

Clinical Quality Improvement Report June 2014

Tulsa and Oklahoma City Executive summary of the Eastern and Western divisions Clinical Quality Reports, presented to the Office of the Medical Director.

DISPOSITION OF CALLS

Disposition	Eastern Division	Western Division	Total
Transported	5,569	6,305	11,874
Patient Refused Care	436	403	839
Patient Refusal- FOS Consult	343	458	801
Treated at Scene- Refused Transport	34	67	101
No Treatment Required	649	265	914
No Patient Found	697	680	1,377
Cancelled by Fire	46	104	150
Cancelled by Police	300	166	466
DOA	63	39	102
Critical Failure-EMSA	1	4	6
Non-Medical Transport	33	49	82
Special Event	41	18	59
Standby	20	24	44
Treated, Transferred Care	10	8	18
Total	8,242	8,591	16,833

N.B. These numbers are a reflection of the numbers of tickets generated.

TRANSPORTATION VS NON-TRANSPORTATION

Status	Eastern Division	Western Division	Total
Priority One Transport	314	469	783
Priority Three Transport	5,334	5,921	11,255
Non-Medical Transport	33	49	82
Non Transport	2,561	2,151	5,061
Total	8,242	8,590	16,833

Definitions

Transported—Patient transported by ambulance to either a facility or to home.

Patient Refused Care—Patient (as defined by Medical Control Board memo dated 14MAY2010) has refused care.

Patient Refused Care—Patient refuses care, meets criteria from MCB Protocol 14.D for FOS refusal.

Treated at scene, Refused Transport—Patient treated at scene, typically diabetics and asthmatics, refuse transport to emergency department. Some of these require FOS consult.

No Treatment Required—Subject, not a patient, determines that they are not a patient, and signs ePCR as such

No Patient Found—Crew arrives on scene, and no patients are found at that location.

Cancelled by Fire—Crew cancelled by fire department after arrival on scene

Cancelled by Police—Crew cancelled by police department after arrival on scene.

DOA—Patient is either dead on arrival of the crew, or is a cardiac arrest with resuscitation terminated in the field by protocol 4K.

Critical Failure-EMSA—After arrival of at scene, crew has a failure of the ambulance or medical device that prevents transports, these cases are transported by another unit.

Non-Medical Transport—Transport of flight crew or NICU team without a patient onboard, or transport of organs to a facility.

Special Event—Crew arrived on scene of event as dedicated support, e.g. BOK or Thunder game. Any patients that are transported are **treated**, **transfer of care** (see below). Refusals are as above. Only ticket on this is the ticket for billing proving that crew was onscene.

Standby—Crew on scene for Fire Standby or SOT standby, or staged for call that was cancelled by Police.

Treated, Transferred Care—Crew on scene of patient, and transfer care either to another EMS service, to a flight crew (not a transfer) or to a transport unit from EMSA.

CRITICAL MECHANICAL FAILURES

Run Number	Division	Unit	Notes	Resolution
14102408	West	448	Vehicle contact	Transported by another unit.
14103347	West	249	Unknown	Transported by another unit
14107727	East	102	Vent failure	Received vent from another unit and transported
14113145	West	288	Stuck in mud	Care and transport by separate unit
14117041	West	Unknown	Vent failure	Received vent from another unit and transported
14106147	East	307	Air Ride	Transported by unit 116

AIRWAY REPORT

AIRWAY SUCCESS RATES

Division	Patient Airway Management Cases	Successfully Managed Airway	Percentage
Eastern Division	54	51	94%
Western Division	91	82	90%
Combined	145	133	91.72%

ADVANCED AIRWAY GRADES

These reflect multiple attempts on the same airway. Other is a reflection that crews are not required to pick an airway grade for King Airway. This excludes all health care providers not associated with EMSA.

Airway Grade	Eastern Division	Western Division
Other	NA	11.54% (9)
Class 1	5% (2)	10.26% (8)
Class 2	45% (18)	32.05% (25)
Class 3	35% (14)	21.79% (17)
Class 4	15% (6)	24.36% (19)

ADVANCED AIRWAY TECHNIQUES

Type	East	West
Technique: Blind	6	14
Technique: Digital	NA	NA
Technique: Flexguide	NA	3
Technique: Medication Facilitated	3	4
Technique: Standard Laryngoscopy	31	57
Technique: Surgical Technique	NA	NA
Totals	40	78

AIRWAY TYPE

Туре	East	West	Grand Total
Type: None Chosen	NA	1	NA
Type: ETT	34	62	94
Type: King LT	6	13	19
Type: Tracheostomy	NA	1	2
Type: Nasotracheal	NA	NA	1
Grand Total	40	78	116

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AIRWAY COMPLICATIONS

Туре	Eastern Division	Western Division
ETT Complications:	1.41% (1)	NA
ETT Complications: Difficult Airway	NA	13.2% (10)
ETT Complications: Difficult Airway w/ Fluid	NA	13.2% (10)
ETT Complications: Anatomical	8.45% (6)	NA
ETT Complications: Anatomical w/ Fluid	25.35% (18)	NA
ETT Complications: Clenched Teeth	2.82% (2)	5.3% (4)
ETT Complications: Fluid	16.90% (12)	9.2% (7)
ETT Complications: Gag Reflex	4.23% (3)	2.6% (2)
ETT Complications: None	36.62% (26)	52.6% (40)
ETT Complications: Spinal Immobilization	1.41% (1)	NA
ETT Complications: Traumatic Airway	NA	NA
ETT Complications: Traumatic Airway w/Fluid	NA	NA
ETT Complications: Foreign Body	2.82% (2)	3.9% (3)

Note: Crew Members Documenting Complications to Airway Placement are Provided the Opportunity to Document Multiple Complications Should They Apply.

