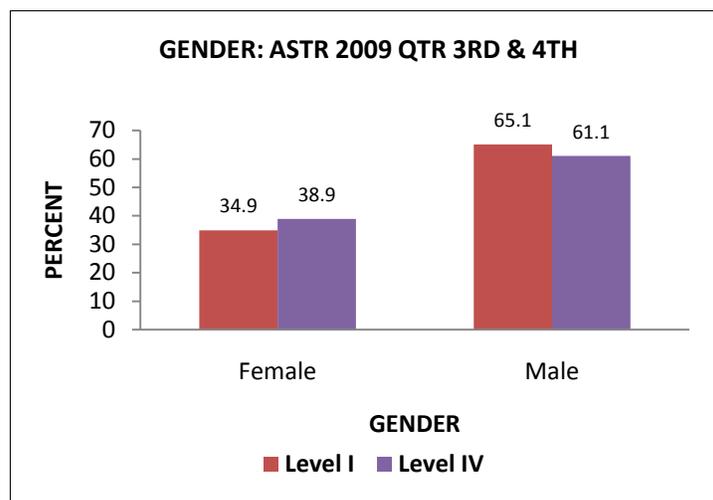
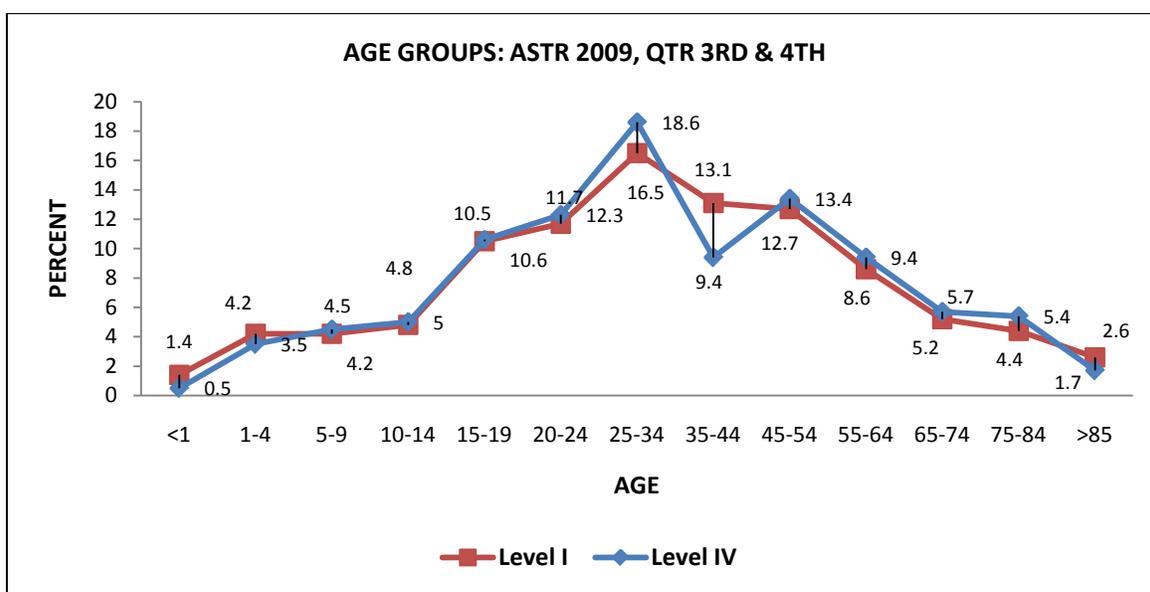


