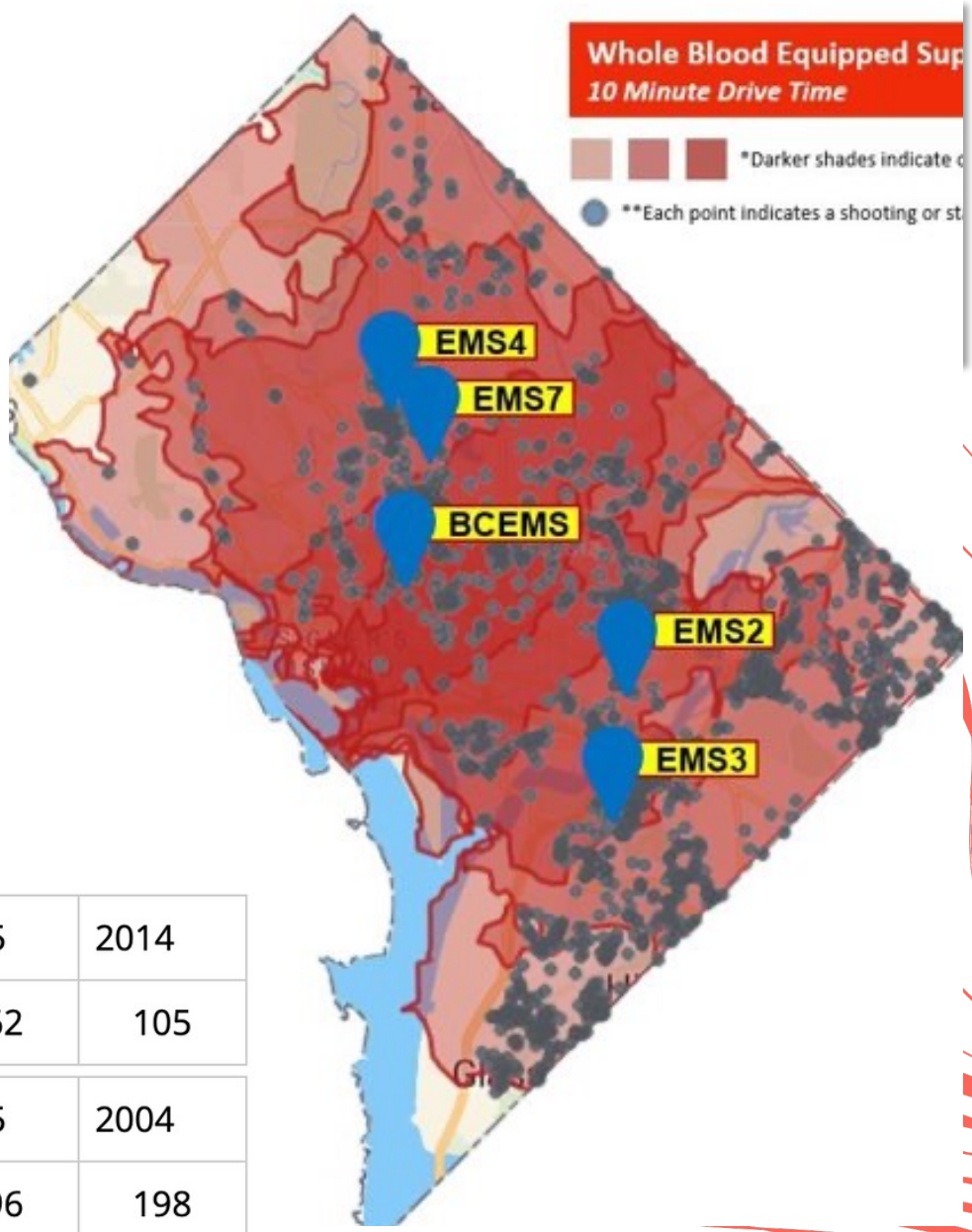
DC Fire and EMS LTOWB Program

2023 Year End Crime Data

Year-end 2023 data accurate as of January 1, 2024.

