Disparities Concerning Medical Care Feedback in Emergency Medical Services Rebecca E. Cash, MPH, NRP¹, Remle P. Crowe, MS, NREMT¹, Severo A. Rodriguez, PhD, NRP^{1,2}, Roger Levine, PhD³, Ashish R. Panchal, MD, PhD^{1,2} ¹The National Registry of EMTs, ²Center for EMS, Wexner Medical Center, The Ohio State University, ³ Consultant

BACKGROUND

- Feedback to healthcare providers regarding the medical care they have provided may lead to improved patient care and outcomes.
- In the prehospital setting, there is some evidence that this feedback is not provided regularly.¹ Little is known about prevalence of medical care feedback and factors associated with receiving this specific type of feedback in the prehospital setting.

OBJECTIVES

- Describe the prevalence of medical care feedback in the prehospital setting.
- Identify characteristics associated with receiving medical care feedback.

METHODS

- Study Design & Setting: A cross-sectional census survey was administered in October 2014 to nationally-certified EMS providers concerning feedback received in the previous 30 days.
 - This is a sub-analysis of specifically medical care feedback from the larger project assessing several types of prehospital feedback.
- Inclusion Criteria: Currently practicing patient care providers (Emergency Medical Technician [EMT] or higher) in non-military and non-tribal settings.
- Data Analysis: Descriptive statistics were calculated and a multivariable logistic regression model was constructed to assess the association between receiving medical care feedback and demographic/agency characteristics.

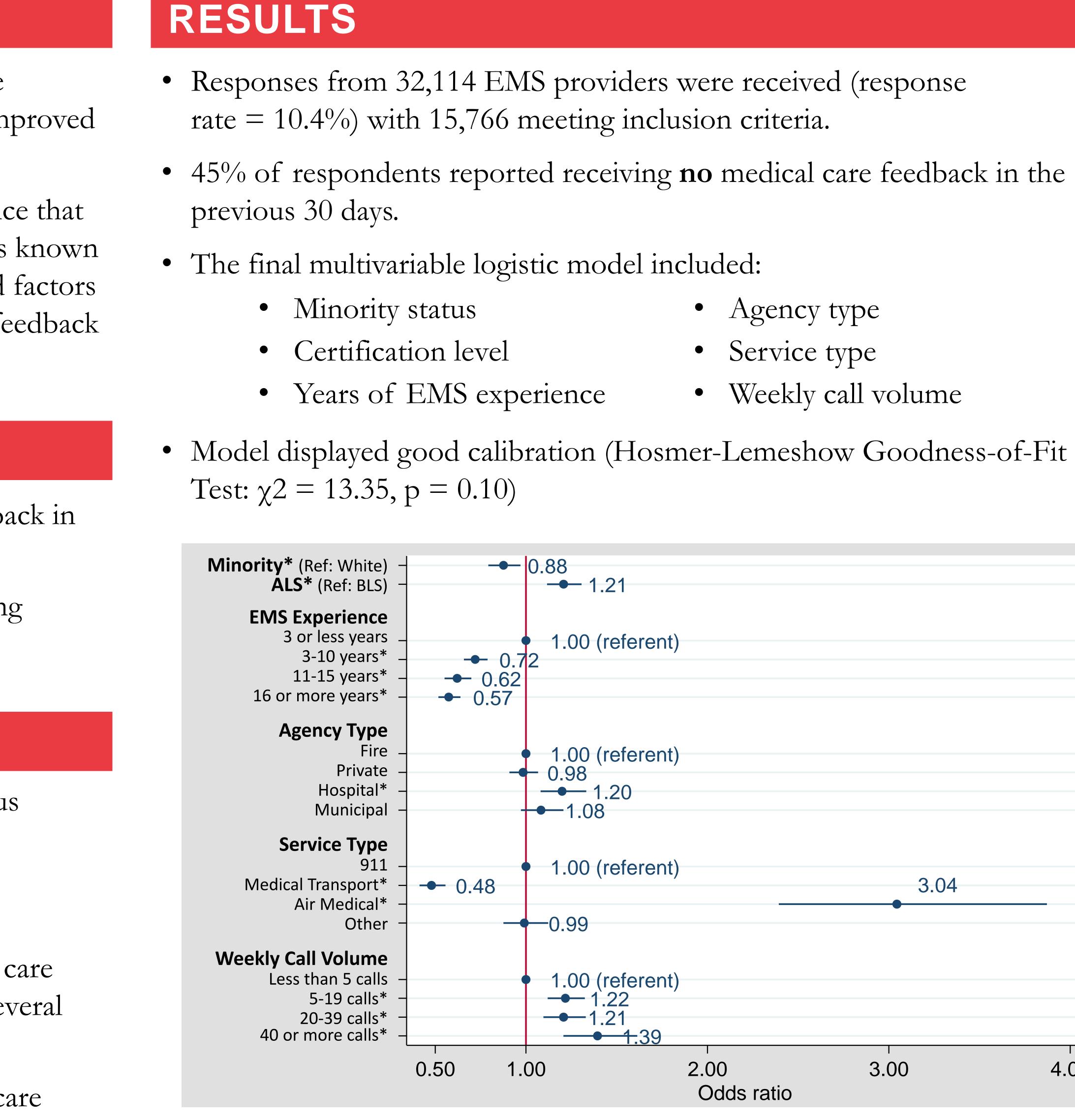


Figure 1: Forest plot of odds ratios for factors associated with receiving medical care feedback among nationally-certified EMS professionals. Odds ratio (OR) estimates displayed with 95% confidence intervals. OR to the left of the red line favor the referent, while those that cross the red line are non-significant. Significant factors denoted with asterisk (p < 0.05).

Abbreviations: ALS = advanced life support (Advanced EMT, paramedic); BLS = basic life support (EMT).

45% of respondents reported receiving no medical care feedback in the

- Agency type
- Service type
- Weekly call volume

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2.00	3.00	4.00
	5.00	4.00
Odds ratio		

- Bias from self-reported data possible.
- The content of feedback and resulting practice changes were not assessed.
- Non-response bias: a non-responder survey showed no significant differences with regards to receiving feedback among respondents and non-respondents.

CONCLUSIONS

- Almost half of EMS professionals did not receive any medical care feedback in a 30 day period.
- Disparities in receiving feedback exist with different provider levels and service settings.
 - Those providing air medical services had a threefold increase in odds of receiving medical care feedback, whereas those providing medical transport/convalescent services had a 52% decrease in odds.

 - ALS-level respondents had increased odds of medical care feedback.
 - Minority EMS professionals had decreased odds of receiving medical care feedback.
 - Odds of receiving medical care feedback decreased with years of experience in EMS.
 - - Higher call volumes were associated with increased odds of receiving medical care feedback.



1. Mock EF, Wrenn KD, Wright SW, Eustis TC, Slovis CM. Feedback to Emergency Medical Services Providers: The Good, the Bad, and the Ignored. Prehosp Disaster Med. 1997;12(02):74-77.



LIMITATIONS

REFERENCES