apply)
 Yes, by policy/guideline Yes, computerized None
6. Do the providers at your institution utilize a standardize hand-off as patients transition from the trauma ICU? (An example is the I-PASS handoff tool) (Check one)
 *Yes No
- 6a. *If Yes, please describe it by name: _____

7. How are patients and families prepared for their new floor prior to the transition? (Check ALL that apply)
- | | <u>Patients</u> | | <u>Families</u> | |
|---|------------------------------|----------------------------------|------------------------------|-----------------------------|
| Education about the floor environment..... | <input type="checkbox"/> Yes | <input type="checkbox"/> No..... | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| Education about the floor staff expectations..... | <input type="checkbox"/> Yes | <input type="checkbox"/> No..... | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| Education about the transfer process..... | <input type="checkbox"/> Yes | <input type="checkbox"/> No..... | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| An opportunity to pre-view the floor before transfer..... | <input type="checkbox"/> Yes | <input type="checkbox"/> No..... | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| A visit from a floor representative..... | <input type="checkbox"/> Yes | <input type="checkbox"/> No..... | <input type="checkbox"/> Yes | <input type="checkbox"/> No |

8. Patient transfer handoffs are conveyed between nurses primarily by (Check one)
- Tape recordings
 - By phone call communication
 - A review of patient information such as the care plan without face-to-face report
 - Face-to-face report in nurses' station or other location such as break room
 - Walking rounds/report at which they stop in the patient's room or bedside
9. How often do patient transitions occur during a nursing shift change? (Check one)
- Always
 - Frequently
 - Sometimes
 - Rarely
 - Never

Tell us about the resources that support Trauma ICU transition work...

10. What types of **computer software programs** are utilized during Trauma ICU transitions? (Check ALL that apply)
- Electronic bed flow programs
 - Software text platforms
 - Patient physiological readiness programs
 - Decision support software
 - Identification of the receiving team prior to transfer
 - Other: _____

11. Do all unit RNs use:
- | | Yes | No |
|---|--------------------------|--------------------------|
| Phones/2-way mobile communications..... | <input type="checkbox"/> | <input type="checkbox"/> |
| Vibrating pager/other communication device..... | <input type="checkbox"/> | <input type="checkbox"/> |

12. Does your institution use an electronic medical record (EMR)?

*Yes. No

*If yes, indicate which of the following EMR functions are available to staff:

*Yes No *If yes, is it used for transition work?

	*Yes	No	Yes	No
Physician order entry.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Admission/transfer functions.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
In-and-out of hospital records.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Primary care office records.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Skilled nursing facility records.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

12b. Does the trauma ICU have a transfer form(s) unique to their unit?

Yes No

12c. If yes, describe: _____

13. Do you have a standardized method on which your nurse staffing budget is based?

Yes No Do not know

13a. If yes, describe the system: _____

14. What is the trauma ICU **budgeted** occupancy for last month? (# _____ patients)

15. What was the **actual** trauma ICU occupancy for last month? (# _____ patients)

16. Which of the following acuity measures is (are) used to characterize patients? (Check **ALL** the apply)

- APACHE.....
- TSI.....
- TRISS.....
- SARS.....
- CMI.....
- SOFA.....
- Other..... (Specify: _____)

17. Approximately what percentage of your population is greater than 65 years of age?
_____ % > 65 years of age

18. Approximately, what percent of the trauma ICU patient population identifies as:

- % _____ American Indian, Alaskan Native
- _____ Asian
- _____ Black, African-American
- _____ Native Hawaiian or Other Pacific Islander
- _____ White
- _____ More than one of these

Total 100%

19. Approximately what percent of the trauma unit's population is Hispanic/Latino/Latina?
_____ % Hispanic or Latino

Tell us about the provider role and human resources in the Trauma ICU...