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CAPNOGRAPHY DELAY

No instances of delayed capnography were noted in the Eastern Division

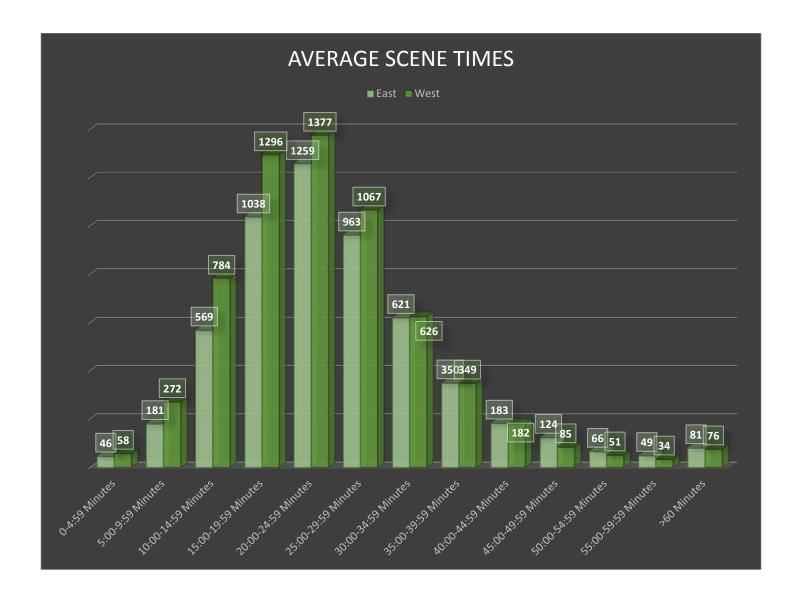
Western Division

Run Number	Medic	Intubation Time	Capnography Time	Difference	Outcome
14103465	Peterson, Dehn	20:42:00	20:44:20	0:02:20	No ESP, Documentation Error
14105673	Rice, Jeff	11:33:48	11:55:16	0:21:28	LP15 Transmission Failure, still attempting to locate LP15 for transmission
14116955	Gooden, Kyle	06:41:45	06:44:14	0:02:29	Intubation on OKCFD LP15
14106694	Likens, Jason	21:30:30			Suctioning with difficult airway placement, ETT placed 4 min prior to arrival at ED, destination time at 21:34:04. Medic met with OMD Director Howerton to review case.

