



# Allocation of Trauma System Funding

## GEORGIA TRAUMA COMMISSION

**Dennis Ashley, MD, Chair**  
**Joe Sam Robinson, MD**  
**Leon Haley, MD**  
**Ben Hinson**

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# **GEORGIA TRAUMA COMMISSION CHARGE**

**SB 60 enabled the formation of the Georgia Trauma Commission and The Georgia Trauma Fund, and charged the Commission with allocating the Fund fairly and effectively, acting as the accountability mechanism, and overseeing the flow of funds into the entire Georgia trauma system.**

**The Georgia Trauma Commission has completed its due diligence and is ready to allocate the Trauma Fund in a manner that we believe is fair, based upon expert analysis and facts, and best supports stabilizing and strengthening the Georgia Trauma System.**



# GEORGIA TRAUMA SYSTEM FUNDING

## **TRAUMA CENTER ALLOCATION**

Trauma Center Readiness Costs  
Capital Grants for LI & L2 Trauma Centers  
Level IV Trauma Center Costs  
Uncompensated Care Costs

### **Total Trauma Center Allocation**

## **TRAUMA PHYSICIAN ALLOCATION**

Readiness Costs  
Uncompensated Care Costs

### **Total Trauma Physician Allocation**

## **EMS/PREHOSPITAL ALLOCATION**

EMS Competitive Grant Program  
EMS Uncompensated Care  
GPS & Automatic Vehicle Locator System

### **Total EMS/Prehospital Allocation**

## **OVERSIGHT & SYSTEM DEVELOPMENT**

## **TOTAL GEORGIA TRAUMA FUND**



# READINESS/PREPAREDNESS COSTS

Readiness costs are for additional resources required by a hospital's status as a trauma center. A survey of Georgia Level I & II Trauma Center readiness costs was conducted by national experts, who asked for cost information in the following categories.

- Medical staff payments for trauma call**
- 24 hour OR staffing**
- Higher staffing levels for lab/diagnostic services**
- Ground or air transportation**
- Support services**
- Injury prevention**
- Training of nurses and physicians**
- Administrative infrastructure of trauma programs**
- Physician extenders**
- Verification process**
- Trauma specific equipment**
- Other trauma center costs**

The survey results were evaluated based upon national trauma center norms and adjusted to bring outliers in line with norms. The results are a reasonable estimate of readiness costs for Level I & II Trauma Centers in Georgia.

## READINESS/PREPAREDNESS COSTS

Readiness Cost	Level I TC	Average	Level II	Average	LI/II Total
Total Medical Staff	\$12,017,488	\$3,004,372	\$10,343,929	\$1,063,557	\$22,361,417
24 Hour OR Staffing	\$2,665,000	\$666,250	\$3,177,955	\$338,631	\$5,842,955
Higher Staffing Levels	\$510,000	\$127,500	\$665,404	\$54,983	\$1,175,404
Transportation	\$1,756,000	\$439,000	\$325,008	\$43,334	\$2,081,008
Support Services	\$674,201	\$168,550	\$405,406	\$33,411	\$1,079,607
Injury Prevention	\$77,775	\$19,444	\$408,021	\$23,292	\$485,796
Training	\$218,440	\$54,610	\$454,195	\$34,796	\$672,635
Administration	\$1,817,534	\$454,384	\$3,680,934	\$330,791	\$5,498,468
Physician Extenders	\$733,259	\$183,315	\$235,160	\$18,021	\$968,419
Verification Process	\$3,300	\$825	\$34,250	\$1,100	\$37,550
Trauma Specific Equip	\$335,000	\$83,750	\$517,838	\$37,934	\$852,838
Other Costs*	Included Above		\$3,007,126	\$245,395	\$3,007,126
<b>Total</b>	<b>\$20,807,997</b>	<b>\$5,201,999</b>	<b>\$23,255,227</b>	<b>\$2,225,245</b>	<b>\$44,063,224</b>

\*Other costs include those that may not fit into above categories such as outreach and capital costs for trauma facility enhancements like large trauma resuscitation rooms in the ED.

