Lehigh Valley Health Network **LVHN Scholarly Works**

Department of Emergency Medicine

Emergency Medicine Resident On Shift Clinical Teaching Efficacy as Measured by Student Evaluation and Self-Reflection Using a Previously Validated Metric

Alan R. Cherney MD Lehigh Valley Health Network, Alan R.Cherney@lvhn.org

Dawn M. Yenser Lehigh Valley Health Network, Dawn.Yenser@lvhn.org

Amy B. Smith PhD Lehigh Valley Health Network, amy b.smith@lvhn.org

Kevin Weaver D.O., FACOEP Lehigh Valley Health Network, kevin r.weaver@lvhn.org

Charles C. Worrilow MD Lehigh Valley Health Network, charles.worrilow@lvhn.org

See next page for additional authors

Follow this and additional works at: https://scholarlyworks.lvhn.org/emergency-medicine



Part of the Emergency Medicine Commons

Published In/Presented At

Cherney, A., Yenser, D., Smith, A., Weaver, K., Worrilow, C., & Kane, B. (2016, April 6). Emergency Medicine Resident On Shift Clinical Teaching Efficacy as Measured by Student Evaluation and Self-Reflection Using a Previously Validated Metric. Presentation presented at: PaACEP Scientific Assembly, King of Prussia, Pa.

Quinn S., Worrilow C., Yenser D., Jayant D., Johnson S., Bailey B., Eustice E., Kohlhepp J., Rogers R., & Kane B. (2016, April). Emergency Medicine Resident On Shift Clinical Teaching Efficacy as Measured by Student Evaluation and Self-Reflection Using a Previously Validated Metric. Presentation presented at: CORD Academic Assembly Advances in Education Research and Innovations Forum.

This Presentation is brought to you for free and open access by LVHN Scholarly Works. It has been accepted for inclusion in LVHN Scholarly Works by an authorized administrator. For more information, please contact LibraryServices@lvhn.org.

n R. Cherney MD; Dawn M. Yens orrilow MD; and Bryan G. Kane M	D	

EM Resident On Shift Clinical Teaching Efficacy as Measured by Student Evaluation and Self-Reflection Using a Previously Validated Metric

Bryan Kane, MD

A PASSION FOR BETTER MEDICINE."



Acknowledgements

Alan Cherney, Dawn Yenser, Amy Smith, Kevin Weaver, Charles Worrilow

- This project was supported by an unrestricted research grant by the Anderson Trust
 - The authors have no conflicts to declare

Background

- ED as a rich, unique, challenging educational environment
- Estimated that 33% of student education comes from residents
- A formal teaching Milestone was dropped from early drafts
 - Current ACGME EM project mentions teaching in 6 Milestones

Objectives

The purpose of this study is to assess students' perceptions of and senior residents' self-assessments of EM resident's clinical teaching ability while on shift in the ED.



Methods

- IRB approved prospective study supported by a research grant
- PGY 1-4 dually approved EM residency
 - At a regional medical campus
- Previously validated metric of EM attending teaching efficacy
 - Steiner et al, AEM 2000

Methods

- Students anonymously evaluate the teaching received
- PGY 3/4 self-assessed their teaching
- Demographics included prior knowledge & training in clinical teaching models
- Data gathered in New Innovations[™]
 - Analyzed using descriptive statistics

Results: Initial 12 Months

- Enrolled 74 students avg. age 27.9
 - 52.7% female
- From 25 Medical and 6 PA schools
 - 48 (64.9%) were MS, all 4th years
- Prior knowledge of teaching models by students was limited
 - 86.5% had no prior knowledge of either model (SNAPPS or 1 Minute Preceptor)

Results

- Enrolled 42 residents, avg. age 32.0
 - 26.2% female
- Prior knowledge noted by 38.1%
- Prior training was most commonly 1-4 hours (31%)
 - -64.3% having from 1 to >4 hours
- 517 on-shift teaching assessments

