

### MICU Resident Survey

Date:

PGY:

Date of ICU Switch:

References: Sheth et al. Pediatrics 2016; Saag et al. JGIM 2017; Hinami et al. JHM 2009

#### Performance Questions:

1. Did you participate in bedside handoff (“warm handoff”) for your last ICU rotation service change?
  - a. Yes
  - b. No
2. Did you send or receive an email sign-out for your last ICU rotation service change?
  - a. Yes
  - b. No
3. In your last ICU rotation service change, did you use a handoff checklist to facilitate bedside handoff?
  - a. Yes
  - b. No
  - c. N/A
4. If you performed warm handoff in your last ICU rotation service change, how much EXTRA TIME did it take to perform warm handoff?
  - a. No additional time
  - b. 1-30 minutes extra
  - c. 31-60 minutes extra
  - d. More than one hour extra
  - e. N/A
5. If you performed warm handoff in your last ICU rotation service change, how many patients did you round on at the bedside?
  - a. 0-2
  - b. 3-6
  - c. 7-10
  - d. >10
  - e. Did not perform bedside rounds
6. Did you use Tele-ICU video conferencing or FaceTime to facilitate warm handoff?
  - a. Yes
  - b. No
7. Was the patient’s nurse present and involved in your warm handoff?
  - a. Yes
  - b. No
  - c. N/A

**Agreement, Quality, Satisfaction Questions:**

(Please select your level of agreement to the following statements)

8. ICU end-of-rotation transitions in care (also called service transitions) are a vulnerable time for patients.
  - a. Strongly Agree
  - b. Agree
  - c. Disagree
  - d. Strongly Disagree
  
9. I am overall satisfied with the current ICU service transition PROCESS.
  - a. Strongly Agree
  - b. Agree
  - c. Disagree
  - d. Strongly Disagree
  
10. I am satisfied with the INFORMATION currently conveyed during ICU service transition.
  - a. Strongly Agree
  - b. Agree
  - c. Disagree
  - d. Strongly Disagree
  
11. Using the current ICU transition process, I was CERTAIN about the plan for each patient on the first day of my rotation.
  - a. Strongly Agree
  - b. Agree
  - c. Disagree
  - d. Strongly Disagree
  
12. Using the current ICU transition process, I was COMFORTABLE on the first day of my rotation.
  - a. Strongly Agree
  - b. Agree
  - c. Disagree
  - d. Strongly Disagree
  
13. Assuming warm handoffs take extra time to complete, they are still worthwhile.
  - a. Strongly Agree
  - b. Agree
  - c. Disagree
  - d. Strongly Disagree
  
14. Warm handoffs are safer for patients compared to written/verbal sign out alone.
  - a. Strongly Agree
  - b. Agree
  - c. Disagree
  - d. Strongly Disagree

**Frequency Questions:**

15. After your ICU service transition, how often did you discover information that the preceding physicians should have communicated during handoff?
  - a. Always
  - b. Often
  - c. Sometimes
  - d. Rarely
  - e. Never
  
16. After your ICU service transition, how often did something bad happen (or almost happen) because of missing or unclear information?
  - a. Always
  - b. Often
  - c. Sometimes
  - d. Rarely
  - e. Never
  
17. After your ICU service transition, how often were patients and/or families made aware that the ICU resident team was transitioning permanently?
  - a. Always
  - b. Often
  - c. Sometimes
  - d. Rarely
  - e. Never
  
18. After your ICU service transition, how often were one or more patients harmed due to miscommunication during handoff?
  - a. Always
  - b. Often
  - c. Sometimes
  - d. Rarely
  - e. Never

Additional Comments/Examples/Clarifications:

### MICU Attending Survey

Date:

References: Maxson et al. 2014, Chaboyer et al. 2009, Sheth et al. Pediatrics 2016; Saag et al. JGIM 2017; Hinami et al. JHM 2009

1. How many years of experience do you have as an attending physician working with the residents in a MICU?
  - a. Less than 1 year
  - b. Between 1-5 years
  - c. Between 6-10 years
  - d. More than 10 years
  
2. Are you aware of when the residents end-of-rotation transition in care occurs?
  - a. Yes
  - b. No
  
3. If yes, please explain how were you notified and when.
  
  
  
