

# What is the EMS Treatment Penalty for Not Speaking English?

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## Intro

- Patients with Limited English Proficiency (LEP) represent one of the most vulnerable patient communities. <sup>(1)</sup>
- Communication challenges result in substantial health and healthcare disadvantages. <sup>(2,3)</sup>
- The LEP population has increased 80% since 1980 it is unknown if patients with LEP receive a substandard of care in EMS. <sup>(1)</sup>
- The effectiveness and utilization rate of pre-hospital language interpreters is currently unknown.

## Methods

- Cross-sectional, retrospective study with all transported pre-hospital adult trauma patients from 2015 to 2021 in Portland, Oregon.
- LEP status was identified by narrative key word searches and manual review.
- Two outcome measures: pain screening and pain medication administration.

## Results

- A population of 57,693 English speaking patients and 1,155 LEP patients were examined by EMS.
- 48% of patients with LEP received a language interpreter (of any form), however a qualified medical interpreter was used in only 3% of interactions despite field availability.
- In models adjusted for demographic and clinical confounders, LEP patients were 63% less likely to receive a pain assessment and 23% less likely to receive pain medications of any kind for their traumatic injury when compared to English speaking patients.
- The use of a language interpreter only marginally improved the likelihood of receiving a pain assessment but may have eliminated pain medication treatment disparities for patients with LEP, however these advantages did not equally benefit all race/ethnicity categories.

## Conclusion

- This study helps to quantify the substandard medical treatment patients with LEP receive in EMS.
- Interpreter use, albeit concerningly low, when used, may mitigate some of the treatment disparities for patients with LEP.
- Research is needed to understand barriers to interpreter use and its varied efficacy for different racial and ethnic minority patients.

:30 second read

2% of trauma patients did not speak English

Less than half of them received any form of language interpreter

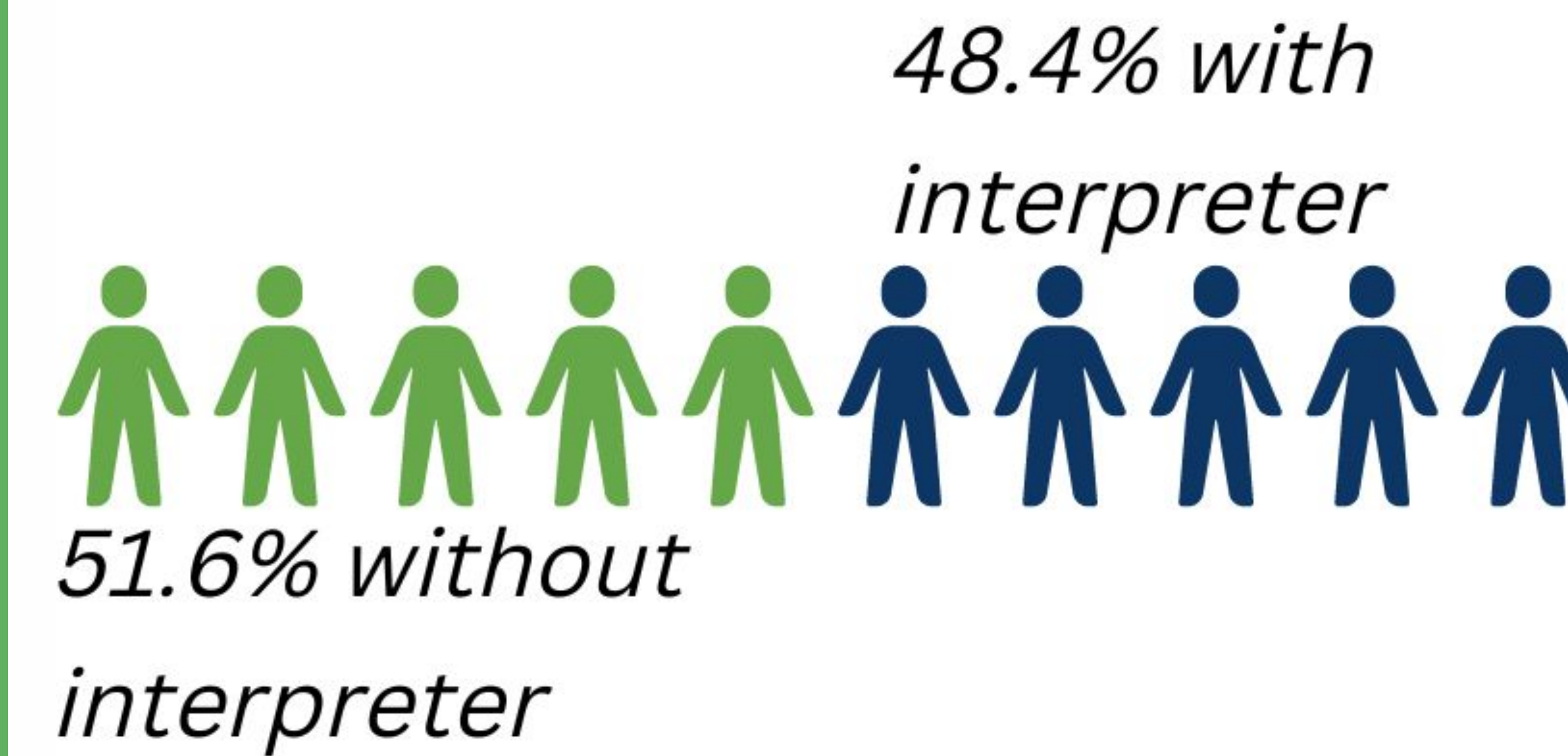
Only 3% received a qualified medical interpreter despite field availability

Non-English trauma patients were 63% less likely to receive a pain screening

Non-English trauma patients were 23% less likely to receive any pain medications

Using a language interpreter only partially helped, but not for all racial and minority groups

non-English speaking patients



## Type of interpreter used

Family or Friends	60.3%
Bystander	20.2%
Interpreter Used from Unknown Source	9.1%
Official Interpreter Resource (Language Line or Fire Depart.)	5.5%
EMS Crew Member Informal Interpreter	3.9%
Informal Tech Tools (Google translate, etc.)	1.3%

## Pain Screen and Pain Medication in Three Patient Groups