Offense	2022	2023	Percent Change
Homicide	203	274	35%



20-Year Homicide Trend

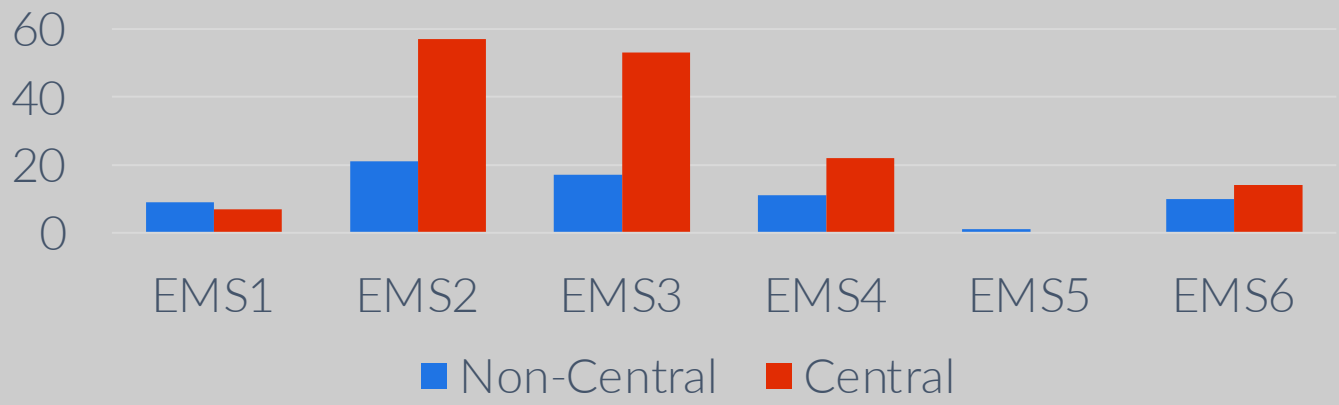
2023	2022	2021	2020	2019	2018	2017	2016	2015	2014
274	203	226	198	166	160	116	135	162	105

2013	2012	2011	2010	2009	2008	2007	2006	2005	2004
104*	88	108	132	144	186	181	169	196	198

222 Trauma Cases Meeting Criteria 1/1-6/1/2023

69 Non-Central Trauma

153 Central Trauma



Projected Potential LTO+WB Use

>400 uses per year

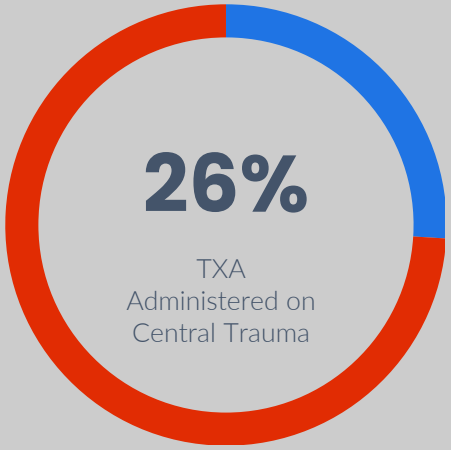
Average Times - NCT

Scene

10:43

Transport

14:15



Average Time - CT

Scene

6:19

Transport

12:40

DCFD Whole Blood Program Monitor

Select an Event
No data

Units of Blood In Service

Search...

Unit | **EMS 4 FRIDGE** | ISBT # **182124094499** | Expires in 3 days
Expiration date 11/25 | Assuming Duty - Rosalio Ruiz 11/22/2024, 6:28 AM

Unit | **EMS 2 BOX** | ISBT # **180124094172** | Expires in 3 days
Expiration date 11/25 | Transfer - Jared Snyderman 11/22/2024, 11:55 AM

Unit | **EMS 3 BOX** | ISBT # **180124094984** | Expires in 5 days
Expiration date 11/27 | Assuming Duty - Holly OByrne 11/21/2024, 6:15 AM

