March 1, 2022 Committee Meeting Sign In

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Administrator's Committee

Barnsley Resort

March 1st, 2022



GEORGIA TRAUMA COMMISSION

What Are Trauma Center Readiness Costs?

- Costs incurred before the first patient is seen or treated
- Nonpatient care cost which the hospital would not have to pay if it were not a trauma center
- Costs required by trauma center regulations to maintain essential infrastructure



The Cost of Trauma Center Readiness

PA Taheri, MD, DA Butz Ph.D., L Lottenberg, MD, A Clawson, LM Flint, MD

- Surveyed 20 verified Florida Level I and II trauma centers
- 10 hospitals responded to the survey
- Focused on cost associated with:
 - Physician on-call coverage
 - Verification
 - Administration
 - Outreach
 - Prevention

The Cost of Trauma Center Readiness

PA Taheri, MD, DA Butz Ph.D., L Lottenberg, MD, A Clawson, LM Flint, MD

- Median cost of readiness for each trauma center (Level I and II combined) was \$2.7 million dollars annually
- Majority of costs was physician compensation for on-call coverage totaling \$2.1 million

The Cost of Trauma Center Readiness

PA Taheri, MD, DA Butz Ph.D., L Lottenberg, MD, A Clawson, LM Flint, MD

They noted, "the answers required some judgment by the respondents and considerable effort."



GEORGIA TRAUMA COMMISSION

Oversee fund dispersal into the entire Georgia trauma system, fairly and effectively







Survey Purpose

To provide an analysis of readiness cost for Georgia's trauma centers utilizing the readiness cost tool in conjunction with an independent financial review to verify consistent cost reporting



Level I and II



Developing Consensus for Readiness Cost Definitions

1

• Readiness Cost Subcommittee

2

Survey tool developed

3

Webinar with trauma centers to discuss proposed definitions

Δ

 Face-to-face meeting with hospital financial officers, trauma program managers, and medical directors to reach final consensus

What Are the Costs of Trauma Center Readiness? Defining and Standardizing Readiness Costs for Trauma Centers Statewide

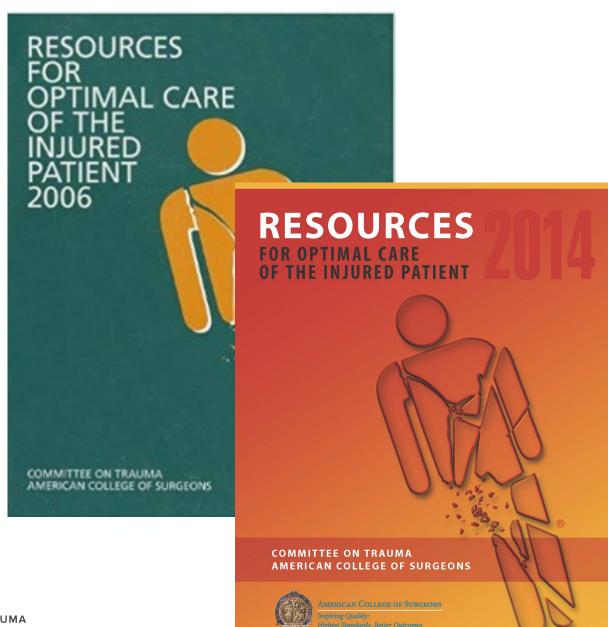
DENNIS W. ASHLEY, M.D.,* ROBERT F. MULLINS, M.D.,† CHRISTOPHER J. DENTE, M.D.,‡

2011 Survey Data

- Average annual readiness cost for a Level I trauma center was \$6,821,064
- Average annual readiness cost for a Level II trauma center was \$2,333,113

Limitations

- Self-reporting by each trauma center
- Not validated
- Resources for Optimal Care of the Injured Patient updated in 2014





Methods



Summer 2016-Spring 2017



Fall 2017



-Updated Readiness Cost Survey Tool

- Administrative/Program Support Staff
- •Clinical Medical Staff
- •In-house Operating Room
- Education/Outreach



Trauma Centers completed surveys

- 6 Level I
- 10 Level II
- 100% participation
- 2016 survey data
- Total patients-24,488
- Level I-15,660
- Level II-8,828



Validation Process

Trauma centers were asked to submit supporting documentation for the selected cost components