Figure One: Student Assessment of Resident Teaching Using the ER Scale

	Didactic	Clinical	Approachable	Helpful
Students Overall N (%)			- A-1	3
Outstanding	180 (34.8)	196 (37.9)	275 (53.2)	297 (57.4)
Above Average	144 (27.8)	137 (26.5)	70 (13.5)	53 (10.3)
Average	32 (6.2)	25 (4.8)	13 (2.5)	9 (1.7)
Below Average	1 (0.2)	2 (0.4)	2 (0.4)	1 (0.2)
Unacceptable	0	0	0	0
Not Enough Time	34 (6.6)	34 (6.6)	34 (6.6)	34 (6.6)
Missing	126 (24.4)	123 (23.8)	123 (23.8)	123 (23.8)
Med Students N (%)				
Outstanding	113 (32.3)	126 (36.0)	196 (56.0)	192 (54.8)
Above Average	102 (29.1)	97 (27.7)	41 (11.7)	45 (12.9)
Average	28 (8.0)	22 (6.3)	8 (2.3)	9 (2.6)
Below Average	1 (0.3)	2 (0.6)	2 (0.6)	1 (0.3)
Unacceptable	0	0	0	0
Not Enough Time	19 (5.4)	19 (5.4)	19 (5.4)	19 (5.4)
Missing	87 (24.9)	84 (24.0)	84 (24.0)	84 (24.0)
PA Students N (%)				
Outstanding	67 (40.1)	70 (41.9)	79 (47.3)	105 (62.9)
Above Average	42 (25.2)	40 (24.0)	29 (17.4)	8 (4.8)
Average	4 (2.4)	3 (1.8)	5 (3.0)	0
Below Average	0	0	0	0
Unacceptable	0	0	0	0
Not Enough Time	15 (9.0)	15 (9.0)	15 (9.0)	15 (9.0)
Missing	39 (23.3)	39 (23.3)	39 (23.3)	39 (23.3)

Figure Two: Resident Self-Assessment of Their Teaching Using the ER Scale

	Didactic	Clinical	Approachable	Helpful
Residents Overall N (%)			0.00	(a)
Outstanding	25 (4.8)	25 (4.8)	48 (9.3)	24 (4.6)
Above Average	159 (30.8)	181 (35.0)	175 (33.8)	183 (35.4)
Average	147 (28.4)	125 (24.2)	112 (21.7)	126 (24.4)
Below Average	6 (1.2)	5 (1.0)	2 (0.4)	3 (0.6)
Unacceptable	0	0	0	0
Not Enough Time	129 (24.9)	129 (24.9)	129 (24.9)	129 (24.9)
Missing	51 (9.9)	52 (10.1)	51 (9.9)	52 (10.1)
PGY3 N (%)				
Outstanding	2 (1.0)	4 (2.0)	18 (8.9)	5 (2.5)
Above Average	65 (32.3)	82 (40.8)	88 (43.8)	87 (43.3)
Average	83 (41.3)	65 (32.3)	49 (24.4)	60 (29.8)
Below Average	5 (2.5)	4 (2.0)	0	3 (1.5)
Unacceptable	0	0	0	0
Not Enough Time	34 (16.9)	34 (16.9)	34 (16.9)	34 (16.9)
Missing	12 (6.0)	12 (6.0)	12 (6.0)	12 (6.0)
PGY4N (%)	2.1			8
Outstanding	23 (7.3)	21 (6.6)	30 (9.5)	19 (6.0)
Above Average	94 (29.8)	99 (31.3)	87 (27.5)	96 (30.3)
Average	64 (20.2)	60 (19.0)	63 (20.0)	66 (20.9)
Below Average	1 (0.3)	1 (0.3)	2 (0.6)	0
Unacceptable	0	0	0	0
Not Enough Time	95 (30.1)	95 (30.1)	95 (30.1)	95 (30.1)
Missing	39 (12.3)	40 (12.7)	39 (12.3)	40 (12.7)

Conclusions

Student impressions of teaching were more favorable than resident self-assessment. There may be room for to improve EM resident teaching



A PASSION FOR BETTER MEDICINE."