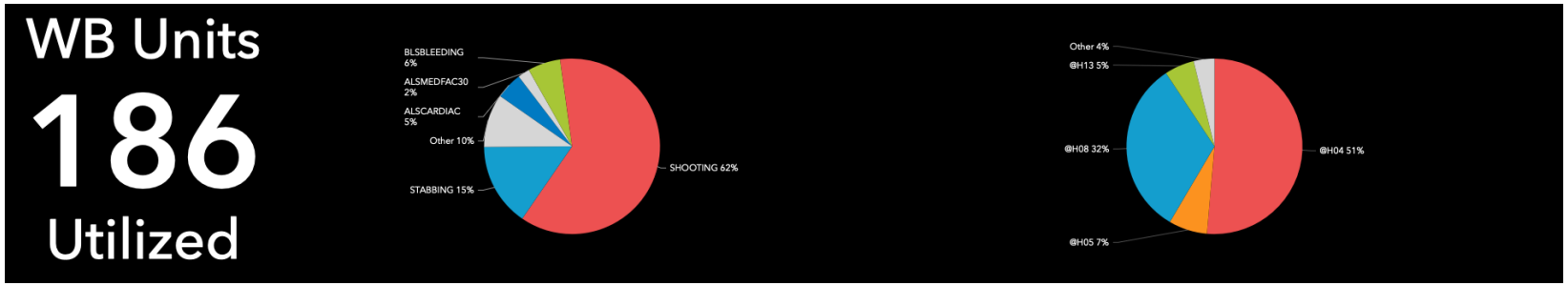
Unit | **BCEMS BOX** | ISBT # **185324120778** | Expires in 5 days
Expiration date 11/27 | Assuming Duty - Jared Snyderman 11/22/2024, 5:26 AM

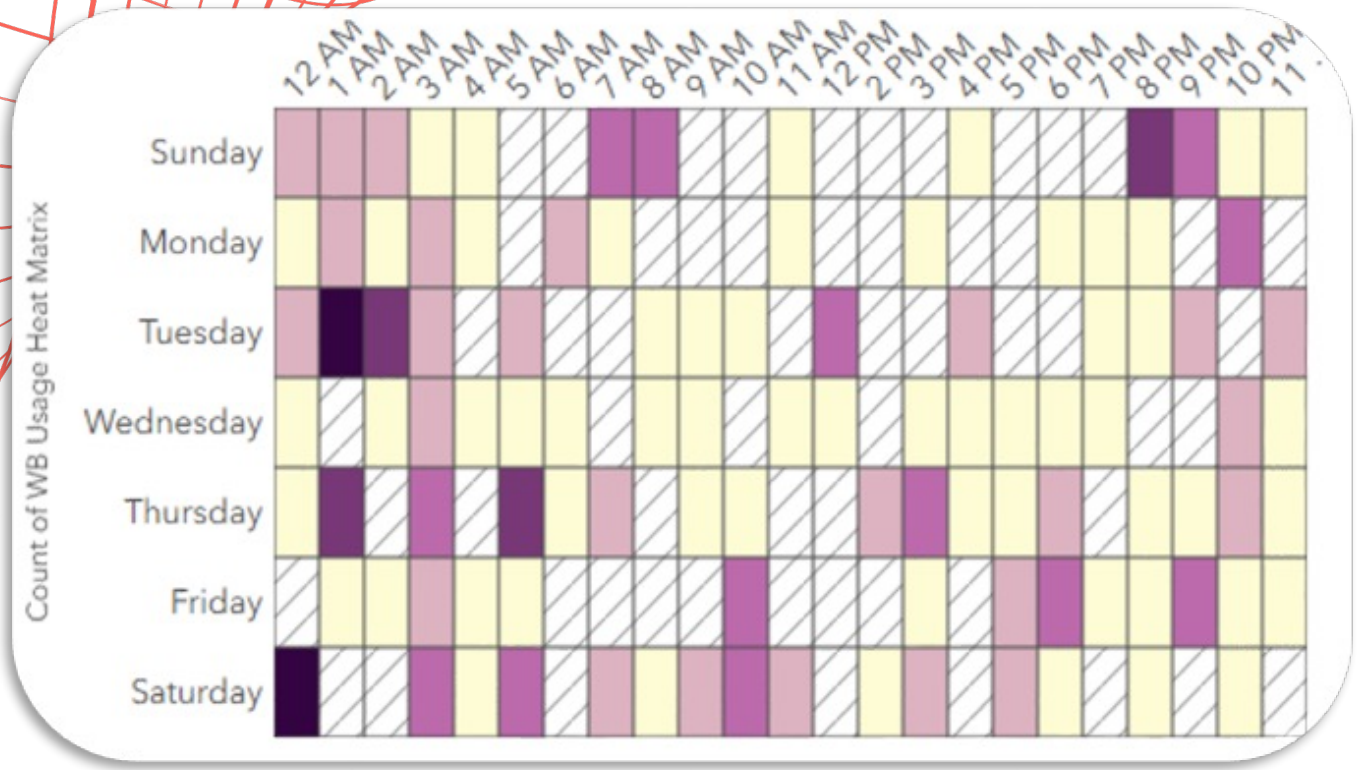
Unit | **EMS 7 BOX** | ISBT # **185324120775** | Expires in 5 days
Expiration date 11/27 | Assuming Duty - Jared Snyderman 11/22/2024, 11:56 AM

