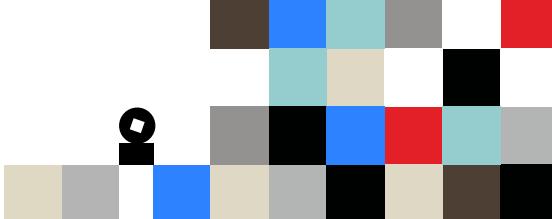


# ImageTrend Short Report



## January 2026 Short Report: Prehospital Blood Administration

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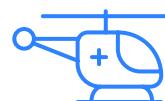
### Scope of Prehospital Blood Administration

Timely administration of blood products in patients experiencing hemorrhagic shock is a critical determinant of resuscitation and improved survival outcomes.<sup>1,2</sup> Prehospital blood administration programs, particularly in ground units, have historically been limited due to logistic, cost, and scope of practice considerations.<sup>3</sup> However, attention from NHSTA on their role in reducing trauma fatalities and coordinated advocacy efforts by the Prehospital Blood Transfusion Coalition have helped to bring prehospital blood administration programs to forefront of national priorities in EMS care.<sup>3,4</sup>

In the 2024 Collaborate dataset, **3,879** 911 responses received prehospital blood administration

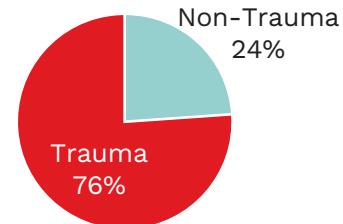


**10%** were ground transport (5 in every 100,000 ground transports\*)



**88%** were air transport (5 in every 100 air transports\*)

### 911 Response Reason

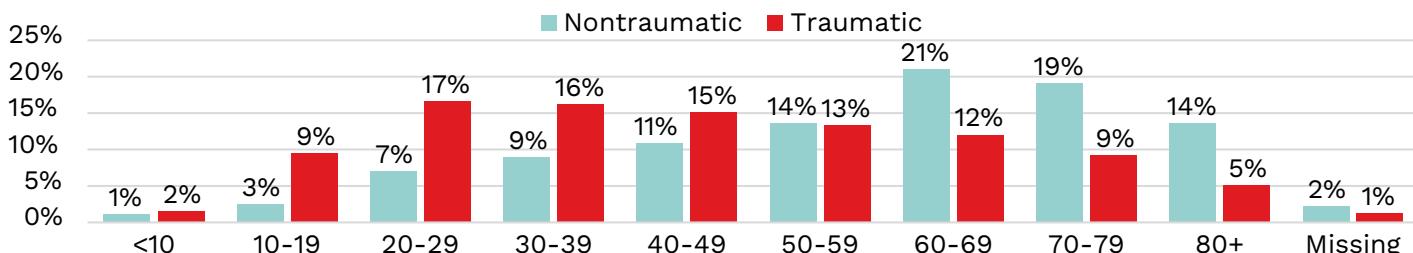


\*Note: not all agencies included in this dataset had blood administration programs. Rates represent all agencies in the denominator for national level-snapshot of prehospital blood administration in 2024

### Who is Receiving Blood in the Prehospital Setting?

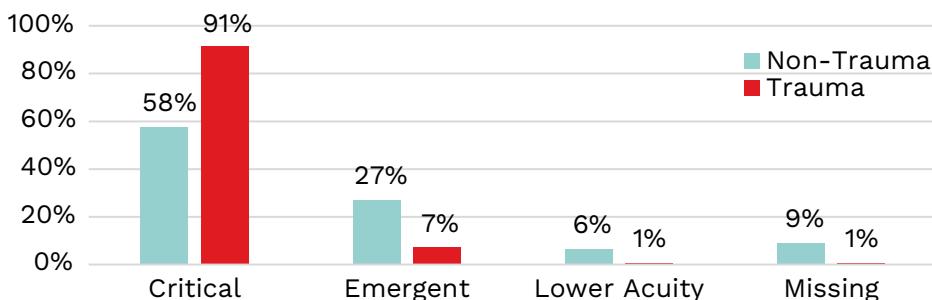
- **32%** were female and **67%** were male
  - A higher proportion of male patients who received prehospital blood administration had trauma as the reason for 911 response (**80%** vs. **68%** of female patients)

