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Who Skips the Ambulance? A Study Examining Which Patients Choose Private Vehicle Transport Over EMS in Trauma

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Who Skips the Ambulance? A Study Examining Which Patients Choose Private Vehicle Transport Over EMS in Trauma

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Disclosures

- **No Financial Disclosures**



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Background

- Nationally, 10% of trauma patients arrive by private vehicle transport (PVT)
- Current data suggests trauma patients that utilize EMS over PVT have worse outcomes
- Hypothesis: Patient characteristics and outcomes in Detroit will mirror PVT nationally



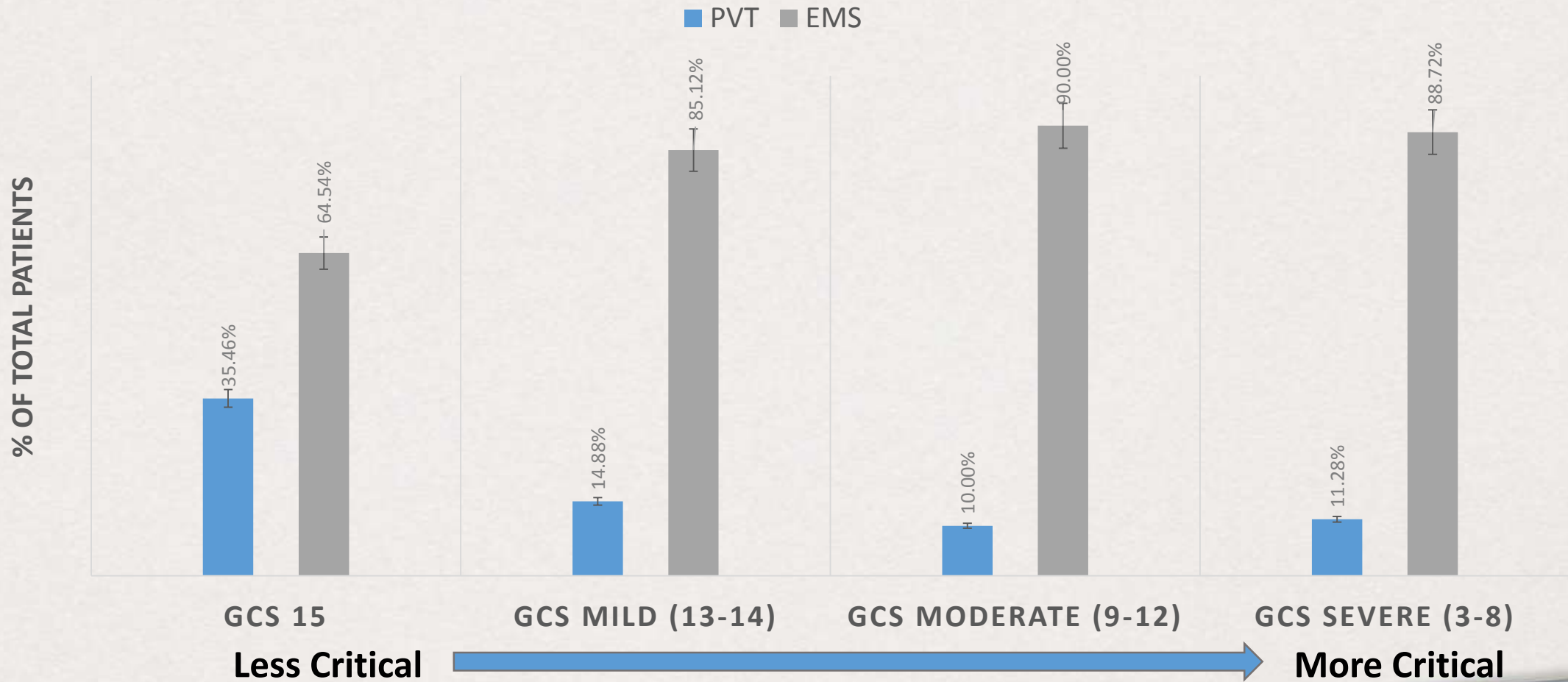
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Methods