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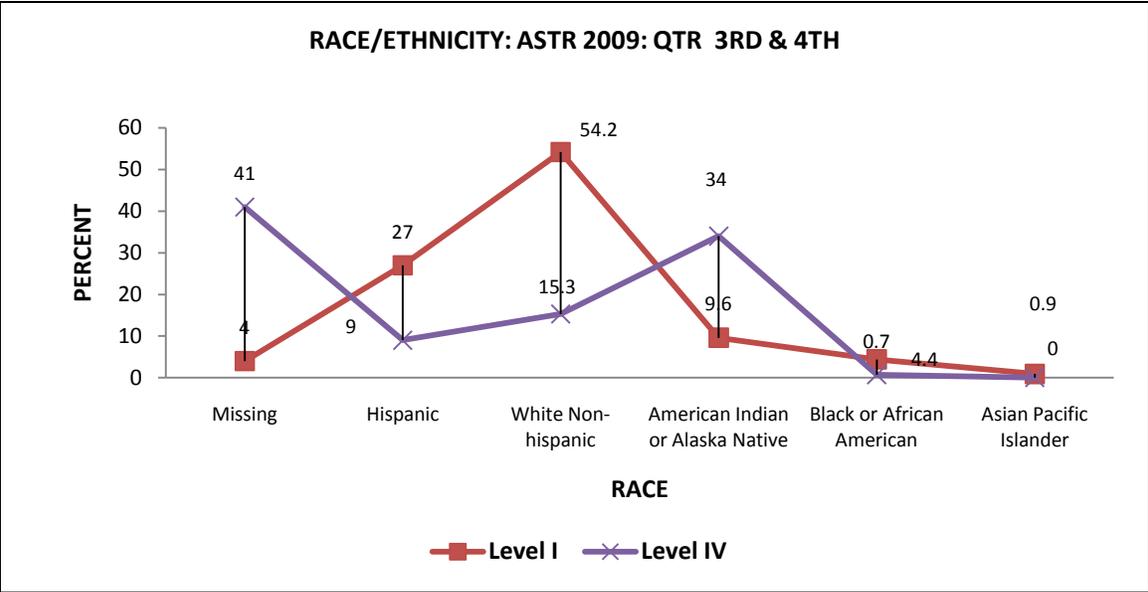
ASTR 2009: Quarter 3rd and 4th

This report summarizes data compiled from Arizona State Trauma Registry (ASTR) for the 3rd and 4th quarters of the year 2009. A total of 13,124 patients were entered into ASTR for these two quarters. A total of 11,398 patients were treated at Level-I hospitals, 424 patients were treated at Level IV hospitals, and remaining 1,302 patients were treated at non-designated hospitals submitting data to ASTR. This report shows aggregates of Level-I and Level-IV in each of the tables and graphs. Non-designated hospitals submitting data to ASTR are excluded from these aggregates.

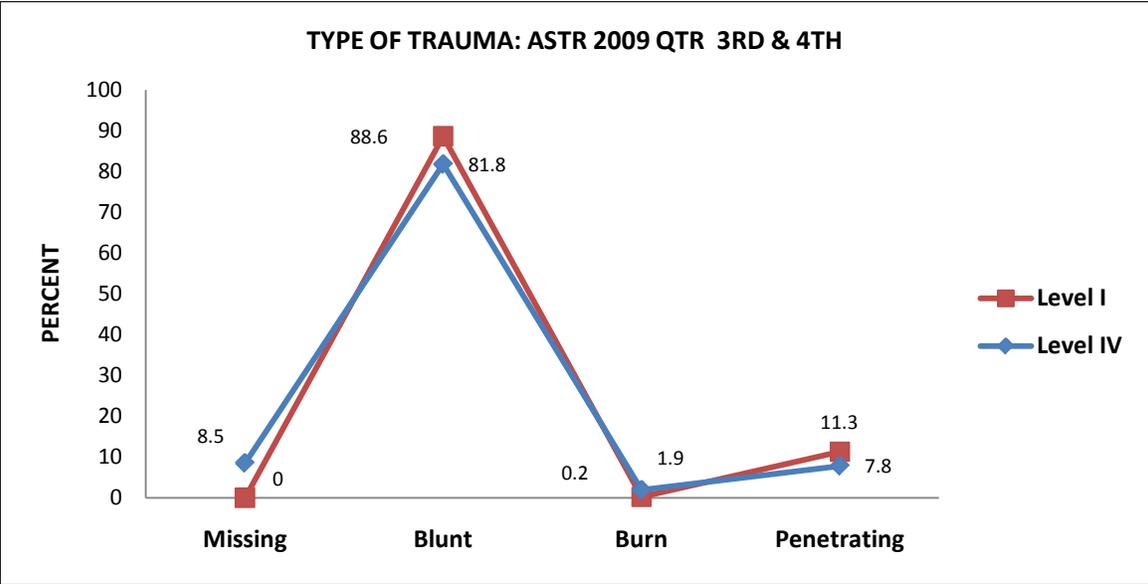
Demographics by Type of Hospital:



ASTR 2009: Quarter 3rd and 4th



Type of Trauma:



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Injury Type	Hospital Type			
	Level-I Trauma Centers		Level-IV Trauma Centers	
	Count	Percent	Count	Percent
Mechanism of Injury				
*Missing	2	0.0	1	0.2
Motor Vehicle Traffic	4,637	40.7	187	44.1
Firearm	440	3.9	6	1.4
Poisoning	5	0.0	1	0.2
Falls	2,667	23.4	85	20.0
Suffocation	16	0.1	1	0.2
Drowning	3	0.0	1	0.2
Fire/Burn	9	0.1	6	1.4
Cut/Pierce	678	5.9	19	4.5
Struck By/Against	1,184	10.4	36	8.5
Machinery	54	0.5	1	0.2
Pedal Cyclist, Other	264	2.3	2	0.5
Pedestrian, Other	35	0.3	3	0.7
Transport, other	812	7.1	49	11.6
Natural/Environmental	103	0.9	7	1.7
Overexertion	19	0.2	1	0.2
Other Specified	198	1.7	6	1.4
Not elsewhere classifiable	79	0.7	6	1.4
unspecified	193	1.7	6	1.4

Discharge Status	Hospital Type			
	Level-I Trauma Centers		Level-IV Trauma Centers	
	Count	Percent	Count	Percent
ED Discharge Status				
*Missing	369	3.2	0	0
Expired	135	1.2	5	1.2
ICU	2,518	22.1	11	2.6
Floor	3,418	30.0	48	11.3
Home No Service	2,975	26.1	191	45.0
Home Service	3	0.0	2	0.5
Left AMA	29	0.3	3	0.7
Observe	317	2.8	17	4.0
OR	1,203	10.6	11	2.6
Transfer	41	0.4	134	31.6
Step Down	390	3.4	2	0.5
Inpatient Discharge Status				
*Not Applicable	3,187	28.0	335	79.0
Home	6,481	56.9	76	17.9
Home Health	142	1.2	2	0.5
Expired	195	1.7	2	0.5
Hospice	68	0.6	0	0
Interim Care Facility	26	0.2	1	0.2
Acute Care	46	0.4	2	0.5
Discharged, SNF	522	4.6	1	0.2
Left AMA	83	0.7	3	0.7
Other Rehab or LTC	648	5.7	2	0.5
Total Died				
Died	330	2.9	6	1.4
Lived	11,068	97.1	418	98.6

Injury Severity Score:

Injury Severity Score	Hospital Type			
	Level-I Trauma Centers		Level-IV Trauma Centers	
	Count	Percent	Count	Percent
ISS				
*Missing	313	2.7	26	6.1
0-8	7,273	63.8	289	68.2
9-15	2,413	21.2	76	17.9
16-24	841	7.4	23	5.4
25-75	558	4.9	10	2.4

Injury Severity Score by Length of Stay:

Total Length of stay by ISS	Hospital Type					
	Level-I Trauma Centers			Level-IV Trauma Centers		
	Total Length of Stay			Total Length of Stay		
	Mean	Median	Std	Mean	Median	Std
ISS						
*Missing	1.5	1.0	1.2	1.2	1.0	1.0
0-8	2.0	1.0	3.0	1.3	1.0	1.0
9-15	4.9	3.0	5.2	2.3	1.0	3.4
16-24	8.4	5.0	10.1	2.4	1.0	6.3
25-75	10.2	6.0	11.6	1.0	1.0	0.0

* ISS is based on AIS for Level-I and is based on ICD-9 for Level-IV

Type of Transportation:

Type of Transportation	Hospital Type			
	Level-I Trauma Centers		Level-IV Trauma Centers	
	Count	Percent	Count	Percent
Air-Ground Transportation				
Air	2,689	23.6	7	1.7
Ground	7,592	66.6	194	45.8
Unknown/Missing/Other	1,117	9.8	223	52.6

