

Table 2: Characteristics Across Categories of Hospital-specific Erythrocyte Transfusion Rate (Post-hoc Analysis)

	Categories of hospital-specific erythrocyte transfusion rate				
	Category 1 (15 hospitals, 39,859 patients)	Category 2 (15 hospitals, 41,678 patients)	Category 3 (16 hospital, 39,033 patients)	Category 4 (8 hospitals, 22,080 patients)	Category 5 (12 hospitals, 19,450 patients)
Erythrocyte transfusions					
Number (rate)	5,069 (12.7%)	7,289 (17.5%)	9,247 (23.7%)	7,096 (32.1%)	8,314 (42.5%)
Range of hospital-specific rates	10.3% to 14.6%	14.7% to 19.5%	19.6% to 26.7%	27.3% to 34.1%	34.3% to 57.9%
Demographics					
Female	23,905 (60.0%)	24,253 (58.2%)	23,047 (59.0%)	13,384 (60.6%)	11,663 (59.7%)
Age in years (mean ± SD)	68 ± 10	68 ± 10	68 ± 10	68 ± 10	69 ± 10
Rural residence	5,065 (12.7%)	9,186 (22.0%)	9,011 (23.1%)	2,349 (10.6%)	2,023 (10.4%)
Income quintile					
1 (lowest)	6,983 (17.5%)	8,061 (19.3%)	6,936 (17.8%)	3,942 (17.9%)	2,963 (15.2%)
2	8,329 (20.9%)	8,331 (20.0%)	7,816 (20.0%)	4,817 (21.8%)	3,659 (18.7%)
3	7,812 (19.6%)	7,885 (18.9%)	8,065 (20.7%)	4,690 (21.2%)	3,971 (20.3%)
4	7,752 (19.4%)	8,059 (19.3%)	8,054 (20.6%)	4,432 (20.1%)	4,077 (20.9%)
5 (highest)	8,882 (22.3%)	9,216 (22.1%)	8,012 (20.5%)	4,153 (18.8%)	4,834 (24.7%)
Missing	101 (0.3%)	126 (0.3%)	150 (0.4%)	46 (0.2%)	36 (0.2%)
Comorbid Diseases					
Ischemic heart disease	3,459 (8.7%)	3,383 (8.1%)	3,166 (8.1%)	2,135 (9.7%)	1,828 (9.4%)
Congestive heart failure	571 (1.4%)	725 (1.7%)	684 (1.8%)	358 (1.6%)	306 (1.6%)
Atrial fibrillation	850 (2.1%)	957 (2.3%)	876 (2.2%)	531 (2.4%)	455 (2.3%)

Hypertension	26,246 (65.8%)	27,338 (65.6%)	26,014 (66.6%)	14,752 (66.8%)	13,350 (68.3%)
Cerebrovascular disease	578 (1.5%)	706 (1.7%)	625 (1.6%)	339 (1.5%)	307 (1.6%)
Peripheral vascular disease	360 (0.9%)	486 (1.2%)	433 (1.1%)	249 (1.1%)	286 (1.5%)
Diabetes mellitus	7,310 (18.3%)	7,912 (19.0%)	7,524 (19.3%)	4,277 (19.4%)	3,602 (18.4%)
Renal insufficiency or dialysis	405 (1.0%)	540 (1.3%)	474 (1.2%)	288 (1.3%)	303 (1.6%)
Pulmonary disease	2,392 (6.0%)	2,492 (6.0%)	1,914 (4.9%)	1,276 (5.8%)	1,371 (7.0%)
Prior venous thromboembolism	163 (0.4%)	204 (0.5%)	178 (0.5%)	108 (0.5%)	115 (0.6%)
Liver disease	171 (0.4%)	250 (0.6%)	164 (0.4%)	98 (0.4%)	98 (0.5%)
Rheumatologic disease	1,086 (2.7%)	1,393 (3.3%)	986 (2.5%)	612 (2.8%)	587 (3.0%)
Hemiplegia or paraplegia	117 (0.3%)	130 (0.3%)	83 (0.2%)	61 (0.3%)	63 (0.3%)
Dementia	211 (0.5%)	209 (0.5%)	206 (0.5%)	119 (0.5%)	115 (0.6%)
Malignancy					
Primary	870 (2.2%)	950 (2.3%)	785 (2.0%)	464 (2.1%)	486 (2.5%)
Metastatic	126 (0.3%)	180 (0.4%)	136 (0.3%)	136 (0.6%)	102 (0.5%)
Hospital characteristics					
Teaching hospital	10,014 (25.1%)	17,668 (42.4%)	6,642 (17.0%)	7,816 (35.4%)	6,548 (33.5%)
High-volume*	22,481 (56.5%)	28,163 (67.6%)	22,474 (57.6%)	7816 (35.4%)	0 (0%)
Surgical Procedure					
Total hip replacement	14,861 (37.3%)	17,522 (42.0%)	15,142 (38.8%)	8,516 (38.6%)	8,274 (42.3%)
Total knee replacement	24,998 (62.7%)	24,156 (58.0%)	23,891 (61.2%)	13,564 (61.4%)	11,266 (57.7%)
Year of surgery					
1999	3,625 (9.1%)	3,834 (9.2%)	3,931 (10.1%)	1,980 (9.0%)	2,147 (11.0%)
2000	3,205 (8.0%)	3,894 (9.3%)	3,716 (9.5%)	1,853 (8.4%)	1,973 (10.1%)

2001	3,694 (9.3%)	3,915 (9.4%)	3,759 (9.6%)	2,051 (9.3%)	2,007 (10.3%)
2002	3,897 (9.8%)	3,926 (9.4%)	3,709 (9.5%)	2,162 (9.8%)	1,830 (9.4%)
2003	4,234 (10.6%)	3,713 (8.9%)	3,849 (9.9%)	2,285 (10.3%)	1,880 (9.6%)
2004	4,449 (11.2%)	4,833 (11.6%)	4,405 (11.3%)	2,467 (11.2%)	2,146 (11.0%)
2005	5,274 (13.2%)	5,919 (14.2%)	5,115 (13.1%)	2,788 (12.6%)	2,496 (12.8%)
2006	5,728 (14.4%)	5,879 (14.1%)	5,253 (13.5%)	3,276 (14.8%)	2,466 (12.6%)
2007	5,753 (14.4%)	5,765 (13.8%)	5,296 (13.6%)	3,218 (14.6%)	2,595 (13.3%)
Concomitant transfusions					
Autologous erythrocytes	2,210 (5.5%)	1,131 (2.7%)	2,682 (6.9%)	949 (4.3%)	519 (2.7%)
Platelets	40 (0.1%)	53 (0.1%)	53 (0.1%)	71 (0.3%)	146 (0.7%)
Plasma	124 (0.3%)	187 (0.4%)	173 (0.4%)	176 (0.8%)	247 (1.3%)
Outcomes					
30-day mortality	117 (0.29%)	145 (0.35%)	132 (0.34%)	89 (0.40%)	72 (0.37%)
1-yr mortality	553 (1.39%)	665 (1.60%)	560 (1.43%)	368 (1.67%)	311 (1.60%)

Data are numbers (proportion) unless otherwise indicated.

* Rank in total number of eligible procedures performed during the study period > 50th percentile.