Overall, 33% of the total reported original costs of Level I and II trauma centers were requested to test

Webinar and Consensus Reached



Centers tested on random cost components

- Level I: selected 5 cost components for each
- Level II: selected 4 cost components for each

Spring 2018

Trauma Center Readiness Costs: Summary

Cost Category	Level I Total	Level I Mean	Level II Total	Level II mean	Level I and II Totals
Administrative/ Program Support Staff	\$21,596,099	\$3,599,350	\$13,922,471	\$1,392,247	\$35,518,570
Clinical Medical Staff	33,203,255	5,533,876	31,716,531	3,171,653	64,919,786
In-House OR Availability	4,980,890	830,148	2,521,596	252,160	\$7,502,486
Education and Outreach	690,793	115,132	1,090,426	109,043	\$1,781,219
TOTALS	60,471,035	10,078,506	49,251,024	4,925,103	109,722,061

Trauma Center Readiness Costs: Administrative

	LI TC		Range	LII TC		Range	
Administrative	Mean	#	(\$000's)	Mean	#	(\$000's)	Totals
Senior							
Administrator							
Support	\$41,424	6	12-120	\$34,119	9	12-80	\$589,739
Program							
Administrator:							
Trauma							
Director	81,522	4	46-165	45,752	6	14-171	946,653
Trauma Program							
Manager	113,269	5	92-213	88,169	8	77-136	1,561,303
Trauma							
Coordinator	109,978	4	38-390	26,190	3	61-107	921,769
Participation							
costs for state,							
regional and							
national							
activities	7,282	6	3-10	3,547	10	1-14	79,165

	Program Support Staff	LI TC Mean	#	Range (\$000's)	LII TC Mean	#	Range (\$000's)	Totals	
Education/Outreach Coordinator 57,21			4	41-132	41,003	5	5-229	753,331	
	ase Management, Discharge Planning and Social Services	638,267	6	269-1,257	234,041	10	6-471	6,170,010	
F	Program Suppor	t	LI TC Mea	an #	LII TC M	ean #	T	otals	
C	Staff					_			
S	Case Manageme	ent	638,267	6	234,04	1 10	6,1	70,010	
ï	Physical Therapy		651,115		255,54	_		62,146	
	Occupational		593,093		242,01	_		78,684	
T	Therapy		333,033		2 12,012		3,3	3, 37 3, 33	
T			E01 401	6	225 EA	6 10	E O	N2 96E	
T	Speech Therapy		591,401	. 0	235,54	9 10	3,3	03,865	
T	MD Participation Conta	0.003		0.40	1 415		0.0	E9 0E3	
	MD Participation Costs D Liaison	8,983 4,817		8-18 14-15	1,416 1,283	3	0-6 3-6	68,062 41,727	
	CU Surgical Liaison	4,062		3-17	563	1	6-6	29,995	
	Orthopedic Liaison	14,370		9-50	9,827	3	12-57	184,486	
N	leurosurgeon Liaison	6,044	3	2-21	4,716	3	2-29	83,422	
R	egistry Hardware and Software	10,821	6	5-18	11,473	10	4-20	179,654	
	creening, brief intervention and eferral for treatment (SBIRT)	4,650	2	1-27	930	1	9-9	37,197	
Т	hromboelastography (TEG)	59,623	4	27-175	990	1	10-10	367,640	

	Clinical Medical Staff	LI TC Mean	#	Range (\$000's)	LII TC Mean	#	Range (\$000's)	Totals	
	Trauma/Surgical Sub- Specialists:			,			.		
	Trauma Surgery Trauma Physician	\$1,388,013	5	193-2,904	1,049,326	9	91-3,563	\$18,821,337	
	Extender	187,141	2	179-944	94,361	4	76-503	2,066,461	
С	linical Medical Staff	LIT	C I	Mean #	LII TC	Mea	ın #	Totals	
	Trauma Surgery	\$1,3	388	3,013 5	\$1,049),32	6 9	\$18,821,33	7
	Orthopedics	1,0	99	,369 6	718,0	521	9	13,782,42	4
	Neurosurgery Ophthalmology	5 3	•	9 53 6	326, 1 _{16,672}	717 5	9 5-137	6,506,89	1
	Oral/ Maxillofacial	50,166	3	35-193	87,011	4	0-450	1,171,102	
	ENT	87,121	5	2-267	38,940	7	2-152	912,129	
	Plastics	237,612	5	4-548	40,059	4	4-365	1,826,257	
	Critical Care Medicine	5,891	1	35-35	165,893	7	17-666	1,694,277	
	Radiology	108,086	1	649-649	72,053	4	26-423	1,369,042	
	Urology	46,547	4	1-183	22,066	6	1-100	499,945	
	Vascular	164,066	4	160-381	16,374	3	0-91	1,148,136	