# READINESS/PREPAREDNESS COSTS

Hospital	Trauma Patients	Allocation
A2- Archbold	299	\$ 1,522,429
B2- Atlanta	1150	\$ 1,522,429
C2- Columbus	618	\$ 1,522,429
D2- Floyd	371	\$ 1,522,429
E2- Gwinett	675	\$ 1,522,429
F2- Hamilton	123	\$ 1,522,429
G2- North Fulton	616	\$ 1,522,429
H2- Egleston	442	\$ 1,522,429
I2- Scottish Rite	441	\$ 1,522,429
<b>Total Level II</b>	<b>4,735</b>	<b>\$ 13,701,859</b>
A1- Grady	2409	\$ 2,537,381
B1- MCCG	1012	\$ 2,537,381
C1- MCG	1561	\$ 2,537,381
D1- Memorial Health	1562	\$ 2,537,381
<b>Total Level I</b>	<b>6,544</b>	<b>\$ 10,149,526</b>
<b>Grand Totals</b>	<b>11,279</b>	<b>\$23,851,385</b>



# LEVEL I/II TRAUMA CENTER GRANT PROGRAM

<b>Capital Grants for LI &amp; LII Trauma Centers</b>	<b>\$4,148,602</b>
<b>Level IV Trauma Center Costs (2)</b>	<b>\$200,000</b>



# **UNCOMPENSATED TRAUMA CARE COSTS**

# UNCOMPENSATED TRAUMA CARE COSTS

A survey of Georgia Level I & II Trauma Centers was also conducted to determine the volume, severity and costs of treating uninsured patients who cannot pay their bills.

## National Trauma Norms Used To Estimate Costs

To develop a fair and consistent approach to estimating costs, national trauma center patient treatment cost norms by injury severity were used, for both community and academic hospitals.

These norms were developed over the past decade by the National Foundation for Trauma Care and its predecessors and have been previously used for trauma care economic analysis in Texas, Arizona, New Mexico, South Carolina, Illinois and Oklahoma.

Patient Treatment Cost Norms		
ISS	Community	Academic
0-8	\$5,267	\$6,373
9-15	\$10,428	\$12,618
16-24	\$19,626	\$23,747
>24	\$33,945	\$41,073

## An Example In Red

Trauma hospital B2's 90 ISS 0-8 self pay trauma registry patients are multiplied times the academic cost norm of \$6,373 to arrive at \$573,576. This is repeated for other ISS categories to arrive at the total of \$4,098,183. This is then divided by total volume of 242 to arrive at an average expected cost of treatment of \$16,935 for hospital B2's self pay trauma patients.

ISS	B2 Vol	X Academic Norm Cost	= Total
0-8	90	\$6,373	\$573,576
9-15	45	\$12,618	\$567,805
16-24	83	\$23,747	\$1,971,039
>24	24	\$41,073	\$985,763
<b>Totals</b>	<b>242</b>	<b>\$16,935</b>	<b>\$4,098,183</b>

# UNCOMPENSATED TRAUMA CARE COSTS

Trauma Hospital	Self Pay Patients From Registry					Adjusting For Payment		Cost Norm Based Distribution Model		
	ISS 0-8	ISS 9-15	ISS 16-24	ISS >24	Total # of Self Pay Pts From Registry	% of Self Pay Costs Not Paid By Patient	# Adj Self Pay Pts	Com & Academic Hosp Severity Adj Cost Norms	Total Costs TC Cost Norms X Adj. Self Pay Vol	% of Norm Cost Total
A2	33	26	15	11	85	100%	85	\$13,091	\$1,112,724	2.9%
B2	90	45	83	24	242	89%	214	\$16,935	\$3,627,216	9.4%
C2	51	55	22	19	147	94%	138	\$13,054	\$1,796,425	4.6%
D2	19	33	12	14	78	65%	51	\$14,807	\$749,717	1.9%
E2	43	82	35	40	200	59%	118	\$15,631	\$1,845,281	4.8%
F2	17	16	4	5	42	96%	40	\$12,015	\$484,048	1.2%
G2	27	35	10	10	82	84%	69	\$12,718	\$877,689	2.3%
H2	20	12	11	6	49	83%	41	\$16,052	\$652,448	1.7%
I2	20	19	1	2	42	65%	27	\$9,309	\$253,156	0.7%
<b>Level II</b>	<b>320</b>	<b>323</b>	<b>193</b>	<b>131</b>	<b>967</b>	<b>83%</b>	<b>804</b>	<b>\$14,172</b>	<b>\$11,398,704</b>	<b>29.4%</b>
A1	489	377	217	139	1222	88%	1,078	\$15,332	\$16,533,135	42.6%
B1	90	59	17	8	174	81%	140	\$11,783	\$1,653,016	4.3%
C1	89	104	56	43	292	83%	242	\$17,039	\$4,119,955	10.6%
D1	83	155	85	51	374	77%	288	\$17,642	\$5,082,251	13.1%
<b>Level I</b>	<b>751</b>	<b>695</b>	<b>375</b>	<b>241</b>	<b>2062</b>	<b>85%</b>	<b>1,760</b>	<b>\$15,560</b>	<b>\$27,388,357</b>	<b>70.6%</b>
<b>Total LI/II</b>	<b>1071</b>	<b>1018</b>	<b>568</b>	<b>372</b>	<b>3029</b>	<b>85%</b>	<b>2,568</b>	<b>\$15,101</b>	<b>\$38,787,061</b>	<b>100.0%</b>

