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Supplementary Table 1: Comparison of patient demographics and baseline characteristics between patients who met inclusion criteria in the study and those who were excluded. THA, total hip arthroplasty. TKA, total knee arthroplasty

Variable	Included (n = 11,672)	Excluded (n =1,518)	p-value
Age (years)	65.84 (10.15)	65.31 (11.63)	0.06
Sex (male)	4726 (40.5%)	595 (39.2%)	0.334
BMI (kg/m²)	31.65 (6.58)	31.60 (7.22)	0.795
Race			**<0.001**
American Indian/Alaska Native	17 (0.1%)	2 (0.1%)	
Asian	69 (0.6%)	6 (0.4%)	
Black	1545 (13.2%)	267 (17.6%)	
Multiracial/Multicultural	187 (1.6%)	21 (1.4%)	
Other	19 (0.2%)	1 (0.1%)	
White	9835 (84.3%)	1221 (80.4%)	
Hispanic	414 (3.5%)	33 (2.2%)	**0.005**
Smoking status	1052 (9.0%)	148 (9.7%)	**0.005**
Current	6295 (53.9%)	781 (51.4%)	
Never	433 (3.7%)	83 (5.5%)	
Quit less than 6 months ago	3892 (33.3%)	506 (33.3%)	
Quit more than 6 months ago	168 (30.8%)	984 (30.6%)	
Years of education	14.00 (2.85)	14.06 (3.03)	0.462
Insurance			0.383
Medicaid/Medicare	4228 (36.2%)	523 (34.5%)	
Private/Commercial	7299 (62.5%)	977 (64.4%)	
Self-Pay/Other	145 (1.2%)	18 (1.2%)	
Charlson Comorbidity Index	1.05 (1.57)	1.29 (1.90)	**< 0.001**
Anesthesia	2970 (25.4%)	340 (22.4%)	**0.036**
General	389 (3.3%)	52 (3.4%)	
Spinal	8313 (71.2%)	1126 (74.2%)	
Other	185 (25.7%)	958 (29.8%)	
Surgical Site			**< 0.001**
Hospital A	1285 (11.0%)	74 (4.9%)	
Hospital B	1917 (16.4%)	157 (10.3%)	
Hospital C	1595 (13.7%)	64 (4.2%)	
Hospital D	747 (6.4%)	131 (8.6%)	
Hospital E	2517 (21.6%)	457 (30.1%)	

Hospital F	1664 (14.3%)	424 (27.9%)
Hospital G	310 (2.7%)	51 (3.4%)
Hospital H	931 (8.0%)	73 (4.8%)
Hospital I	706 (6.0%)	87 (5.7%)

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Supplementary Table 2. Results of multivariate regression analysis to explore odds of discharge to facility by patient demographic factors, insurance status, ambulatory status, entry steps, bedroom location, bathroom location, caregiver support, and home location. BMI: body mass index. CCI: Charleston Comorbidity Index. THA: total hip arthroplasty. TKA: total knee arthroplasty. In our cohort, all self-pay patients who underwent THA (73 patients, 100%) were discharged to home.

	THA			TKA		
	Odds Ratio	95% CI	P value	Odds Ratio	95% CI	P value
Age	1.048	1.04 - 1.06	**<0.001**	1.077	1.06 - 1.09	**<0.001**
BMI	1.051	1.04 - 1.07	**<0.001**	1.047	1.03 - 1.06	**<0.001**
Sex						
Female	*reference*			*reference*		
Male	0.687	0.56 - 0.84	**<0.001**	0.638	0.53 - 0.78	**<0.001**
CCI	1.193	1.13 - 1.25	**<0.001**	1.144	1.09 - 1.2	**<0.001**
Education (years)	0.916	0.89 - 0.95	**<0.001**	0.978	0.95 - 1.01	0.16
Smoking Status						
Never	*reference*			*reference*		
Current	0.955	0.68 - 1.33	0.787	1.428	0.99 - 2.05	0.054
Quit less than 6 months	0.866	0.54 - 1.4	0.559	1.817	1.13 - 2.92	**0.014**
Quit more than 6 months	0.838	0.68 - 1.03	0.089	1.133	0.94 - 1.37	0.193
Insurance						
Commercial	*reference*			*reference*		
Medicaid/Medicare	3.1	2.3 - 4.18	**<0.001**	2.266	1.68 - 3.06	**<0.001**
Self-Pay/Other	--	--	0.961	0.506	0.11 - 2.35	0.384
Preoperative Ambulatory Status						
Impaired Community Distances	*reference*			*reference*		
Impaired Home Distances	2.701	1.81 - 4.03	**<0.001**	1.97	1.3 - 2.98	**0.001**
Independent Community Distances	0.745	0.6 - 0.92	**0.007**	0.562	0.46 - 0.69	**<0.001**
Minimal Ambulation or Wheelchair Bound	16.614	6.72 - 41.11	**<0.001**	12.85	5.71 - 28.94	**<0.001**
Entry Steps	1.017	0.99 - 1.05	0.269	1.045	1.01 - 1.08	**0.005**
Bed Location						
First Floor	*reference*			*reference*		
Second Floor	0.844	0.62 - 1.14	0.273	0.902	0.68 - 1.19	0.468
Bath Location						
First Floor	*reference*			*reference*		
Second Floor	1.139	0.82 - 1.59	0.444	1.146	0.85 - 1.55	0.376
Caregiver Assistance						
Consistent/Live in (5-7 days/week)	*reference*			*reference*		
Inconsistent/None	1.332	1.06 - 1.67	**0.012**	2.016	1.64 - 2.48	**<0.001**
Occasionally Available (2-4 days/wk)	2.218	1.65 - 2.99	**<0.001**	2.66	1.99 - 3.55	**<0.001**
Home Location						
< 150 miles	*reference*			*reference*		

> 150 miles	1.194	0.74 - 1.92	0.466	1.351	0.8 - 2.28	0.259

Supplementary Table 3: The number patients discharged to Facility and Home after THA or TKA was recorded in each year of the study period from 2017 to 2020. A significant decreasing trend in the rate of discharge to Facility was observes ($p<0.001$).

