

Supplementary Appendix

This appendix has been provided by the authors to give readers additional information about their work.

Supplement to: Birkmeyer JD, Stukel TA, Siewers AE, et al. Surgeon Volume and Operative Mortality in the United States. *N Engl J Med* 2003;349:2117-27.

Supplementary Appendix 1. Number of Medicare Patients Treated by Low-Volume Surgeons, Medium-Volume Surgeons, and High-Volume Surgeons in Different Hospital-Volume Strata.*

Variable	Low-Volume Hospitals			Medium-Volume Hospitals			High-Volume Hospitals			Total
	Low-Volume Surgeons	Medium-Volume Surgeons	High-Volume Surgeons	Low-Volume Surgeons	Medium-Volume Surgeons	High-Volume Surgeons	Low-Volume Surgeons	Medium-Volume Surgeons	High-Volume Surgeons	
Cardiovascular procedures										
Carotid endarterectomy										
No. of patients	23,149	14,988	7,020	13,316	17,129	15,255	9,469	12,319	23,404	136,049
No. of surgeons	4,843	1,047	436	2,466	769	373	1,680	504	358	8,818
Coronary-artery bypass grafting										
No. of patients	40,209	22,445	11,196	21,133	27,836	24,426	12,012	23,188	38,147	220,592
No. of surgeons	1,927	501	262	679	327	224	378	247	245	2,772
Aortic-valve replacement										
No. of patients	7,863	4,979	1,418	3,989	6,070	4,097	1,987	3,470	8,668	42,541
No. of surgeons	1,440	402	108	543	298	115	239	153	159	2,440
Elective repair of an abdominal aortic aneurysm										
No. of patients	7,696	4,264	1,154	3,600	5,493	4,239	2,056	3,646	7,646	39,794
No. of surgeons	3,279	800	218	1,333	642	282	795	379	310	6,276
Cancer resections										
Pancreatic resection										
No. of patients	673	289	6	324	514	238	65	120	831	3,060
No. of surgeons	671	185	4	324	256	52	65	59	71	1,624
Esophagectomy										
No. of patients	267	228	18	129	317	140	50	113	378	1,640
No. of surgeons	267	176	12	129	215	52	50	68	77	997
Resection for lung cancer										
No. of patients	4,451	2,913	906	2,122	3,295	2,352	1,095	2,152	4,806	24,092
No. of surgeons	2,247	633	191	876	444	181	440	274	189	4,178
Cystectomy (bladder)										
No. of patients	1,596	556	179	795	587	528	325	263	1,511	6,340
No. of surgeons	1,366	273	84	627	243	131	272	104	185	2,918

* Because some surgeons operate at multiple hospitals, the number of surgeons does not add up to the total for the rows.