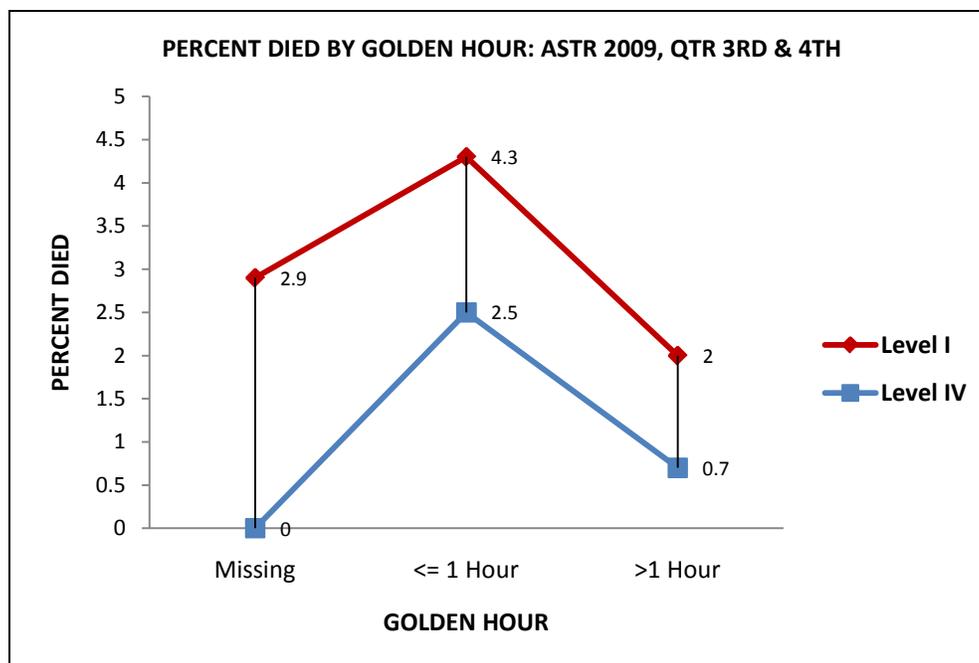
Inter-facility Transfers:

Total Transfer Patients	Hospital Type	
	Level-I Trauma Centers	Level-IV Trauma Centers
	Count	Count
Total patients for this quarter	11,398	424
Patient with no transfer	9,086	417
Patient with one transfer	2,290	7
Patients with 2 or more transfers	22	0

Length of Stay and Transfer Patients	Hospital Type	
	Level-I Trauma Centers	Level-IV Trauma Centers
	Count	Count
Total patients for this quarter	11,398	424
Patients with no transfer	9,085	417
Patient with LOS <= 6 hours at transferring facility	1,531	0
Patients with LOS >6 hours at transferring facility	132	0
Patients with transfers but no LOS information available	650	7

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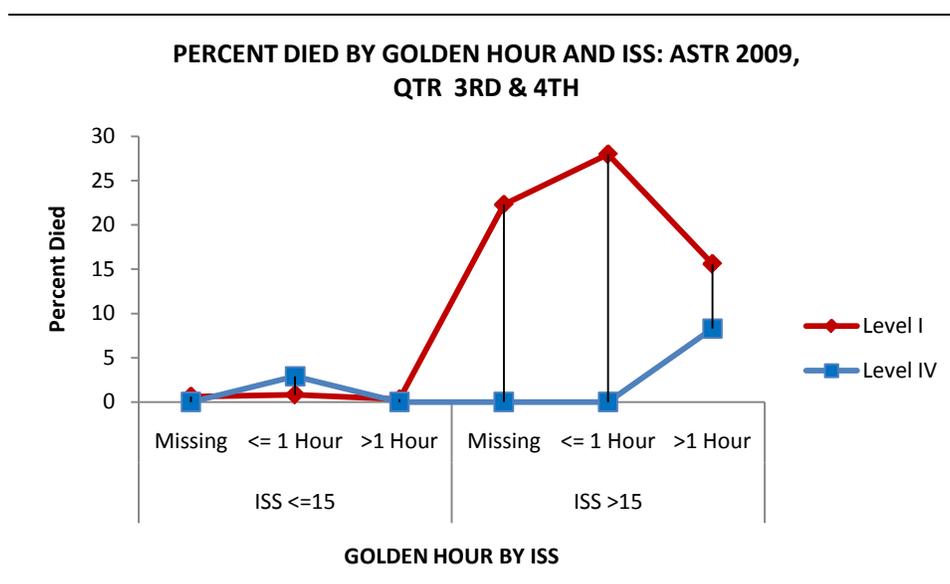
Golden Hour		Outcome				Total patients with no transfer	
		Died		Lived		Count	Percent
Hospital Type	Golden Hour	Count	Percent	Count	Percent	Count	Percent
Level-I Trauma Centers	*Missing	66	2.9	2,216	97.1	2,282	25.1
	<= 1 Hour	153	4.3	3,366	95.7	3,519	38.7
	>1 Hour	67	2.0	3,218	98.0	3,285	36.2
	Total patients with no transfer	286	3.1	8,800	96.9	9,086	100.0
Level-IV Trauma Centers	Golden Hour						
	*Missing	0	0.0	72	100.0	72	17.3
	<= 1 Hour	5	2.5	197	97.5	202	48.4
	>1 Hour	1	0.7	142	99.3	143	34.3
	Total patients with no transfer	6	1.4	411	98.6	417	100.0