20. Which statement best describes the physician model on the trauma ICU? (Check one)
- Only intensivists manage patients (**closed model**)
 - Some patients are managed by intensivist(s) and some are managed by attending physicians (**simple mixed model**)
 - Patients are managed jointly by an intensivist and the attending physician with defined roles (**semi-closed model**)
 - Some patients are managed by an intensivist, some are managed by attending physicians, and some are jointly managed by both intensivists and attending physicians (**matrix mixed model**)
 - There are no intensivists, attending physicians manage their own patients (**open unit**)
21. In your trauma ICU, what physician role can write a transfer order? (Check **ALL** that apply)
- First-year resident
 - Resident
 - Fellow
 - Attending
22. In your trauma ICU, what *physician* level is **most** responsible for providing elements of the transition process during a patient transfer? (Check one)
- First-year resident
 - Resident
 - Fellow
 - Attending
23. Who is **primarily** tasked with the ICU provider-to-provider hand off? (Check **ALL** that apply)
- APRN- Nurse Practitioner
 - Physician Assistant
 - Attending Physician
 - Resident/Fellow MD/DO
 - Other: please specify _____
24. Approximately how many residents were assigned to the trauma ICU last month? (# ____)
25. In a **one-month period**, approximately how many intensivists care for patients on this unit? (# ____)
26. Does this unit have a physician director? *Yes No *If Yes, more than one? Yes No
27. Do the following kinds of providers practice in the Trauma ICU?
 (Please check one, if yes, specify approximate #)
- | | *Yes (if *yes, estimate #) | No |
|---|-----------------------------------|--------------------------|
| Nurse practitioners employed by hospital..... | <input type="checkbox"/> (# ____) | <input type="checkbox"/> |
| Nurse practitioners employed by physician group..... | <input type="checkbox"/> (# ____) | <input type="checkbox"/> |
| Physician assistants employed by hospital..... | <input type="checkbox"/> (# ____) | <input type="checkbox"/> |
| Physician assistants employed by physician group..... | <input type="checkbox"/> (# ____) | <input type="checkbox"/> |

28. What is the approximate typical provider-to-patient ratio during the **day-time**?

(Check one per provider-type where *Provider : # of Patients*)

1:1 or 2:1 1:2 1:3 1:4 1:5 1:6 >6

Provider Type

RNs.....

	1:5 or less	1:6-8	1:9-11	1:12-14	1:15-18	1:19-21	>21	Not Applicable
APRN- Nurse Practitioner.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Physician Assistant.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Intensivist (MD/DO).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Attending Physician.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

29. In the last month, approximately how often did the unit use temporary nursing agency or float pool nurses? (Check one)

- 0% of shifts
- > 0% and equal or less than 10% of shifts
- > 10% and equal or less than 20% of shifts
- > 20% and equal or less than 50% of shifts
- > 50% of shifts

30. In the trauma ICU, nursing shifts are scheduled to overlap.... (Check one)

- not at all
- If not at all, check here if some staff overlap at least some shifts to update incoming nurses: _____

- 1 - 15 minutes
- 16 - 29 minutes
- 30 minutes
- 31 - 59 minutes
- 60 minutes

Besides the overlap, are some RNs assigned to overlap shifts by > 1 hour (e.g. an RN who works 1300-1700 when most RNs change shift at 1500) Yes No

31. Approximately what percent of trauma ICU RNs have a bachelors or higher nursing degree?: % _____

31a. In the last **two years**, have there been educational initiatives associated with **transitions**?

(Check ALL that apply)

Personnel	Type			Required?			
	Yes	No	Unit based	Hospital based	Outside Agency Provided	Yes	No
Unit leadership.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Staff RN.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Physician/Intensivist.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
APRN (NP)/PA.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

32. At your institution, what **people** have an essential role in the transfer process of trauma patients?

(Select ALL that apply)

- Network of nursing leaders
- Non-clinical bed management roles
- Nurse Practitioner/Physician Assistant roles
- Physicians

33. Is there a role in your institution dedicated to facilitating overall bed management resources?

(e.g., nurse liaisons, clinical resource coordinators, etc.) (Check one)

- Yes No

Tell us about your organization...

34. Senior management has a good idea of the kinds of mistakes that occur in this facility.

Check one

Always	Frequently	Sometimes	Rarely	Never
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

35. The trauma ICU follows a specific process to review performance against defined metrics.

Check one

Always	Frequently	Sometimes	Rarely	Never
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

36. The culture of this organization makes it easy to learn from errors.

Check one

Always	Frequently	Sometimes	Rarely	Never
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

37. Good communication flow exists up the chain of command regarding patient safety issues.

Check one

Always	Frequently	Sometimes	Rarely	Never
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

38. Patient safety decisions are made at the proper level by the most qualified people.

Check one

Always	Frequently	Sometimes	Rarely	Never
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

This is the end of the survey, thank you for your time.

Please use the postage-paid envelope provided to return the completed survey:

Jason Saucier
1229 Chestnut St.
Philadelphia, PA 19107
FRNT 1 PMB #461

or fill out the electronic version: <https://redcap.link/42uj6s0i>