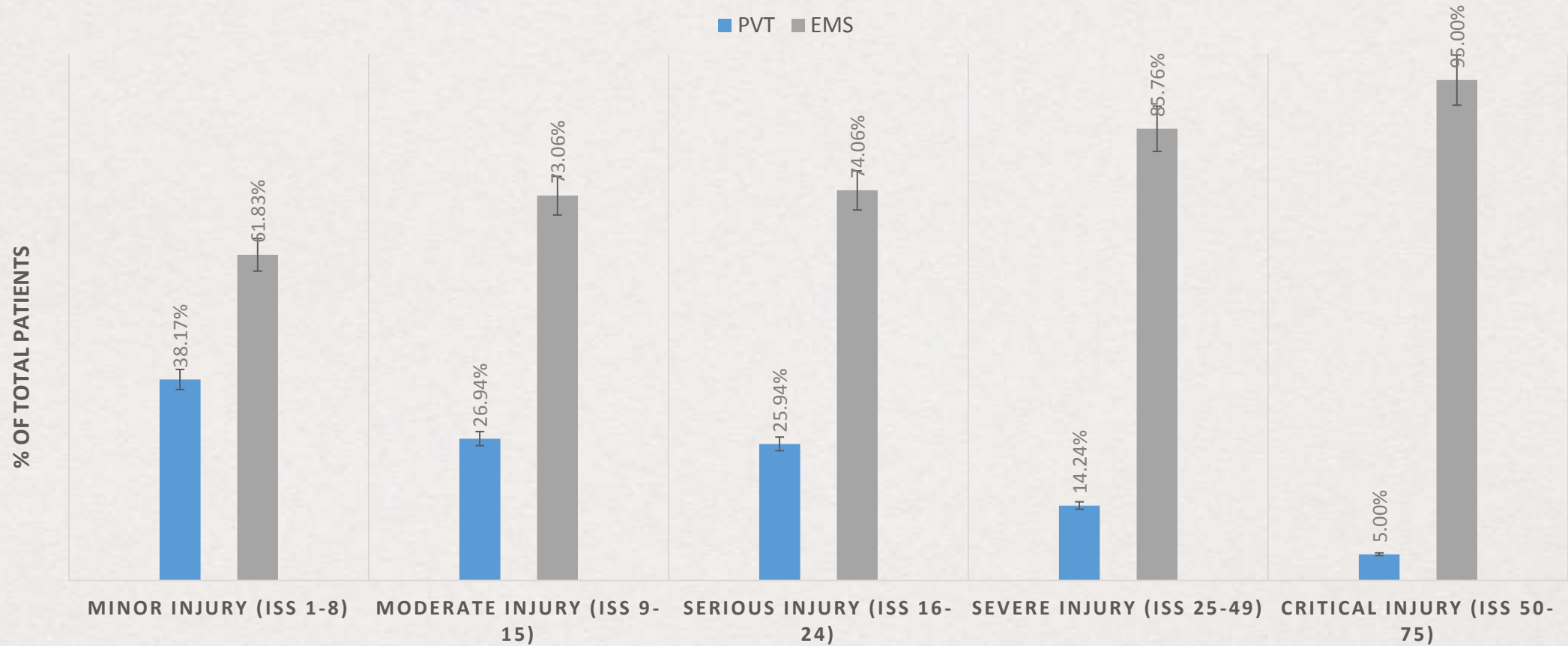
- Retrospective study from 2013-2017
- Academic, regional, Level 1 Trauma Center in Detroit
- Total patients: 4568 (PVT n = 1498, $p < 0.01$)
 - **Inclusion:** admitted, transferred out of hospital, or died in the ED
 - **Exclusion:** transferred in, burn patients, pediatric patients



Results - GCS in PVT and EMS Patients



Results - Injury Severity Score in PVT and EMS Patients



Less Critical



More Critical



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Results Summary

	National	Detroit
Use of PVT	10%	33%
Fall or firearm		
GCS		
Insurance Coverage		
Injury from MVA		
Admission to ICU		
Injury to critical locations		



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Results Summary

Insignificant Characteristics

Age, Gender, Race

Presence of Medical Comorbidities

Intoxication Status

Cause of Trauma

Disposition to General Floor

Operative Trauma



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Conclusions

- PVT rate 3x higher in Detroit
- Patients arriving by PVT are in less critical condition
- Patient characteristics reflect those described in literature, supporting our hypothesis
- We tested insurance coverage, that were not tested at other sites
- Regional behaviors play a role in mode of transport in trauma



Thank You



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