Title of Manuscript: The parallel encounter: an alternative to the traditional serial traineeattending patient evaluation model

Author List:

Hayley E. Andre, MD

Chief Resident, Department of Emergency Medicine
University of Michigan Emergency Medicine Residency
Ann Arbor, MI
whayley@med.umich.edu

Michelle Daniel, MD, MHPE

Associate Professor, Department of Emergency Medicine
Assistant Dean for Curriculum, Medical School
University of Michigan Medical School
Ann Arbor, MI
micdan@med.umich.edu

Mary R.C. Haas, MD

Instructor, Department of Emergency Medicine
University of Michigan Medical School
Ann Arbor, MI
calderom@med.umich.edu
*Corresponding Author

Running Title: The parallel encounter

This is the author manuscript accepted for publication and has undergone full peer review but has not been through the copyediting, typesetting, pagination and proofreading process, which may lead to differences between this version and the <u>Version of Record</u>. Please cite this article as <u>doi:</u> 10.1002/AET2.10491

This article is protected by copyright. All rights reserved

strategies, teamwork

Financial support: There are no funding sources to disclose.

Disclosures: The authors have no conflicts to disclose.

Author Contributions: MD, MRCH and HA developed the concept for the paper and jointly developed and revised it. MRCH takes responsibility for the paper as a whole.

Keywords: bedside teaching, clinical reasoning, faculty development, instruction/teaching

Acknowledgments: None

1	
2	DR. MARY R C HAAS (Orcid ID : 0000-0002-9506-5928)
3	
4	
5	Article type : New Ideas in B-E-D-side Teaching
6	
7	
8	Title of Manuscript: The parallel encounter: an alternative to the traditional serial trainee
9	attending patient evaluation model
10	Author List:
11	
12	Hayley E. Andre, MD
13	Chief Resident, Department of Emergency Medicine
14	University of Michigan Emergency Medicine Residency
15	Ann Arbor, MI
16	whayley@med.umich.edu
17	
18	Michelle Daniel, MD, MHPE
19	Associate Professor, Department of Emergency Medicine
20	Assistant Dean for Curriculum, Medical School
21	University of Michigan Medical School
22	Ann Arbor, MI
23	micdan@med.umich.edu
24	
25	Mary R.C. Haas, MD
26	Instructor, Department of Emergency Medicine
27	University of Michigan Medical School
28	Ann Arbor, MI
29	calderom@med.umich.edu
30	*Corresponding Author
31	
32	Running Title: The parallel encounter

Keywords: bedside teaching, clinical reasoning, faculty development, instruction/teaching
 strategies, teamwork

Word Count: 499

Presentations: None

Financial support: There are no funding sources to disclose.

Disclosures: The authors have no conflicts to disclose.

Author Contributions: MD, MRCH and HA developed the concept for the paper and jointly developed and revised it. MRCH takes responsibility for the paper as a whole.

Acknowledgments: None

The parallel encounter: an alternative to the traditional serial trainee-attending patient evaluation

50 model

Background

The emergency department environment requires the clinician-educator to utilize adaptive teaching strategies in order to balance education with efficiency and patient care.^{1–3} The traditional model of trainee-attending patient evaluation occurs in series; the trainee independently evaluates the patient and presents the case and proposed plan to the attending physician. The attending physician subsequently evaluates the patient and returns to provide feedback and adjust the plan as needed. The traditional model may reduce efficiency and increase length of stay due to the need for the trainee and attending physician to evaluate the patient one after another.⁴ Additionally, the presentation of the history and exam consumes much of the teaching encounter, reducing time to focus on medical decision making. Lastly, overreliance on the oral case presentation to assess competency and inform entrustment may result in supervision failure and bias propagation.⁵ Recently, alternative approaches to the

traditional serial model of attending-trainee patient evaluation such as swarming have emerged in the literature.^{6,7}

Explanation

63

64

65

66

67 68

69

70

71

72

73

74

75

76

77

78

79

80

81

82

83

84

85

86

87

88

89

90

91

At the University of Michigan, an academic four-year emergency medicine residency program, several attending physicians have utilized the parallel encounter. In this alternative supervisory model, the attending and trainee independently evaluate the patient. The attending may evaluate the patient before or after the resident, but does not enact a care plan prior to discussion with the resident. In contrast to the traditional oral case presentation, the trainee does not present the history and physical exam. Rather, the dyad jointly discusses and formulates the assessment and plan. Following the discussion, the resident enacts the care plan and remains the primary point of contact for the patient. This model may be applied to one or more encounters depending on departmental flow and learner needs. **See figure 1 and figure 2**.

