

2024-2025 Blood Transfusion Report

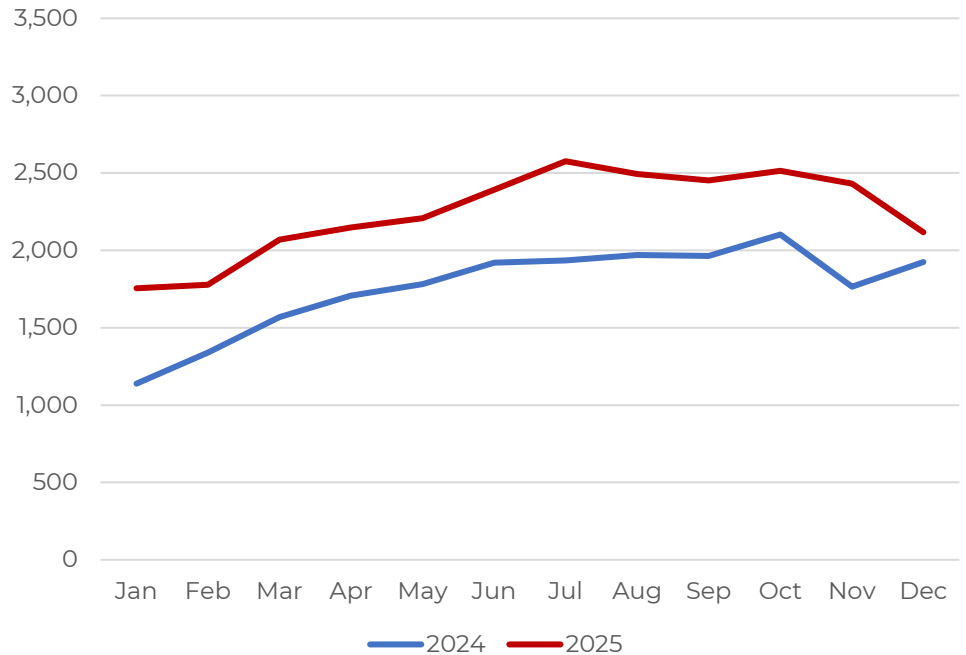
All EMS Blood Transfusions: 48,048 Activations (Jan. 2024 - Dec. 2025)

The first two pages of this report represent the broader EMS ecosystem, capturing a complete landscape of all EMS blood transfusions, with 20,782 occurring in 2024 and 27,266 in 2025. This overview reflects all service types and transport modes, including emergency responses, interfacility transfers, ground transport, and air medical services.

This 24-month trend highlights a significant and steady increase in blood administration across the entire EMS ecosystem.

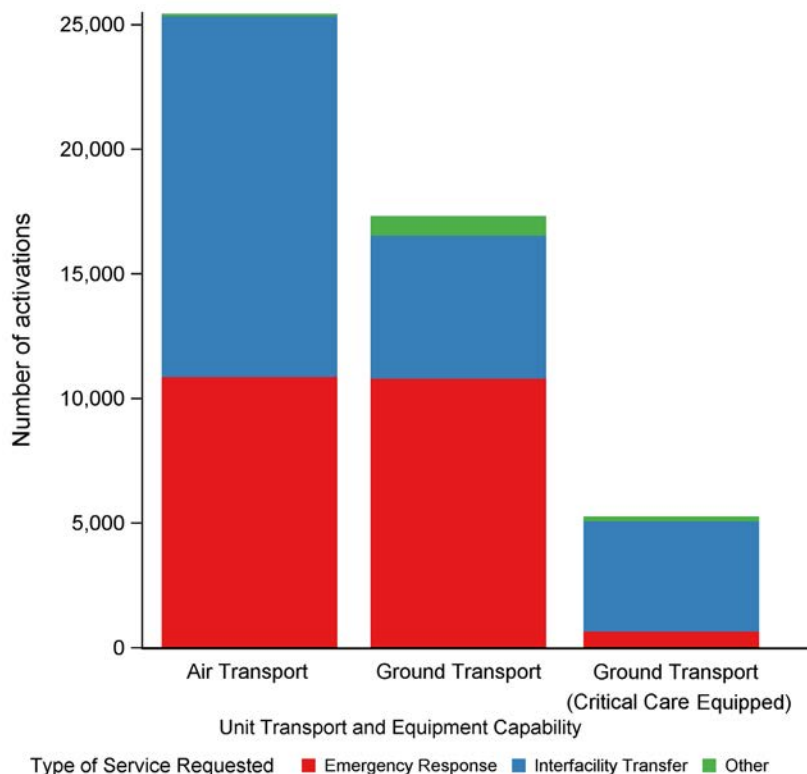
Beginning at **1,138** activations in **January 2024**, utilization steadily climbed, eventually peaking at **2,576** activations in **July 2025**.

During this time period, the majority of blood transfusion activations occurred during air transport (53%; n=25,437), and 47% (n=22,599) occurred during ground transport, including critical care equipped units. Most of these activations occurred during interfacility transfers (51.3%; n=24,636), with emergency responses accounting for 46.5% (n=22,354).



Service Requested and Mode of Transport

The type of service initially requested and the method used to transport the patient to definitive care.



Blood Product Administration Type

Total count of blood transfusions by blood product infused.*

Blood Product	Count	Percent
Whole Blood	11,117	23%
Packed RBC	9,036	18%
Plasma	1,678	3%
Cryoprecipitate	602	1%
Platelets	424	1%
Unspecified Blood Product	26,546	54%
49,403		

*More than one type of blood product may be documented per activation. "Unspecified Blood Product" is used only when a blood product is administered but no specific product is documented.