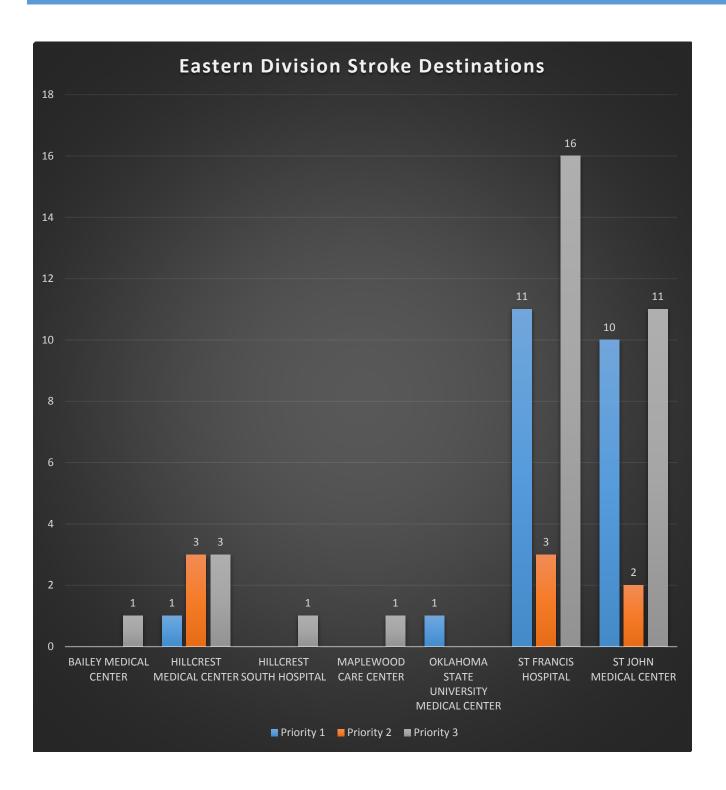
REPORTABLE EVENTS

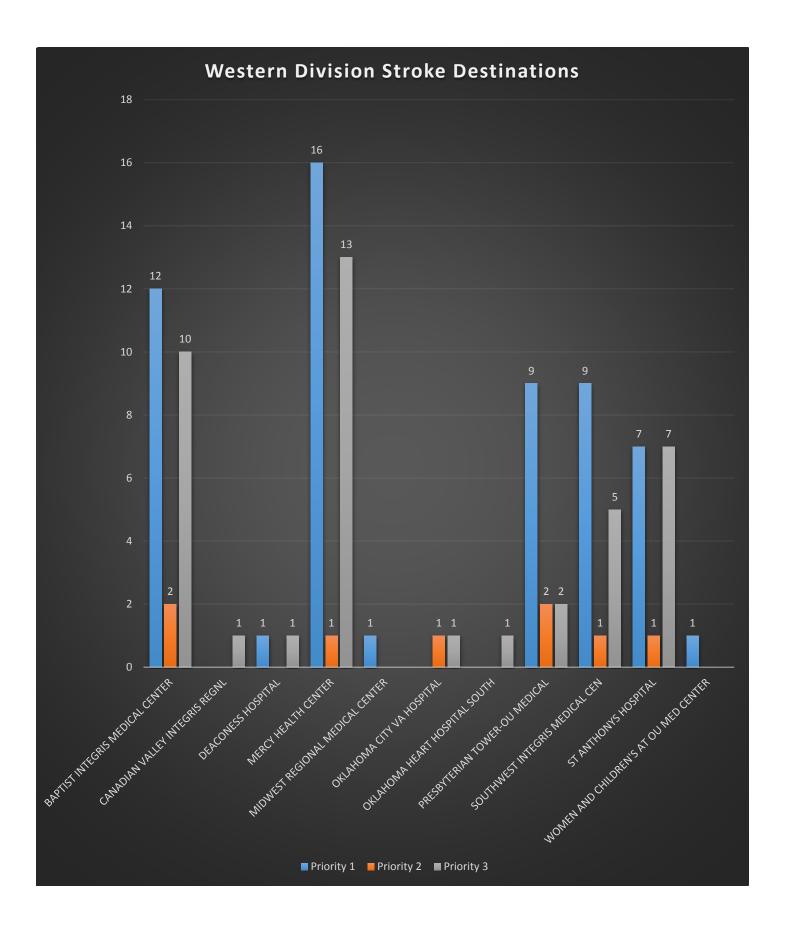
Run Number	Primary Impression	Event	Destination	Unit #	Administered By
14103465	Trauma	Needle Decompression	OU	463	D. Peterson
14105318	Trauma	TXA	OU	296	A. Pontius
14098619	Wound Disruption	CAT	SJMC	521	Law Enforcement
14100058	Hemorrhage	CAT x 2	SJMC	345	Fire Department Yeganeh Azimi
14102916	Trauma	CAT	OU	481	Fire Department
14104656	Trauma	CAT	OU	292	A. Leake
14111941	Trauma	CAT	OU	470	E. Chavira
14111431	ACS	ICD Magnet	SFH	128	C. Merrifield