Outreach and Education Costs

Education and Outreach	LI TC Mean \$	#	Range (\$000's)	LII TC Mean \$	#	Range (\$000's)	Totals \$
Injury prevention	\$31,338.17	4	5-126	\$15,223	8	0-126	\$340,262
Community outreach	20,903	4	2-104	5,965	6	0-42	185,063
Professional education	13,715	4	2-60	8,911	7	2-63	171,404
Outlying hosp. education	4.250	3	3-13	-	0	0	25.500
Emergency Department Staff	20,412	4	8-57	45,834	9	7-201	580,804
Intensive Care Unit Staff	5,708	2	10-24	14,002	9	0-76	174,265
Surg/PACU Staff		0	0	11,987	5	0-95	119,867

Education and Outreach Costs

Required CME/CNE	LI TC Mean \$	#	Range (\$000's)	LII TC Mean \$	#	Range (\$000's)	Totals \$
TMD	4,157	6	2-6	2,996	10	0-8	54,897
ТРМ	3,886	6	0-12	1,051	6	0-3	33,825
TP Coordinator	1,527	3	0-8	646	4	0-3	15,627
Trauma Registrar	2,063	2	0-12	839	4	0-5	20,765
ED Liaison	1,762	5	0-5	201	2	0-2	12,579
ICU Liaison	1,708	3	3-5	50	1	0-0	10,750
Neurosurg Liaison	1,833	4	1-5	514	3	0-4	16,140
Orthopedic Liaison	1,870	4	1-5	825	2	4-5	19,471

How much green does it take to be orange? Determining the cost associated with trauma center readiness

Trauma Center	Average annual readiness cost	Most significant cost	Lowest Cost
Level I	\$10,078,506	Clinical Medical Staff	Education and Outreach
Level II	\$4,925,103	Clinical Medical Staff	Education and Outreach

The significant cost of trauma center readiness highlights the need for additional trauma center funding

Level III and IV

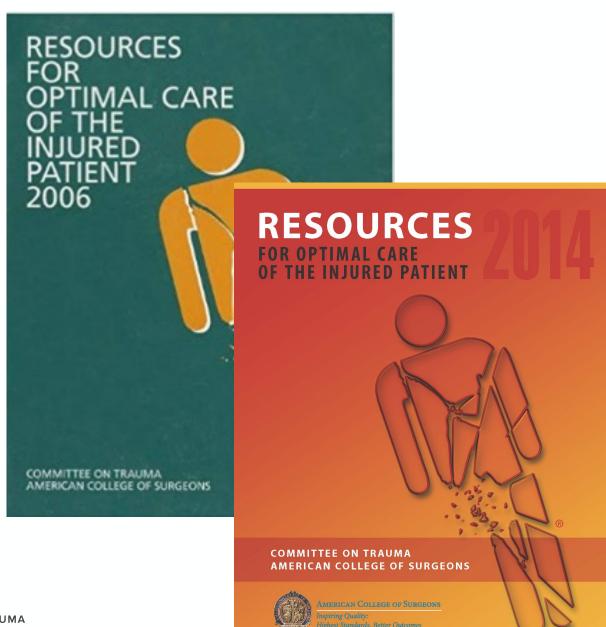


Developing Consensus for Readiness Cost Definitions

- Based on well-developed process from Level I and II surveys
- Level III and IV Committee Leadership workgroup
- Survey tool adapted from Level I and II readiness cost survey
- Webinar with trauma centers to review survey tool components
- Developed FAQ document based on feedback

Limitations

- Self-reporting by each trauma center
- Resources for Optimal Care of the Injured Patient updated in 2014
- Several hospital systems were involved in acquisitions that limited access to supporting documentation