### Age Distribution of Pre-Hospital Blood Administration Recipients by 911 Response Reason

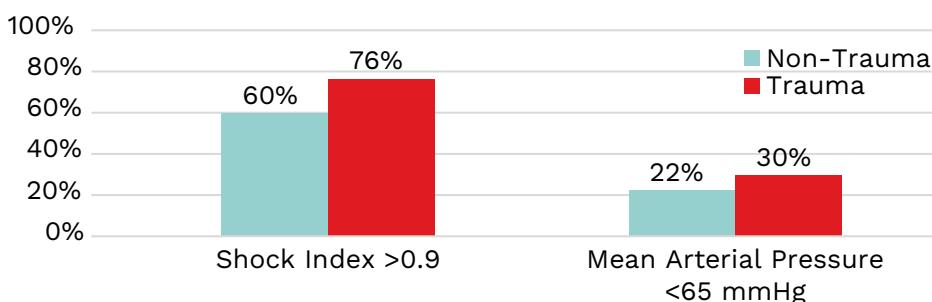


## Prehospital Blood Recipient Characteristics

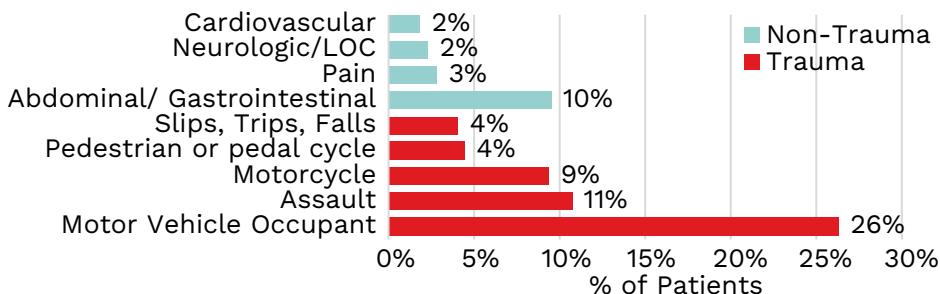
### Initial Acuity



### Indicators of Shock on First Measured Vital Signs



### Proportion of 911 Response Reasons



**About the data:** This analysis was conducted using the 2024 **ImageTrend Collaborate™** dataset, a representative national EMS research resource<sup>4</sup> consisting of de-identified data from agencies that opt into data-sharing. Patients who received prehospital blood administration were identified using relevant eProcedures03 (Procedure) and eMedications03 (Medication Administered) codes. 911 response reason was categorized using eInjury01 (Cause of Injury) codes for trauma patients and eSituation11 (Provider Primary Impression Codes) for patients who did not have injury documentation.

#### Citations:

- Levy MJ, Schaefer RM, Obyrne H, Krohmer JR, Bank EA, Holcomb JB. Prehospital blood transfusion coalition clinical practice guideline for civilian emergency medical services. *Trauma Surgery & Acute Care Open*. 2025;10:e001931. <https://doi.org/10.1136/tsaco-2025-001931>
- Shackelford, S. A., Del Junco, D. J., Powell-Dunford, N., Mazuchowski, E. L., Howard, J. T., Kotwal, R. S., Gurney, J., Butler, F. K., Jr, Gross, K., & Stockinger, Z. T. (2017). Association of Prehospital Blood Product Transfusion During Medical Evacuation of Combat Casualties in Afghanistan With Acute and 30-Day Survival. *JAMA*, 318(16), 1581–1591. <https://doi.org/10.1001/jama.2017.15097>
- National Highway Traffic Safety Administration's Office of EMS. The Untapped Lifesaving Potential of Prehospital Blood Transfusion. *EMS Update Newsletters*. December 2024. <https://tinyurl.com/2pwv8bwcs>
- Berry, C., Gallagher, J. M., Goodloe, J. M., Dorlac, W. C., Dodd, J., & Fischer, P. E. (2023). Prehospital Hemorrhage Control and Treatment by Clinicians: A Joint Position Statement. *Prehospital emergency care*, 27(5), 544–551. <https://doi.org/10.1080/10903127.2023.2195487>

### Call to Action



Blood donors are the foundation of any successful prehospital blood administration program—Support blood drives and donation awareness in your community



Evaluate your agency or state's data to understand what patient populations could benefit from prehospital blood



Connect with agencies near you that have started prehospital blood programs and learn from their experience ([prehospitaltransfusion.org/blood-program-interactive-map/](https://prehospitaltransfusion.org/blood-program-interactive-map/))



Train clinicians to rapidly assess when patients could benefit from prehospital blood administration and how to document its use

#### Work With Us:

ImageTrend's Clinical & Research Services team partners with EMS and healthcare organizations to uncover actionable insights and drive data-informed public health initiatives.

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**Address:** ImageTrend, Inc. | 1305 Corporate Center Dr, Eagan, MN 55121

[Learn more about participating in or conducting research with the ImageTrend Collaborate Dataset here:](#)