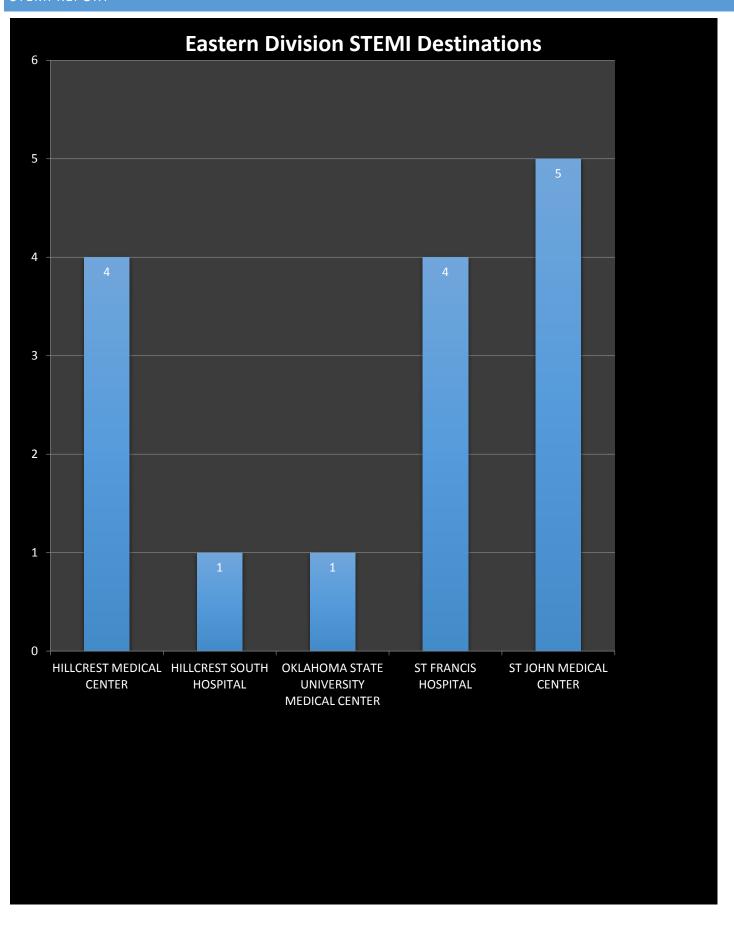
MONTHLY ON SCENE TIMES

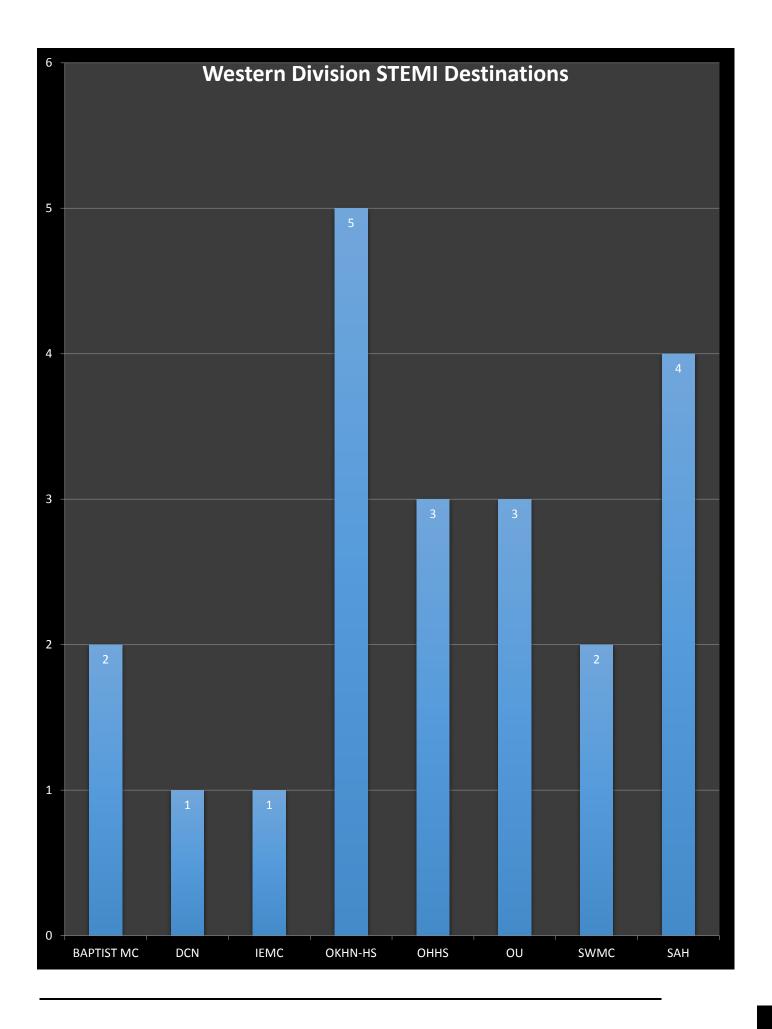


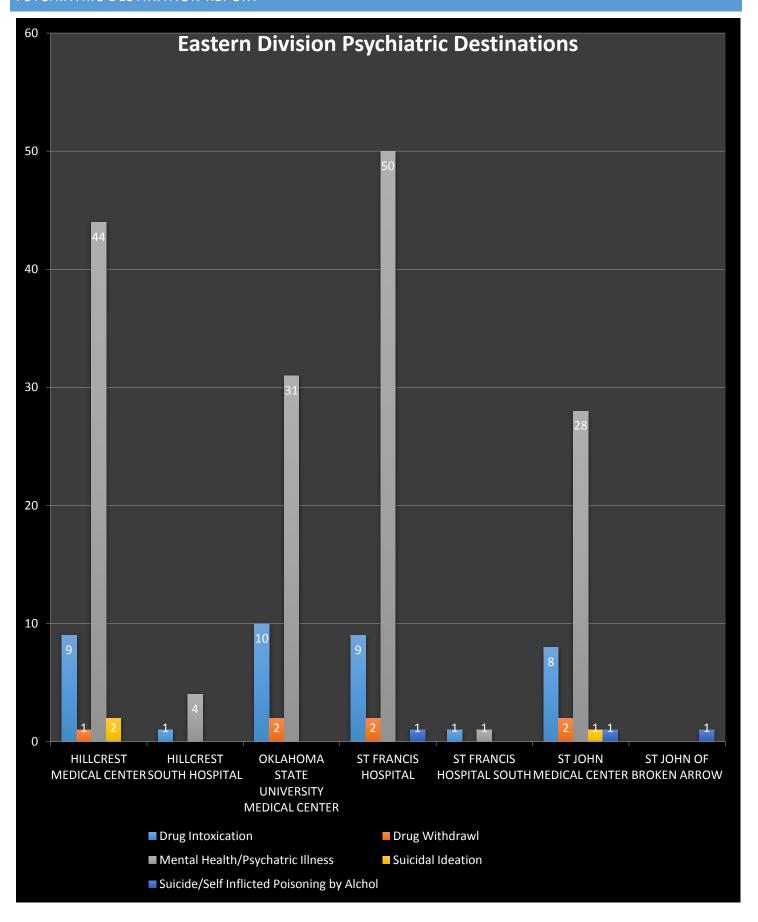
Туре	Eastern	Western
Average	00:26:15	00:24:47
Median	00:23:44	00:22:32
90 th Percentile	00:39:09	00:36:42