Transfer patients are excluded from this analysis

ASTR 2009: Quarter 3rd and 4th

Golden Hour by ISS			Outcome				Total patients with no transfer	
			Died		Lived			
Hospital Type	ISS	Golden Hour	Count	Percent	Count	Percent	Count	Percent
Level-I Trauma Centers	*Missing	*Missing	0	0	72	100.0	72	25.9
		<= 1 Hour	0	0	121	100.0	121	43.5
		>1 Hour	0	0	85	100.0	85	30.6
	ISS <=15	*Missing	12	0.6	1,956	99.4	1,968	25.5
		<= 1 Hour	22	0.8	2,908	99.2	2,930	38.0
		>1 Hour	8	0.3	2,814	99.7	2,822	36.6
	ISS >15	*Missing	54	22.3	188	77.7	242	22.2
		<= 1 Hour	131	28.0	337	72.0	468	43.0
		>1 Hour	59	15.6	319	84.4	378	34.7
Level-IV Trauma Centers	*Missing	*Missing	0	0	3	100.0	3	12.0
		<= 1 Hour	0	0	15	100.0	15	60.0
		>1 Hour	0	0	7	100.0	7	28.0
	ISS <=15	*Missing	0	0	63	100.0	63	17.5
		<= 1 Hour	5	2.9	167	97.1	172	47.9
		>1 Hour	0	0	124	100.0	124	34.5
	ISS >15	*Missing	0	0	6	100.0	6	18.2
		<= 1 Hour	0	0	15	100.0	15	45.5
		>1 Hour	1	8.3	11	91.7	12	36.4



**ISS is based on AIS for Level-I and is based on ICD-9 for other hospitals
Transfer patients are excluded from this analysis**

ASTR 2009: Quarter 3rd and 4th

Golden Hour by Transport			Outcome				Total patients with no transfer	
			Died		Lived		Count	Percent
Hospital Type	Type of transport	Golden Hour	Count	Percent	Count	Percent		
Level-I Trauma Centers	Air	*Missing	15	4.0	356	96.0	371	19.7
		<= 1 Hour	8	2.9	269	97.1	277	14.7
		>1 Hour	49	4.0	1,191	96.0	1,240	65.7
	Ground	*Missing	48	3.3	1,401	96.7	1,449	23.5
		<= 1 Hour	144	4.8	2,845	95.2	2,989	48.5
		>1 Hour	18	1.0	1,705	99.0	1,723	28.0
Level-IV Trauma Centers	Air	<= 1 Hour	0	0	2	100.0	2	28.6
		>1 Hour	0	0	5	100.0	5	71.4
	Ground	*Missing	0	0	1	100.0	1	0.5
		<= 1 Hour	3	2.6	112	97.4	115	61.2
		>1 Hour	0	0	72	100.0	72	38.3

*Unknown and Other transportation type are excluded from this analysis
Transfer patients are excluded from this analysis*