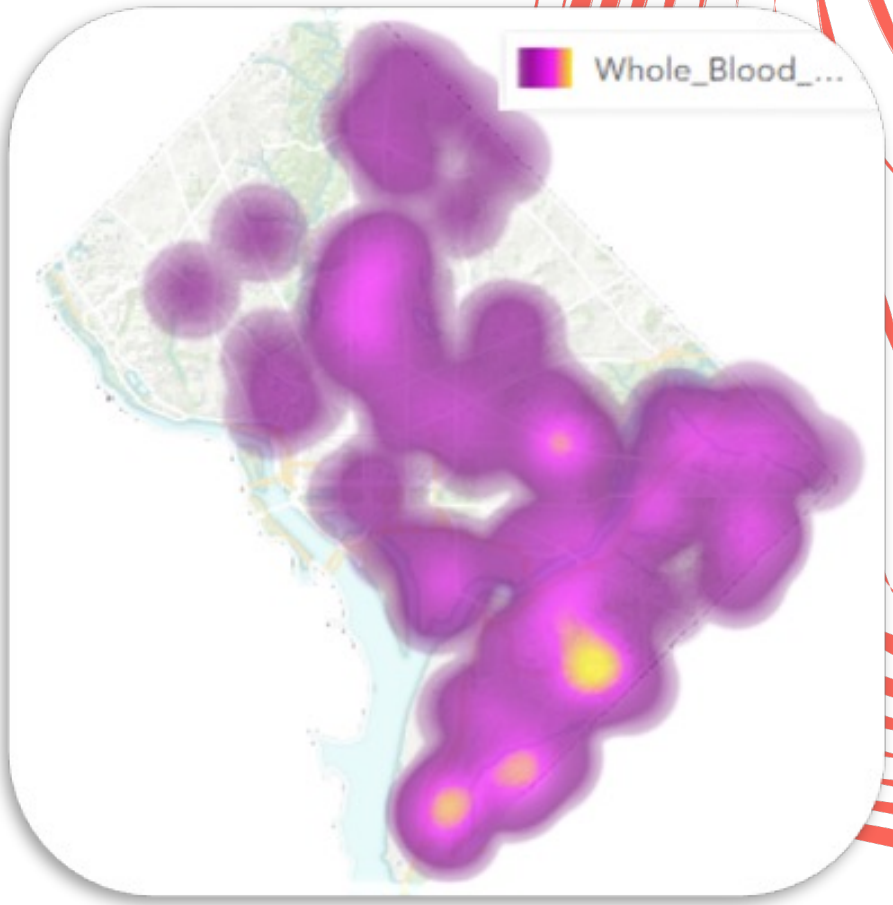
Unit | **BCEMS FRIDGE** | ISBT # **185324106957** | Expires in 12 days
Expiration date 12/4 | Assuming Duty - Jared Snyderman 11/22/2024, 5:27 AM