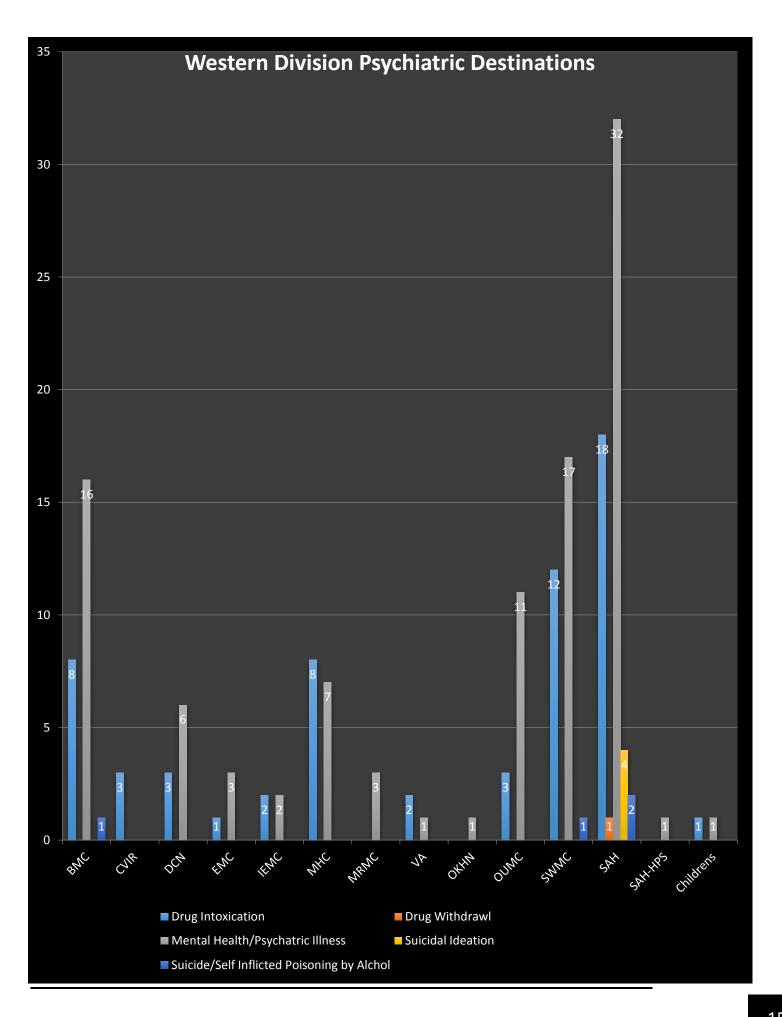








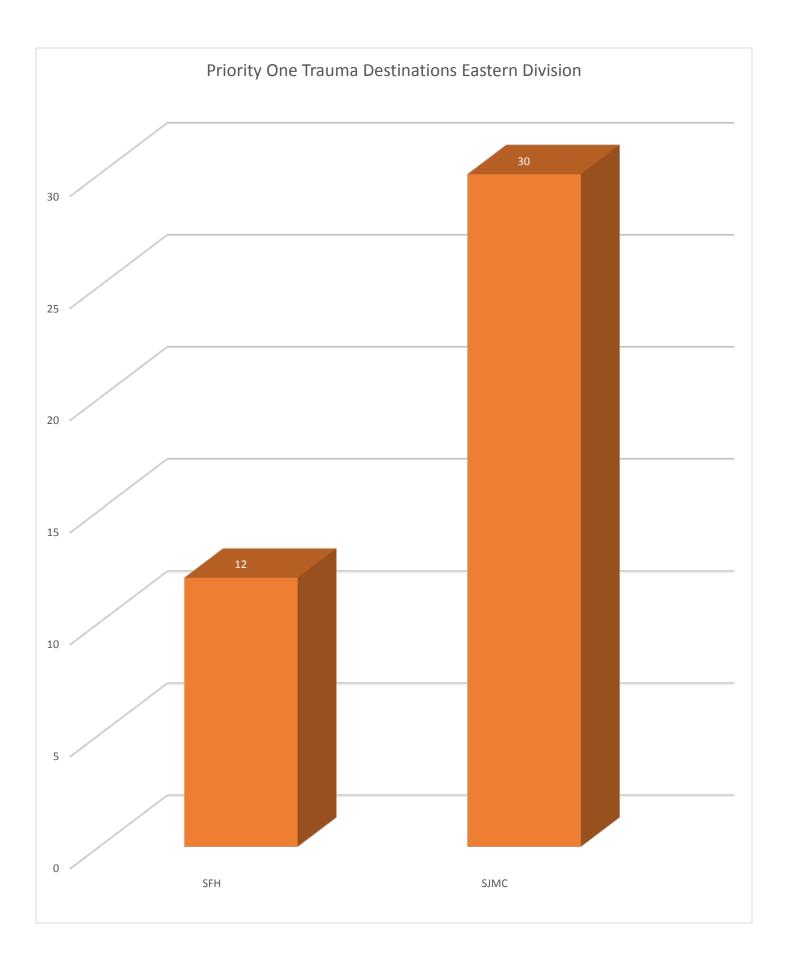




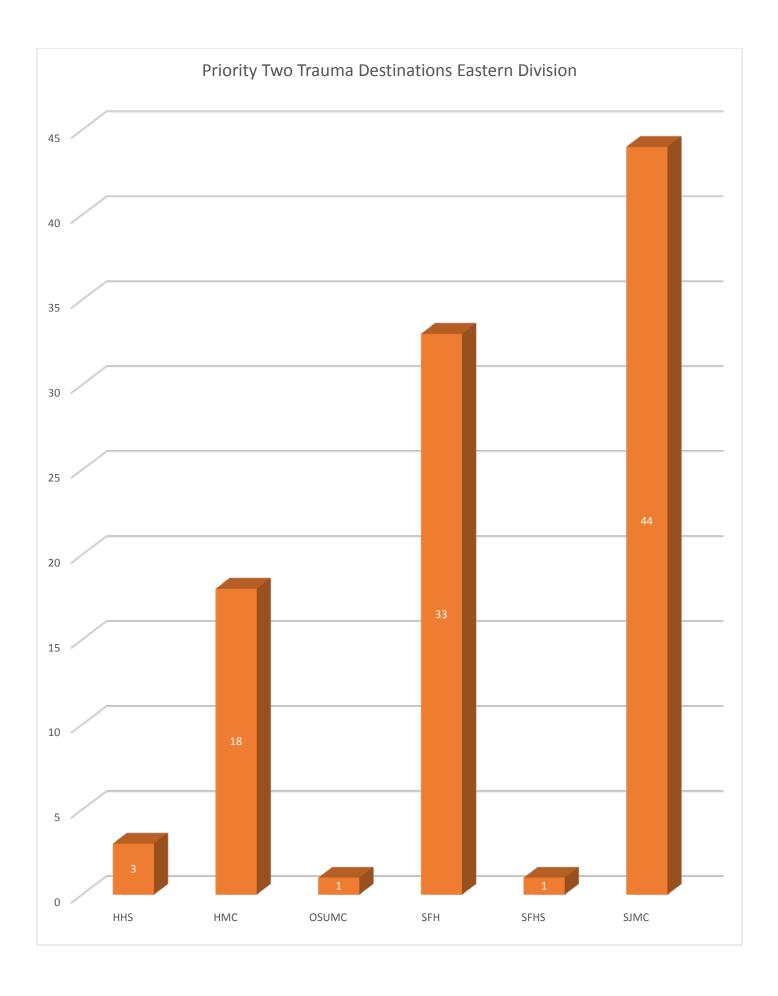
TRAUMA REPORT (BOTH DIVISIONS, ALL PRIORITIES)

EASTERN DIVISION PRIORITY ONE TRAUMA DESTINATION

Date	SFH	SJMC	Grand Total
1-Jun	1	1	2
2-Jun	1	1	2
3-Jun		2	2
4-Jun		2	2
5-Jun		1	1
6-Jun	1		1
10-Jun	1	3	4
11-Jun		1	1
12-Jun	1	1	2
13-Jun		3	3
14-Jun	1	2	3
15-Jun		1	1
16-Jun	1		1
19-Jun		1	1
21-Jun		1	1
22-Jun	1	2	3
23-Jun	1		1
24-Jun	1	3	4
25-Jun		1	1
26-Jun	1	1	2
29-Jun	2	1	3
30-Jun		2	2
Grand Total	13	30	43