Methods



Spring-Summer 2021

- -Formalized Level III/IV Subcommittee
- -Readiness Cost Workgroup
- -Adapted Level I/II Survey Tool for Level III/IV
- Administrative/Program Support Staff
- Clinical Medical Staff
- Medical Subspecialists
- Education/Outreach



October 2021

Trauma centers completed surveys

- 8 Level IIIs
- 6 Level IVs
- 100% participation
- Survey data year 2019
- Total number of patients 4,868
- Level III centers 4,401
- Level IV centers 467

- -Webinars
- Readiness Cost Survey Tool Review
- Q & A
- -Modified tool based on feedback
- -Samples selected for testing

-Centers tested on random cost components

- Level III: 66 cost components
- Level IV: 24 cost components
- -Trauma centers were asked to submit supporting documentation for the selected cost components
- -Overall, 57% of the total reported original costs of Level III and IV trauma centers were requested to test

December 2021-January 2022
Validation Process

Fall 2021



Trauma Center Readiness Costs: Summary

Cost Category	Level III Total	Level III Mean	Level IV Total	Level IV Mean	Level III and IV Totals
Administrative/Program Support Staff	\$ 6,245,395	\$ 780,674	\$ 474,033	\$ 79,005	\$ 6,719,428
Clinical Medical Staff	7,365,251	920,656	-		\$ 7,365,251
In House OR Availability	-		-		-
Education and Outreach	109,561	13,695	15,689	2,615	\$ 125,250
Totals	\$ 13,720,207	\$ 1,715,025	\$ 489,722	\$ 81,620	\$ 14,209,929

Trauma Center Readiness Costs: Administrative

Administrative	Level III Mean	#	Range (\$000's)	Level IV Mean	#	Range (\$000's)	Totals
Senior Administrator Support	\$ 17,332	7	6-36	\$ 6,245	5	1-30	\$ 176,131
Program Administrator: Trauma Director	51,147	5	19-127	8,750	1	53-53	\$ 461,677
Trauma Program Manager/Coordinator	67,694	5	78-144	46,456	6	14-91	\$ 820,287
Participation costs for state, regional and national activities	2,999	7	0-8	2,131	4	2-8	\$ 36,779

	Level III		Range	Level IV		Range	
Program Support Staff	Mean	#	(\$000's)	Mean	#	(\$000's)	Totals
Education/Outreach Coordinator	1,325	2	5-5	-	-	-	\$ 10,597
Respiratory Therapy	109,891	8	28-231	11,793	5	3-34	\$ 949,887
Case Management, Discharge Planning, and Social Services	87,283	8	28-158	-	-	-	\$ 698,261
Physical Therapy	99,686	8	39-198	-	-	-	\$ 797,486
Occupational Therapy	109,214	8	36-198	-	-	-	\$ 873,715
Speech Therapy	114,792	8	31-220	-	-	-	\$ 918,333
Injury Prevention Coordinator	7,214	3	2-43	-	-	-	\$ 57,708
Research Coordinator	-	-	-	-	-	-	\$ -
PI Coordinator	23,271	5	0-75	-	-	-	\$ 186,171
Trauma Registrar – Employed	31,956	7	5-70	-	-	-	\$ 255,651
Trauma Registrar – Contract	-	-	-	-	-	-	\$ -
Trauma Program Secretary	7,061	2	1-56	-	-	-	\$ 56,488
Trauma Medical Director (TMD)	23,722	6	4-84	468	2	1-2	\$ 192,587
TMD Participation Costs	3,039	6	3-6	242	2	0-1	\$ 25,760
ED Liaison	6,268	2	3-47	-	-	-	\$ 50,144
ICU Surgical Liaison	2,247	3	5-8	-	-	-	\$ 17,979
Orthopedic Liaison	2,559	2	2-18	-	-	-	\$ 20,476
Neurosurgeon Liaison	1,143	1	9-9	-	-	-	\$ 9,144
Anesthesia Liaison	291	1	2-2	-	-	-	\$ 2,325
Registry Hardware and Software	10,292	7	6-17	2,920	6	2-4	\$ 99,862
Screening, brief intervention and referral for treatment (SBIRT)	248	1	2-2	-	-	-	\$ 1,980
Thromboelastography (TEG)		-	-	-	<u>-</u>	_	\$ _