Unit | **BCEMS FRIDGE** | ISBT # **185324120258** | Expires in 12 days
Expiration date 12/4 | Assuming Duty - Jared Snyderman 11/22/2024, 5:28 AM

EMS2 | S81 | AQ | *15m*	No data
EMS2 BOX | Normal | 4.5 | 2.79V | *Reported 40s ago*	EMS2 FIREHOUSE | Online | *Reported 3m ago*
EMS2 FREEZER | Normal | -19.3 | 2.65V | *Reported 50s ago*	EMS2 VEHICLE GATEWAY | Offline | *Reported 19m ago*
EMS2 FRIDGE | Normal | -2.3 | 2.84V | *Reported 8s ago*	EMS2 FIREHOUSE BAY | Online | *Reported 4m ago*
EMS3 | S82 | AM | *17m*	No data
EMS3 BOX | Above | 5.6 | 2.92V | *Reported 32s ago*	EMS3 FIREHOUSE | Online | *Reported 5m ago*
EMS3 FREEZER | Normal | -12.0 | 2.65V | *Reported 43s ago*	EMS3 FIREHOUSE BAY | Online | *Reported 1m ago*
EMS3 FRIDGE | Normal | -1.2 | 2.75V | *Reported 22s ago*	
EMS4 | S83 | AM | *13m*	No data
EMS4 BOX | Normal | 5.0 | 2.88V | *Reported 1s ago*	EMS4 VEHICLE GATEWAY | Online | *Reported 3m ago*
EMS4 FREEZER | Normal | -17.1 | 2.61V | *Reported 19s ago*	EMS4 FIREHOUSE | Online | *Reported 4m ago*
EMS4 FRIDGE | Normal | 0.7 | 2.88V | *Reported 21s ago*	EMS4 FIREHOUSE FLR 1 | Online | *Reported 1m ago*
EMS7 | S74 | AQ | *1h 35m*	No data
EMS7 BOX | Normal | 4.4 | 2.92V | *Reported 48s ago*	EMS7 FIREHOUSE | Online | *Reported 1m ago*
EMS7 FREEZER | Normal | -9.5 | 2.75V | *Reported 38s ago*	EMS7 VEHICLE GATEWAY | Offline | *Reported 8d 21h 34m ago*
EMS7 FRIDGE | Normal | 5.1 | 2.88V | *Reported 47s ago*	
BCEMS | S279 | AQ | *2h 13m*	No data
BCEMS BOX | Normal | 4.8 | 2.93V | *Reported 30s ago*	BCEMS VEHICLE GATEWAY | Online | *Reported 1m ago*
BCEMS FRIDGE | Below | -0.6 | 2.87V | *Reported 38s ago*	BCEMS FIREHOUSE | Online | *Reported 2m ago*
BCEMS STORAGE FRIDGE | Normal | 3.2 | 2.87V | *Reported 48s ago*	




Count of WB Usage Heat Matrix
12 AM
1 AM
2 AM
3 AM
4 AM
5 AM
6 AM
7 AM
8 AM
9 AM
10 AM
11 AM
12 PM
2 PM
3 PM
4 PM
5 PM
6 PM
7 PM
8 PM
9 PM
10 PM
Sunday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday


Whole_Blood_...

clinical

Care Bundle Science

LTO+WB

TXA

Calcium Chloride

Standardization: ARC Bundle For Whole Blood

FRONT POCKET

PENS, SHARPIES AND TRANSFUSION RECORD FORMS (5)

MAIN POCKET

SUPPLIES DETAILED ON PAGE 15

MIDDLE POCKET

IO DRIVER DEVICE, IO NEEDLES, STABLIZERS AND COBAN

GO-2023-xx

Whole Blood Bundle Bag Inventory

Front Pouch	
Item	**Quantity**
Sharpie	2
Pens	3
Whole Blood Transfusion Triplicate Documentation Form	5