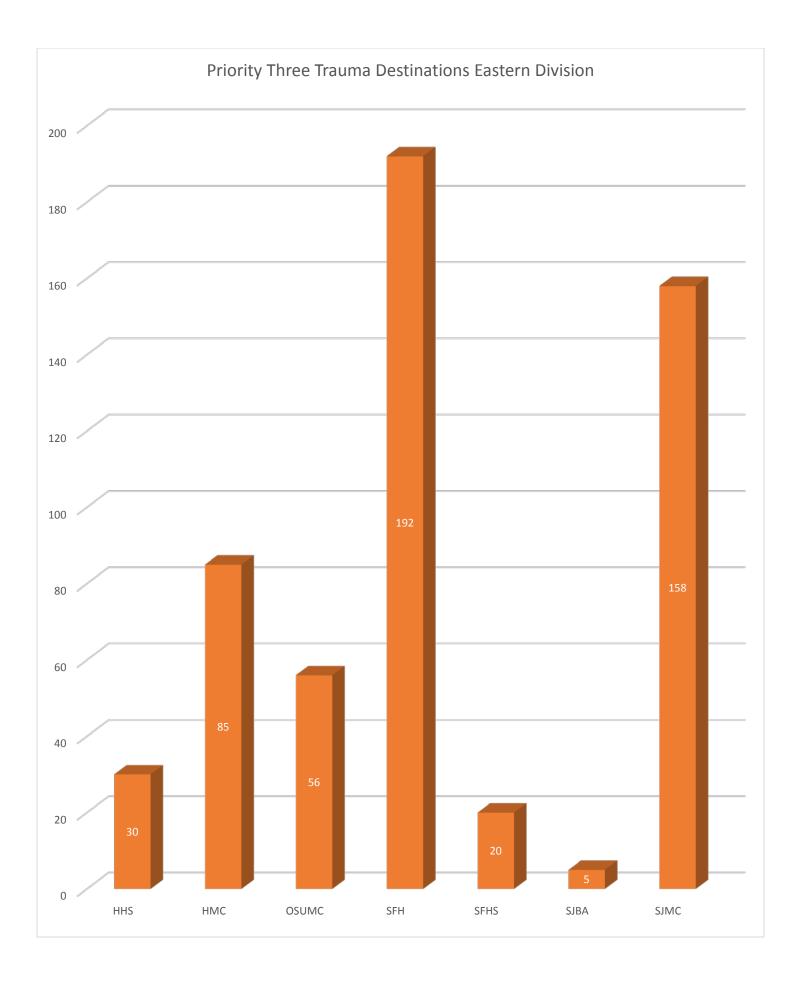


Date	HHS	нмс	OSUMC	SFH	SFHS	SJMC	Grand Total
1-Jun		1				3	4
2-Jun		2		4		2	8
3-Jun				2		1	3
4-Jun				2	1	2	5
5-Jun		2		1		1	4
6-Jun				1			1
7-Jun		4	1	1		1	7
8-Jun						3	3
9-Jun		1		1			2
10-Jun				1		1	2
11-Jun						2	2
12-Jun						2	2
13-Jun				1		1	2
14-Jun				2		2	4
15-Jun						1	1
16-Jun						2	2
17-Jun				1		1	2
18-Jun		1					1
19-Jun				1		3	4
20-Jun						2	2
21-Jun				2			2
22-Jun				2		2	4
23-Jun				1		1	2
24-Jun		1		2			3
25-Jun		3		2			5
26-Jun		1		1		2	4
27-Jun				3		1	4
28-Jun	1			1		3	5
29-Jun	1	1				1	3
30-Jun	1	1		1		4	7
Grand Total	3	18	1	33	1	44	100



EASTERN DIVISION PRIORITY THREE TRAUMA DESTINATION

Date	HHS	нмс	OSUMC	SFH	SFHS	SJBA	SJMC	Grand Total
1-Jun			1	4			5	10
2-Jun	1	1	1	6	1		3	13
3-Jun		2	6	6	1		4	19
4-Jun	1	4	3	4	2		9	23
5-Jun	1	5	3	7	1	1	10	28
6-Jun	1	7		9			4	21
7-Jun	1	3	1	2			4	11
8-Jun		1	2	12			5	20
9-Jun	2	2	1	3			6	14
10-Jun	2	2	1	4	1		2	12
11-Jun	1	3	2	7	1		8	22
12-Jun	1	5	4	3			2	15
13-Jun	1	2	1	7	2		5	18
14-Jun	2	5	2	7			6	22
15-Jun		4	2	10			6	22
16-Jun		2	3	6			5	16
17-Jun		2	1	5	1		3	12
18-Jun		3		4	1	1	6	15
19-Jun	1	4		3	1		10	19
20-Jun			2	11			9	22
21-Jun	1	4	3	8			7	23
22-Jun	2	3	2	6	2		4	19
23-Jun	2	3	4	8	1	1	10	29
24-Jun	3	4	3	9	2	1	6	28
25-Jun		2	1	6	1		3	13
26-Jun	2	2		6			1	11
27-Jun	1	1	2	11			7	22
28-Jun	1	2		7	1		2	13
29-Jun	1	2	2	3		1	3	12
30-Jun	2	5	3	8	1		3	22
Grand Total	30	85	56	192	20	5	158	546



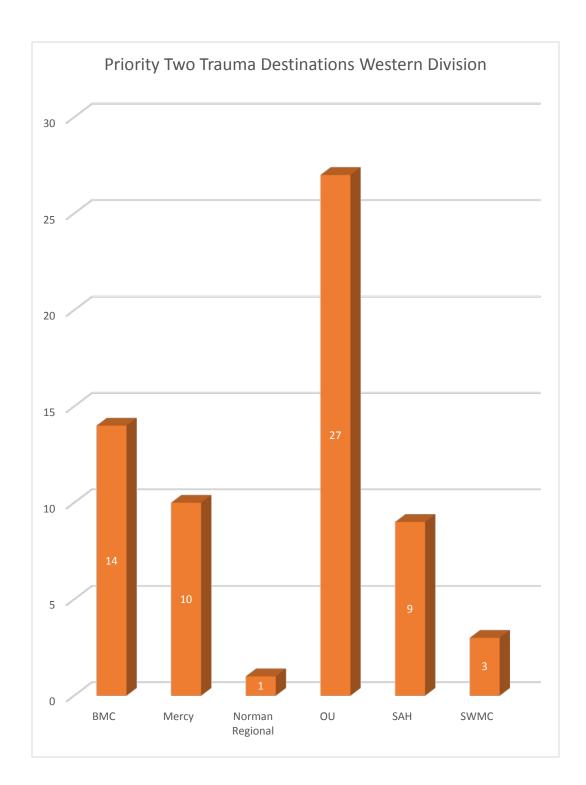
WESTERN DIVISION PRIORITY ONE TRAUMA DESTINATION