  
  
  
  
  
  
  
4. Are you aware of any guidelines or requirements issued by the Internal Medicine Residency Program for providing handoff at the end of a rotation?
  - a. Yes
  - b. No
  
  
  
  
  
  
  
  
  
  
5. Do you alter any aspect of your patient care when you have patients exposed to this monthly house staff care transition?
  - a. Yes
  - b. No
  
  
  
  
  
  
  
  
  
  
6. If yes, please explain what alterations you made and why.
  
  
  
  
  
  
  
  
  
  
7. Resident physicians were prepared adequately to care for their patients in the ICU after their service transition handoff.
  - a. Strongly Agree
  - b. Agree
  - c. Disagree

- d. Strongly Disagree
8. Information relayed from resident to resident at end-of-rotation transition of care is accurate.
    - a. Strongly Agree
    - b. Agree
    - c. Disagree
    - d. Strongly Disagree
  9. ICU end-of-rotation transitions in care between resident physicians are a vulnerable time for patients.
    - a. Strongly Agree
    - b. Agree
    - c. Disagree
    - d. Strongly Disagree
  10. Overall, I am satisfied with the current ICU house staff end of service transition PROCESS.
    - a. Strongly Agree
    - b. Agree
    - c. Disagree
    - d. Strongly Disagree
  11. I am satisfied with the INFORMATION currently conveyed by house staff during their ICU end of service transition.
    - a. Strongly Agree
    - b. Agree
    - c. Disagree
    - d. Strongly Disagree
  12. In the LAST THREE MONTHS, how often have you observed **patient harm** that was *attributable to end of rotation* care transitions between house staff?
    - a. Always
    - b. Often
    - c. Sometimes
    - d. Rarely
    - e. Never
  13. In the LAST THREE MONTHS, how often did something bad happen (or almost happen) because of missing or unclear information that was *attributable to end of rotation* care transitions between house staff?
    - a. Always
    - b. Often
    - c. Sometimes
    - d. Rarely
    - e. Never
  14. Did you participate in the resident “warm handoff” (also called bedside face to face handoff) for the most recent resident end of rotation care transition?

- a. Yes
  - b. No
15. If yes, please explain when this occurred and the length of the warm handoff.
16. Were you included in Tele-ICU video conferencing or FaceTime to facilitate resident physician warm handoff?
- a. Yes
  - b. No
17. Was the patient and/or family involved in the house staff warm handoff?
- a. Yes
  - b. No
  - c. Unsure
18. Resident physician warm handoffs (in-person bedside handoffs) are safer for patients compared to written/verbal sign out alone.
- a. Strongly Agree
  - b. Agree
  - c. Disagree
  - d. Strongly Disagree
19. Do you have any additional comments, observations or questions about resident provider transitions of care?
20. What ideas do you have about how to improve patient care around this period of time?



- a. Strongly Agree
  - b. Agree
  - c. Disagree
  - d. Strongly Disagree
28. ICU end-of-rotation transitions in care (also called service transitions) between resident physicians are a vulnerable time for patients.
- e. Strongly Agree
  - f. Agree
  - g. Disagree
  - h. Strongly Disagree
29. I am overall satisfied with the current ICU resident physician end of service transition PROCESS.
- a. Strongly Agree
  - b. Agree
  - c. Disagree
  - d. Strongly Disagree
30. I am satisfied with the INFORMATION currently conveyed by the resident physicians during ICU resident physician end of service transition.
- a. Strongly Agree
  - b. Agree
  - c. Disagree
  - d. Strongly Disagree
31. In your PAST EXPERIENCE, how often have you observed **patient harm** that was attributable to *end of rotation* care transitions between resident physician providers?
- a. Always
  - b. Often
  - c. Sometimes
  - d. Rarely
  - e. Never
32. In your PAST EXPERIENCE, how often did something bad happen (or almost happen) because of missing or unclear information that was attributable to *end of rotation* care transitions between resident physician providers?
- a. Always
  - b. Often
  - c. Sometimes
  - d. Rarely
  - e. Never
33. Did you participate in the resident “warm handoff” (also called bedside face to face handoff) for the most recent resident end of rotation care transition?
- a. Yes
  - b. No