Program Support Staff	Level III Mean	#	Range (\$000's)	Level IV Mean	#	Range (\$000's)	Totals
Education/Outreach Coordinator	1,325	2	5-5	-	-		\$ 10,597
Program Support Staff		Level III M	lean	Level IV I	Mean		Total
Respiratory Therapy			109,891		11,793	Ç	5949,887
Speech Therapy			114,792			Ç	5918,333
Occupational Therapy			109,214			Ç	873,715
Physical Therapy			99,686			Ç	5797,486
Case Management, Dischar Planning, and Social Servi			87,283			Š	6698,261
referral for treatment (SBIRT) Thromboelastography (TEG)	248	1	2-2	-	-	-	\$ 1,980 \$ -

	Level III		Range	Level IV		Range	
Clinical Medical Staff	Average	#	(\$000's)	Average	#	(\$000's)	Totals
Trauma Surgery	\$ 326,941	\$ 8	5-1,388	\$ -	-		\$ 2,615,528
Trauma Physician Extender		_	_	-	-		\$ -
Orthopedics (166,534	7	5-548	-	-		\$ 1,332,274
Neurosurgery	80,818	4	8-344	-	_		\$ 646,548
Anesthesia	56,518	5	4-307	-	-		\$ 452,145
Radiology	57,146	1	457-457	-	-		\$ 457,167
Urology	19,886	4	2-120	-	-		\$ 159,089
Vascular	5,062	2	2-38	-	-		\$ 40,495
Emergency Medicine							
Physician Coverage	45,830	4	11-206	-	-		\$ 366,642
Emergency Medicine Physician/APP	-	-	-	-	-		\$ -
Internal Medicine	38,687	3	67-137	-	_		\$ 309,496
Cardiology	36,453	3	5-280	-	-		\$ 291,628
Gastroenterology	24,147	2	2-192	-	_		\$ 193,174
Infectious Disease	-	-	-	-	-		\$ -
Pulmonary Medicine	7,606	2	4-57	-	<u>-</u>		\$ 60,846
Nephrology	918	2	1-7	-	-		\$ 7,337

Education and Outreach Costs

Education and Outreach	Level III Mean	#	Range (\$000's)	Level IV Mean	#	Range (\$000's)	Totals
Injury Prevention	\$ 87	2	0-1	\$ 444	2	1-2	\$ 3,355
Community Outreach	1,183	4	0-8	314	3	1-1	\$ 11,350
Professional Education	1,952	3	1-10	369	3	0-1	\$ 17,827
Outlying Hospital Education	_	-	_	-	-	_	_

Education and Outreach Costs

Education and	Level III		Range	Level IV		Range	
Outreach	Mean	#	(\$000's)	Mean	#	(\$000's)	Totals
Trauma Medical Director	1,197	3	1-4	-	-	-	\$ 9,579
Trauma Program Manager	1,176	3	1-6	398	3	0-1	\$ 11,795
Trauma Registrar	428	2	1-2	-	-	-	\$ 3,423
Maintain Current ATLS	-	-	-	449	3	0-1	\$ 2,695
Emergency Department	7,138	6	3-21	-	-	-	\$ 57,100
Intensive Care Unit	242	2	0-2	-	-	-	\$ 1,933
Surgery/PACU	292	1	2-2	-	-	-	\$ 2,346
Prehospital and Hospital Based Provider Training	-	-	_	641	2	1-3	\$ 3,847

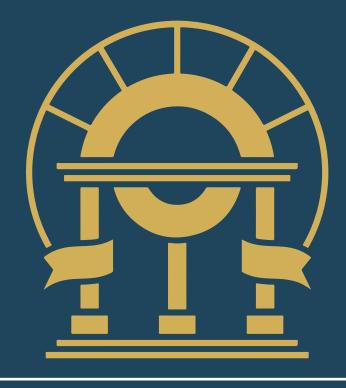
Level III/IV Readiness Costs Summary

Trauma Center	Average annual readiness cost	Most significant cost	Lowest Cost	
Level III	\$ 1,715,025	Trauma Surgeon Staff	Education and Outreach	
Level IV	Level IV \$ 81,620		TMD Participation Costs	



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