Date	вмс	OU	SAH	SWMC	Grand Total
1-Jun		1			1
2-Jun		2			2
3-Jun		1			1
4-Jun		1			1
5-Jun		2			2
6-Jun		3			3
7-Jun		3			3
8-Jun		4			4
9-Jun		4			4
11-Jun		3			3
12-Jun		3			3
13-Jun		6			6
14-Jun		4			4
15-Jun		4			4
16-Jun		1			1
17-Jun		3			3
18-Jun		2			2
19-Jun		2			2
20-Jun		4			4
21-Jun		2			2
22-Jun	1	1			2
23-Jun		4		1	5
24-Jun		3			3
25-Jun		1			1
26-Jun		1	1		2
27-Jun		1			1
28-Jun		2			2
29-Jun		2			2
30-Jun		1			1
Grand Total	1	71	1	1	74

BMC was a Burn patient. SWMC and SAH patient's were upgraded to priority one post radio report to the ED.

WESTERN DIVISION PRIORITY TWO TRAUMA DESTINATION

Date	ВМС	Mercy	Norman Regional	OU	SAH	SWMC	On Call
1-Jun				1			SWMC
2-Jun				1		1	OUMC
3-Jun		2					Mercy
4-Jun							SAH
5-Jun				1	1		OUMC
6-Jun	5						ВМС
7-Jun	1			5			OUMC
8-Jun				1	3		SAH
9-Jun	2						ВМС
10-Jun		1					Mercy
11-Jun				1			OUMC
12-Jun						2	SWMC
13-Jun				2			OUMC
14-Jun		2		1			Mercy
15-Jun							SAH
16-Jun	1			1			OUMC
17-Jun	1			1			ВМС
18-Jun				5			OUMC
19-Jun					2		SAH
20-Jun	2				1		ВМС
21-Jun			1	1			Mercy
22-Jun		1		1			OUMC
23-Jun		1		1			SWMC
24-Jun				1			OUMC
25-Jun		3					Mercy
26-Jun					1		SAH
27-Jun				2			OUMC
28-Jun	2						ВМС
29-Jun							OUMC
30-Jun				1	1		SAH
Grand Total	14	10	1	27	9	3	



WESTERN D	IVISION	PRIORITY	THREE	TRAUMA	DESTINATION
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Row Label s	B M C	B o ne	Chil dren 's	Com muni ty	C VI R	D C N	E M C	Inte gris Ed mo nd	Mc brid e	M erc y	M W C	Nor ma n	Nor ma n HP	OK H N	O K HS	OU	S A H	S A H E a st	SA H HP So ut h	SW M C	V A	Gr an d To tal
1- Jun	5				1	2	1	2		3		1			1	1	4			4		25
2- Jun	4		1			1				4		1				2				2		15
3- Jun	4					3	1	1	1	8	1					2	6			2		29
4- Jun	5			1		4	2	1	1	6	1					1	3			2		27
5- Jun	7					7				3	1					4	1			5		28
6- Jun	9		4		3	2				1	1					2	1			3	1	27
7- Jun	6		1			3	1	2	1	3	2					3	3			3		28
8- Jun	3					2	1			1						4	1			1		22
9- Jun	4		2							1			1			1	4			5	1	19
10- Jun	3		2		3	1	1	1	1	5		1					3	2		2		25
11- Jun	4						1			3						3	2			3	1	17
12- Jun	4				1	2	1	1		1	1					3	3			3	1	21
13- Jun	4		2			3		1	1	2	1					3	6			5		28
14- Jun	6					1		3		8				1		5	4			8		36
15- Jun	3				1	2		1		4	1					1	3		1	4	1	22
16- Jun	4	1	4					1		3	2						2			12		29
17- Jun	9		1		3	1		2	1	3	1						4			5	2	32
18- Jun	3				1	1		1		3	2					4	4			7	1	27
19- Jun	4					2		1	1	1						2	4			4		19
20- Jun	4		1			1	1	2		9	1					2	3			4		28

Gran d Total	1 4 3	1	29	4	2 3	5 2	1 7	27	10	12 5	19	5	2	1	2	6 5	1 0 2	2	3	12 4	9	76 5
30- Jun	5				1	1	2			3		1				1	5			2		21
29- Jun	5		2			1		1		3						3	3			4		22
28- Jun	1			2		1		1		7		1				2	3		1	2		33
27- Jun	3		1	1	2	3	1	1		2					1	3	3			6		27
26- Jun	3		2		2	1		1		9						1	3			2		24
25- Jun	4		1		1	1			1	9			1			1	7		1	4		31
24- Jun	4				2	1		1		5						5	2			6	1	27
23- Jun	6		2			1	2			5	1					4	3			6		30
22- Jun	1		1		2	3	1			4	2					1	1			3		19
21- Jun	4		2			1	1	2	2	6	1					1	2			5		27