Middle Pouch	
Item	**Quantity**
Coban	3
EZ-IO Drill	1
45mm Yellow IO Needle	2
25mm Blue IO Needle	1
15mm Pink IO Needle	1
EZIO Needle Stabilizer	1

Large Pouch	
Item	**Quantity**
LifeFlow Plus Infusion Device	2
QinFlow CDU	1
1000mL Normal Saline	1
Pediatric Nasal Cannula ETCO2	1
Adult Nasal Cannula ETCO2	1
In-Line ETCO2	1
Calcium Chloride 1g	1
TXA 1g	1
10cc Syringe	1
Twinpack Syringe	1

Tips and Tricks

Standardization for Procedural Drop-Down Narrative Format and Transfusion Documentation

[EMS Unit Call Sign] responded for **[EMD Card Number]**. **[EMS Unit Call Sign] [was initially dispatched, requested by a unit on scene, or added themselves to the response]**. Arrived on scene to find **[Patient Age & Units] [Patient Gender] [insert where the patient was found (medic unit, on scene, etc.)]**

Patient presented to EMS **[Describe patient presentation (A&O? GCS?), visible bleeding]**. **[Insert history of present illness (what happened to the patient, what created the need for blood, description of injuries, etc)]**

Vitals signs immediately prior to transfusion: **[HR]**, **[BP]**, **[RR]**, **[ETCO2]**, **[SPO2]**.

The patient met the following criteria for whole blood administration: **[SBP < 70 mmHg, < 90 mmHg with HR >= 110/min, SBP < 90 mmHg with ETCO2 < 25 mmHg, witnessed trauma arrest < 5 min duration with CPR, or Age >= 65 years with SBP <= 100 mmHg and HR >= 100/min OR describe other reason for LTOWB administration]**
[Type of Access: IV or IO] access secured in the **[insert access site]** by **[insert unit that secured access]**.

Patient was given one unit of low titer O **[Insert + or -]** whole blood via LifeFlow Plus hand-operated rapid infuser. Transfusion began at **[insert transfusion start time]** and ended at **[insert transfusion end time]**. **[No complications occurred during transfusion OR insert complications experience during transfusion (ex. IV access lost)]**.

[No transfusion reactions were observed OR insert transfusion reaction symptoms/treatment].

[XX mL] of normal saline were administered during the EMS encounter.

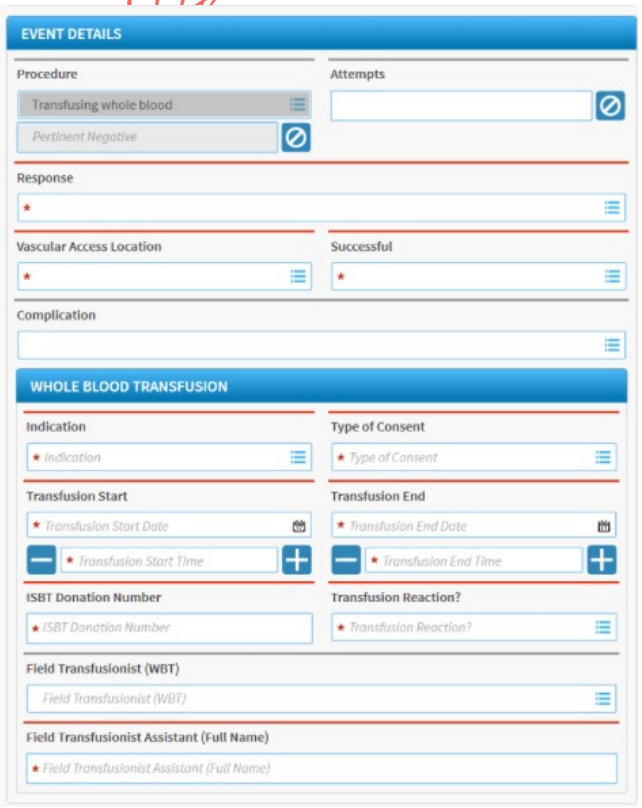
Medications administered **[prior to / following]** whole blood included: **[insert medication (TXA?) (Calcium?), (Oxygen? Route?)]**

Following transfusion patient **[insert patient status following transfusion (mentation, response, etc.)]**.