What counts as an 'EMS Activation'?

An **EMS activation** is an occurrence which **initiates an EMS response** with the potential of patient contact. This is also referred to as an EMS "call" or "run".

An activation can include: 911 calls, critical care transports, interfacility transports, standby events, or scheduled medical transports.

The data are reflected as the number of activations instead of the number of patients because there can be more than one activation per patient per call.

2024-2025 Blood Transfusion Report

All EMS Blood Transfusions: 48,048 Activations (Jan. 2024 - Dec. 2025)

Patient Race

The patient's race/ethnicity recorded by the EMS clinician.
More than one race/ethnicity may be documented.

Race	Count	Percent
White	27,277	56.8%
Black or African American	6,659	13.9%
Hispanic or Latino	4,757	9.9%
American Indian or Alaska Native	974	2%
Asian	503	1%
Multiple Races	477	1%
Native Hawaiian or Other Pacific Islander	95	0.2%
Unknown	7,306	15.2%
48,048		



EMS Transfusion (Adobe Photo Stock)

Patient Age

The patient's age recorded by the EMS clinician.

Age Group	Count	Percent
Child (0-14)	1,891	4%
Teenager (15-19)	2,013	4%
Young Adult (20-39)	10,660	22%
Middle-aged Adult (40-64)	15,311	32%
Older Adult (65+)	17,717	37%
Unknown	456	1%
48,048		

Urbanicity of Incident County

An urbanicity classification of Incident county based on 2023 USDA Urban Influence Codes.

Urbanicity	Count	Percent
Rural	19,949	42%
Urban	17,026	35%
Suburban	6,073	13%
Frontier	3,926	8%
Unknown	1,074	2%
48,048		

First Responders (Adobe Photo Stock)



2024-2025 Blood Transfusion Report

Emergency Ground Ambulance Transfusions: 9,876 Activations (Jan. 2024 - Dec. 2025)

The next two pages of this report represent the growing adoption of blood transfusions by ground EMS services, capturing a specific subset of 9,876 emergency ground responses, with 3,758 occurring in 2024 and 6,118 in 2025. This focused view reflects EMS blood utilization excluding the air medical and interfacility transfers seen in the broader ecosystem.

Possible Injury Among Ground Responses

EMS clinician indication of whether the patient suffered an injury.

Possible Injury	Count	Percent
Yes	6,197	63%
No	3,026	31%
Unknown	653	7%
9,876		

Patient's Primary Symptom (Medical)

The primary patient symptom resulting from an illness observed by EMS personnel.

Primary Symptom	Count	Percent
Abdominal & Gastrointestinal	921	30%
Hemorrhage & Bleeding	742	25%
Shock & Circulatory	365	12%
Neurological & Cognitive	258	9%
Functional, Generalized & Constitutional	193	6%
Obstetric & Gynecologic	134	4%
Respiratory & Breathing	79	3%
Cardiovascular	48	2%
Social, Environmental & Administrative	45	1%
Mental Health & Behavioral	23	1%
Infectious, Febrile & Sepsis-Related	13	0.4%
Endocrine & Metabolic	10	0.3%
Genitourinary	7	0.2%
Unknown, Ill-Defined & Unspecified	188	6%
3,026		

Blood Product Administration Type

Total count of blood transfusions by blood product infused.*

Blood Product	Count	Percent
Whole Blood	6,310	62%
Packed RBC	843	8%
Plasma	288	3%
Cryoprecipitate	528	5%
Platelets	17	0.2%
Unspecified Blood Product	2,124	21%
10,110		

*Blood Product types are counted separately; totals may exceed 100%. "Unspecified Blood Product" is used only when a blood product is administered but no specific product is documented.

Cause of Injury

The reported/suspected cause of the injury.*

Cause of Injury	Count	Percent
Motor Vehicle Crash (MVC)	2,535	38%
Firearm	1,890	29%
Contact with Sharp Object	719	11%
Fall	568	8.6%
Blunt Force	196	3%
Self-Harm	113	1.7%
Other Transport	57	1%
Machinery / Industrial	49	0.7%
Animal-Related	24	0.4%
Burn / Fire / Heat	10	0.2%
Other / Unspecified	456	6.9%
6,617		

*EMS Clinicians may report multiple causes of injury.

First Responders (NHTSA Photo Library)



2024-2025 Blood Transfusion Report

Emergency Ground Ambulance Transfusions: 9,876 Activations (Jan. 2024 - Dec. 2025)

Patient Age

The patient's age recorded by the EMS clinician.

Age Group	Count	Percent
Child (0-14)	184	2%
Teenager (15-19)	609	6%
Young Adult (20-39)	3,307	33%
Middle-aged Adult (40-64)	3,101	31%
Older Adult (65+)	2,552	26%
Unknown	123	1%
9,876		

Patient Race

The patient's race/ethnicity recorded by the EMS clinician.
More than one race/ethnicity may be documented.

Race	Count	Percent
White	4,428	45%
Black or African American	2,648	27%
Hispanic or Latino	1,551	16%
Asian	157	2%
Multiple Races	77	1%
American Indian or Alaska Native	30	0.3%
Native Hawaiian or Other Pacific Islander	19	0.2%
Unknown	966	10%
9,876		

Urbanicity of Incident County

An urbanicity classification of Incident county based on 2023 USDA Urban Influence Codes.

Urbanicity	Count	Percent
Urban	6,361	64%
Rural	2,687	27%
Suburban	435	4%
Frontier	132	1%
Unknown	261	3%
9,876		



John Britt (NEMSIS TAC)

First Responders (NHTSA Photo Library)