# PHYSICIAN TRAUMA CARE COSTS

Hospital/Physician Fund Division	Hospital	Physician	Total
Trauma Center Readiness Costs %	75.0%	25.0%*	100.0%
Amount	\$ 17,888,539	\$ 5,962,846	\$23,851,385
Uncompensated Care Costs %	75.0%	25.0%	100.0%
Amount	\$ 17,888,539	\$ 5,962,846	\$23,851,385
<b>Total</b>	<b>\$ 35,777,078</b>	<b>\$ 11,925,693</b>	<b>\$47,702,770</b>

Trauma Centers must do the following:

- Administer physician funds at own cost.
- Assure that at least 25%\* of funds allocated for readiness will be paid to eligible physicians providing trauma related services to patients receiving services at trauma center.
- Assure they allocate 25% of their total uncompensated care funds to physicians. If excess funds are available, then these funds will be used for either trauma research or continuing medical education for physicians who serve that hospital's trauma service.
- Eligible physicians for participation in the uncompensated care fund are as follows: Emergency physicians, trauma surgeons, neurosurgeons, orthopedists/hand surgeons, plastics/maxillofacial surgeons, anesthesiologists, and radiologists.



## EMS/PREHOSPITAL COSTS

EMS/PRE-HOSPITAL ALLOCATION	AMOUNT
EMS Competitive Grant Program	\$ 4,000,000
EMS Uncompensated Care	\$ 1,479,945
GPS & Automatic Vehicle Locator System	\$ 996,452
<b>Total EMS/Pre-hospital Allocation</b>	<b>\$ 6,476,397</b>