Vitals following transfusion: **[HR]**, **[BP]**, **[RR]**, **[ETCO2]**, **[SPO2]**.

Additional Treatments Included: **[12-lead, needle decompression, pain management, etc.]**.

Patient was transported to **[Destination/Transferred To, Name]** with radio pre-notification and continuously monitored enroute. A full report was provided to the receiving facility upon arrival. The LTOWB bag and a copy of the triplicate form were provided to the receiving facility.



PLACE PATIENT STICKER HERE
PLACE A STICKER ON EACH COPY

Prehospital Blood Product Transfusion Record

Patient Name: (Last, First, MI)	Date of Birth:	DCFEMS Incident #:

ISBT Donation Number (Affix sticker below)	Product Type (Circle + or -)	Transfusion Start/End	Transfusion Status (Circle One)	Transfusion Reaction (Circle One)	WBT Initials
1. Affix ISBT Sticker Here or Write Unit #	LTOWB Pos Neg	Date: _____ Start: ___:___ End: ___:___	Completed Ongoing	Yes No	
2. Affix ISBT Sticker Here or Write Unit #	LTOWB Pos Neg	Date: _____ Start: ___:___ End: ___:___	Completed Ongoing	Yes No	
3. Affix ISBT Sticker Here or Write Unit #	LTOWB Pos Neg	Date: _____ Start: ___:___ End: ___:___	Completed Ongoing	Yes No	
4. Affix ISBT Sticker Here or Write Unit #	LTOWB Pos Neg	Date: _____ Start: ___:___ End: ___:___	Completed Ongoing	Yes No	

Transport Unit:	EMS Sup Unit:	Field Transfusionist (WBT) (Printed Name and DC Health Cert #)	Field Transfusionist Assistant (Printed Name and DC Health Cert #)
	EMS____		

Receiving Facility (Check One):

☐ H02 – CHILDREN'S NATIONAL MED CNTR	☐ H08 – GEORGE WASHINGTON UNIV HOSPITAL
☐ H04 – MEDSTAR TRAUMA	☐ H12 – SIBLEY MEMORIAL HOSPITAL
☐ H05 – HOWARD UNIVERSITY HOSPITAL	☐ H13 – WASHINGTON HOSPITAL CENTER
☐ H07 – GEORGETOWN UNIVERSITY HOSPITAL	☐ _____

Receiving Hospital Staff (Print Name and Title):
_____

Receiving Hospital Staff Signature:
_____

White Copy: *DC Fire ad EMS*
Yellow Copy: *ED/Trauma Center*
Pink Copy: *Blood Bank/Transfusion Services*

DC Fire and EMS LTOWB
April – December 2024

Variable	Data
Average Age	36
Male	79.9%
Black/African American	86.8%
Penetrating Trauma	79.3%
Blunt Trauma	5.7%
Medical	15.0%
TCA before/after contact	35
Total Mortality	25.3%
Mortality excluding TCA	6.3%
Dispatch to Blood Admin	25:41
Transport Time	13:04
Scene Time	16:28*

*Includes Special Operations, incidents requiring staging and rendezvous with an LTOWB EMSS

Administration Data	
Total Patients	174
Total Units	186
Patients >1 Unit	11
Unit per hour	1 unit every 31.8 hours
TXA Administration	86.9%
Calcium Administration	85.3%

Vital Sign	Pre Admin	Post Admin	Change
Systolic BP	81	112	Δ +31
Heart Rate	103	96	Δ -7
ETCO2	22	28	Δ +5
Shock Index	1.35	0.92	Δ -0.43

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https://linktr.ee/DCFEMSWholeBlood