Appendix 3

Supplemental Table - Characteristics and Operating Room Access Variables among acute care general hospitals in the United States that do not provide round-the-clock emergency general surgery (EGS) care by percentage of time round-the-clock care is lacking (n=279)

	1-20% not providing round-the-clock EGS n (%)	>20% not providing round- the-clock EGS	41-60% not providing round-the-clock EGS n (%)
Variable	H (70)	n (%)	H (70)
Hospital Characteristics	T	T	T
Ownership	75 (60 00()	(0 (47 (0))	0.1107
Non-governmental	75 (60.0%)	60 (47.6%)	0.1106
Governmental (non-	34 (27.2%)	49 (38.9%)	
federal)	16 (12 00/)	17 (12 50/)	
Investor-owned	16 (12.8%)	17 (13.5%)	0.2702
Location	70 (57 60())	CA (50.00())	0.2792
Urban	72 (57.6%)	64 (50.8%)	
Rural	53 (42.4%)	62 (49.2%)	
Teaching status			
Major	-	1 (0.8)	0.4088
Minor	21 (16.8%)	16 (12.7%)	
Non-teaching	104 (83.2%)	109 (86.5%)	
Medical school affiliation			
Yes	14 (11.2%)	12 (9.5%)	0.6630
No	111 (88.8%)	114 (90.5%)	
Bed size			
<199	120 (96.0%)	123 (97.6%)	0.3137
200-499	5 (4.0%)	2 (1.6%)	
500 or more beds	-	1 (0.8%)	
Region			
New England	5 (4.0%)	1 (0.8%)	0.3042
East North Central	26 (20.8%)	18 (14.3%)	
East South Central	14 (11.2%)	14 (11.1%)	
Middle Atlantic	4 (3.2%)	9 (7.1%)	
Mountain	15 (12.0%)	15 (11.9%)	
Pacific	6 (4.8%)	5 (4.0%)	
South Atlantic	12 (9.6%)	12 (9.5%)	
West North Central	30 (24.0%)	28 (22.2%)	
West South Central	30 (24.0%)	28 (22.2%)	
Trauma Certification			
Yes	51 (42.5%)	52 (44.4%)	0.7627
No	69 (57.5%)	65 (55.6%)	
<b>Operating Room Availabili</b>	ty		

Number of operating rooms			
<10	111 (94.1%)	111 (98.2%)	0.0117
10-20	7 (5.9%)	-	0.0117
>20	-	2 (1.8)	
Block Time for EGS (%)		2 (1.0)	
<1 Block time	114 (91.9%)	115 (95.8%)	0.4153
1-4 Days	7 (5.7%)	4 (3.3%)	0.1133
>5 days	3 (2.4%)	1 (0.8%)	
Tiered system for booking	3 (2.170)	1 (0.070)	
emergent surgical cases			
Yes	67 (58.8%)	33 (29.0%)	< 0.0001
No	47 (41.2%)	81 (71.1%)	.0.0001
Process to defer elective	., (11.270)	01 (71.170)	
cases			0.0024
Yes	81 (70.4%)	58 (50.9%)	0.002
No	34 (29.6%)	56 (49.1%)	
Surgical Coverage		100 (1512)(1)	I .
Daytime surgeons covering			
EGS free of other clinical			0.6220
duties			
Yes	2 (1.6%)	1 (0.9%)	
No	122 (98.4%)	111 (99.1%)	
Daytime surgeon on call for			
EGS working post-call			0.3294
Always/Often	118 (97.5%)	101 (98.1%)	
Sometimes	2 (1.7%)	-	
Rarely/Never	1 (0.8%)	2 (1.9%)	
In-house surgeon overnight			
for EGS			0.0515
Always/Often	31 (25.6%)	15 (14.6%)	
Sometimes	6 (5.0%)	11 (10.7%)	
Rarely/Never	84 (69.4%)	77 (74.8%)	
Overnight surgeon also	,	,	
responsible for covering			
trauma			0.0007
Always/Often	80 (66.1%)	45 (43.7%)	
Sometimes	4 (3.3%)	14 (13.6%)	
Rarely/Never	37 (30.6%)	44 (42.7%)	
Overnight surgeon also		, ,	
responsible for covering			
ICU care			0.0486
Always/Often	34 (28.1%)	17 (16.4%)	
Sometimes	11 (9.1%)	6 (5.8%)	
Rarely/Never	76 (62.8%)	81 (77.9%)	
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Overnight surgeon also						
responsible for covering						
EGS at more than one			0.0155			
hospital			0.0122			
Always/Often	14 (11.6%)	24 (23.5%)				
Sometimes	17 (14.1%)	6 (5.9%)				
Rarely/Never	90 (74.4%)	72 (70.6%)				
Surgeon Covering EGS						
receives stipend beyond			0.0130			
billing for services rendered						
Always/Often	23 (19.0%)	8 (7.7%)				
Sometimes	10 (8.3%)	4 (3.9%)				
Rarely/Never	88 (72.7%)	92 (88.5%)				
<b>Overnight Peri-Operative S</b>	taffing					
Overnight scrub techs						
None	-	1 (1.4%)	0.4128			
On-call	108 (98.2%)	68 (95.8%)				
In-house	2 (1.8%)	2 (2.8%)				
Overnight OR nurses						
None	-	-	0.3263			
On-call	109 (99.1%)	69 (97.2%)				
In-house	1 (0.9%)	2 (2.8%)				
Overnight recovery room						
nurses			0.7205			
None	6 (5.5%)	4 (5.6%)				
On-call	102 (93.6%)	67 (94.4%)				
In-house	1 (0.9%)	-				
Overnight anesthesia staff						
(MD, DO, CRNA)						
None	70 (66.7%)	45 (70.3%)	0.3885			
On-call	32 (30.5%)	15 (23.4%)				
In-house	3 (2.9%)	4 (6.3%)				
*Student T-test, Wilcox Rank	*Student T-test, Wilcox Rank Sum and Chi <sup>2</sup> tests of association where appropriate					