# **SUMMARY OF TRAUMA ALLOCATIONS**

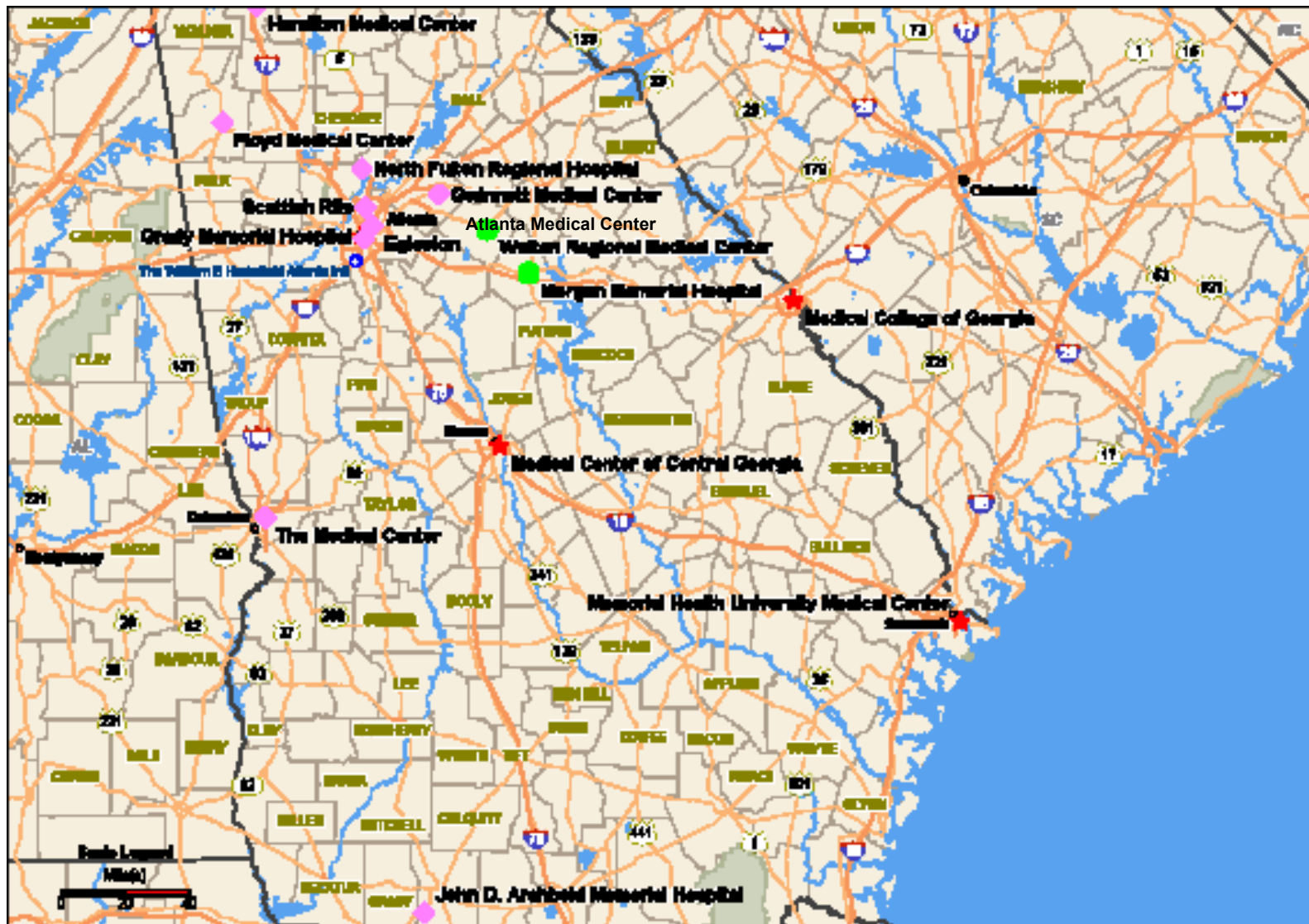
# HOSPITAL FUNDING ALLOCATIONS

Trauma Hospital	Uncompensated Care Cost Pool	Readiness Cost Pool	Total	% of Funding
A2- Archbold	\$ 684,249	\$ 1,522,429	\$ 2,206,678	4.6%
B2- Atlanta	\$ 2,230,489	\$ 1,522,429	\$ 3,752,918	7.9%
C2- Columbus	\$ 1,104,678	\$ 1,522,429	\$ 2,627,107	5.5%
D2- Floyd	\$ 461,024	\$ 1,522,429	\$ 1,983,453	4.2%
E2- Gwinett	\$ 1,134,721	\$ 1,522,429	\$ 2,657,150	5.6%
F2- Hamilton	\$ 297,656	\$ 1,522,429	\$ 1,820,085	3.8%
G2- North Fulton	\$ 539,719	\$ 1,522,429	\$ 2,062,147	4.3%
H2- Egleston	\$ 401,211	\$ 1,522,429	\$ 1,923,640	4.0%
I2- Scottish Rite	\$ 155,674	\$ 1,522,429	\$ 1,678,103	3.5%
<b>Level II Totals</b>	<b>\$ 7,009,422</b>	<b>\$ 13,701,859</b>	<b>20,711,282</b>	<b>43.4%</b>
A1- Grady	\$ 10,166,745	\$ 2,537,381	\$ 12,704,126	26.6%
B1- MCCG	\$ 1,016,492	\$ 2,537,381	\$ 3,553,873	7.5%
C1- MCG	\$ 2,533,490	\$ 2,537,381	\$ 5,070,871	10.6%
D1- Memorial Health	\$ 3,125,236	\$ 2,537,381	\$ 5,662,618	11.9%
<b>Level I Totals</b>	<b>\$ 16,841,963</b>	<b>\$ 10,149,526</b>	<b>\$ 26,991,488</b>	<b>56.6%</b>
<b>Total LI/LII</b>	<b>\$ 23,851,385</b>	<b>\$ 23,851,385</b>	<b>\$ 47,702,770</b>	<b>100.0%</b>

# GEORGIA TRAUMA SYSTEM FUNDING

Trauma Center Allocation	Amount	% of Total
Trauma Center Readiness Costs	\$ 17,888,539	30.4%
Capital Grants for LI & LII Trauma Centers	\$ 4,148,602	7.0%
Level IV Trauma Center Costs (2)	\$ 200,000	0.3%
Uncompensated Care Costs	\$ 17,888,539	30.4%
<b>Total Trauma Center Allocation</b>	<b>\$ 40,125,680</b>	<b>68.1%</b>
Trauma Physician Allocation		
25% of Trauma Center Readiness Costs	\$ 5,962,846	10.1%
25% of Trauma Center Uncompensated care	\$ 5,962,846	10.1%
<b>Total Physician Allocation</b>	<b>\$ 11,925,693</b>	<b>20.2%</b>
EMS/Pre-Hospital Allocation		
EMS Competitive Grant Program	\$ 4,000,000	6.8%
EMS Uncompensated Care	\$ 1,479,945	2.5%
GPS & Automatic Vehicle Locater System	\$ 996,452	1.7%
<b>Total EMS/Prehospital Allocation</b>	<b>\$ 6,476,397</b>	<b>11.0%</b>
Oversight & System Development		
Trauma Commission/System Plan & Dev	\$ 375,000	0.6%
<b>Total Oversight/Development Allocation</b>	<b>\$ 375,000</b>	<b>0.6%</b>
<b>TOTAL 2008-09 GEORGIA TRAUMA FUND</b>	<b>\$ 58,902,769</b>	<b>100.0%</b>

# GEORGIA TRAUMA CENTERS





# **QUESTIONS & ANSWERS**

**The Georgia Trauma Commission appreciates the support provided by the Georgia Healthcare Foundation in conducting this analysis.**