Description

Experience utilizing the parallel model in conjunction with informal feedback from trainees has provided insights into its strengths and weaknesses. It allows more time for discussion of the assessment and plan and greater focus on clinical reasoning. In the context of the RIME (reporter, interpreter, manager, educator) framework, this translates to increased emphasis on assessing the interpreter and manager abilities of the learner. 8 Additionally, the parallel encounter allows for integration of two independent assessments of the patient, reducing the likelihood of diagnostic momentum, premature closure and confirmation bias. 9 Rather than waiting to hear the trainee's presentation, the attending physician can evaluate the patient at any time, potentially enhancing efficiency, patient satisfaction and outcomes by reducing time to initial provider contact. In order to protect resident autonomy, the attending must combat the urge to place orders or explain the care plan to the patient prior to the joint discussion with the resident. This model may disadvantage junior learners who require continued practice of the traditional oral case presentation. Some learners also may prefer to verbalize the patient's history and exam in order to synthesize clinical data while formulating an assessment and plan. Future study will assess trainee and attending reaction and impact on patient satisfaction and time to initial provider.

92 REFERENCES

93

- 94 1. Hoffman KG, Donaldson JF. Contextual tensions of the clinical environment and their influence on teaching and learning. Med Educ. 2004;38(4):448-454.
- 96 2. Berger TJ, Ander DS, Terrell ML, Berle DC. The impact of the demand for clinical
- productivity on student teaching in academic emergency departments. Acad Emerg Med.
- 98 2004;11(12):1364-1367.
- 3. Atzema C, Bandiera G, Schull MJ. Emergency department crowding: the effect on resident
 education. Ann Emerg Med. 2005;45(3):276-281.
- James C, Harper M, Johnston P, Sanders B, Shannon M. Effect of trainees on length of stay
 in the pediatric emergency department. Acad Emerg Med. 2009;16(9):859-865.
- 5. Landreville JM, Cheung WJ, Hamelin A, Frank JR. Entrustment checkpoint: clinical
 supervisors' perceptions of the emergency department oral case presentation. Teaching and
 Learning in Medicine. 2019;31(3):250-257.
- 6. Perniciaro JL, Schmidt AR, Pham PK, Liu DR. Defining "swarming" as a new model to
 optimize efficiency and education in an academic emergency department. AEM Educ Train.
 2020;4(1):43-53.
- 7. Perniciaro J, Liu D, Liu D. Swarming: a new model to optimize efficiency and education in an academic emergency department. Ann Emerg Med. 2017;70(3):435-436.
- 8. Pangaro L. A new vocabulary and other innovations for improving descriptive in-training evaluations. Acad Med. 1999;74(11):1203-1207.
- 9. Daniel M, Khandelwal S, Santen SA, Malone M, Croskerry P. Cognitive debiasing strategies for the emergency department. AEM Educ Train. 2017;1(1):41-42.

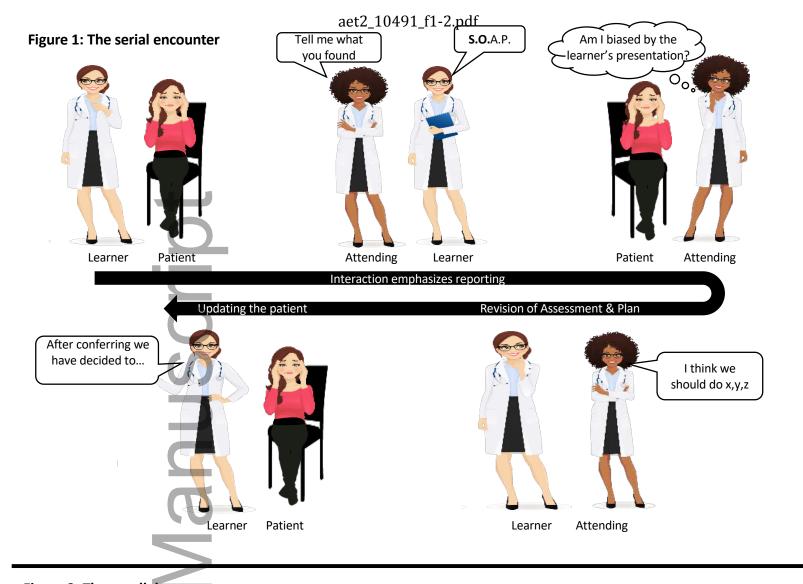


Figure 2: The parallel encounter