	2017 (N=1883)	2018 (N=3894)	2019 (N=4772)	2020 (N=1123)	p value
Discharge:					< 0.001
Facility	251 (13.3%)	484 (12.4%)	485 (10.2%)	74 (6.6%)	
Home	1632 (86.7%)	3410 (87.6%)	4287 (89.8%)	1049 (93.4%)	

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Appendix Table 4. *comparison of TKA/THA patient determinants between those discharged to facility vs. those discharged to home while having scores predictive of facility discharge*

Comparison of TKA patient determinants between those discharged to facility vs. those discharged to home while having scores predictive of facility discharge			
	Facility (N=302)	Home (N=555)	p value
Age			< 0.001
Mean (SD)	75.444 (8.700)	71.917 (8.665)	
Range	40.000 - 98.000	47.000 - 92.000	
Body Mass Index			0.862
Mean (SD)	33.526 (7.305)	33.441 (6.665)	
Range	18.515 - 61.731	17.128 - 54.579	
Sex			0.612
Female	247 (81.8%)	446 (80.4%)	
Male	55 (18.2%)	109 (19.6%)	
Race			0.523
Asian	5 (1.7%)	7 (1.3%)	
Black	78 (25.8%)	119 (21.4%)	
Multiracial/Multicultural	6 (2.0%)	17 (3.1%)	
Other	1 (0.3%)	3 (0.5%)	
White	212 (70.2%)	409 (73.7%)	
Charlson Comorbidity Index			0.023
Mean (SD)	1.894 (1.907)	1.586 (1.887)	
Range	0.000 - 9.000	0.000 - 11.000	
Ethnicity			0.019
Hispanic	8 (2.6%)	35 (6.3%)	
Not Hispanic	294 (97.4%)	520 (93.7%)	
Smoking status			0.037
Current	17 (5.6%)	24 (4.3%)	
Never	157 (52.0%)	341 (61.4%)	
Quit <6 month	5 (1.7%)	13 (2.3%)	
Quit >6 month	123 (40.7%)	177 (31.9%)	
Insurance status			< 0.001
Commercial	16 (5.3%)	95 (17.1%)	
Medicaid/Medicare	286 (94.7%)	456 (82.2%)	
Self	0 (0.0%)	4 (0.7%)	
Anesthesia type			0.105
General	101 (33.4%)	195 (35.1%)	
Other	16 (5.3%)	14 (2.5%)	

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Spinal	185 (61.3%)	346 (62.3%)	
Center			< 0.001
A	33 (10.9%)	32 (5.8%)	
B	41 (13.6%)	165 (29.7%)	
C	29 (9.6%)	137 (24.7%)	
D	28 (9.3%)	21 (3.8%)	
E	20 (6.6%)	36 (6.5%)	
F	88 (29.1%)	74 (13.3%)	
G	16 (5.3%)	30 (5.4%)	
H	22 (7.3%)	28 (5.0%)	
I	25 (8.3%)	32 (5.8%)	

Comparison of THA patient determinants between those discharged to facility vs. those discharged to home while having scores predictive of facility discharge			
	Facility (N=265)	Home (N=376)	p value
Age			< 0.001
Mean (SD)	75.706 (9.724)	73.189 (9.311)	
Range	37.000 - 95.000	42.000 - 93.000	
Body Mass Index			< 0.001
Mean (SD)	32.080 (7.619)	30.204 (6.410)	
Range	15.728 - 66.296	15.975 - 51.353	
Sex			0.41
Female	221 (83.4%)	304 (80.9%)	
Male	44 (16.6%)	72 (19.1%)	
Race			0.271
Asian	1 (0.4%)	2 (0.5%)	
Black	50 (18.9%)	55 (14.6%)	
Multiracial/Multicultural	2 (0.8%)	8 (2.1%)	
Other	0 (0.0%)	2 (0.5%)	
White	212 (80.0%)	309 (82.2%)	
Charlson Comorbidity Index			< 0.001
Mean (SD)	2.079 (2.090)	1.205 (1.572)	
Range	0.000 - 10.000	0.000 - 9.000	
Ethnicity			0.071
Hispanic	5 (1.9%)	17 (4.5%)	
Not Hispanic	260 (98.1%)	359 (95.5%)	
Smoking status			0.402
Current	19 (7.2%)	37 (9.8%)	

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Never	139 (52.5%)	192 (51.1%)	
Quit <6 month	8 (3.0%)	18 (4.8%)	
Quit >6 month	99 (37.4%)	129 (34.3%)	
Insurance status			0.017
Commercial	19 (7.2%)	44 (11.7%)	
Medicaid/Medicare	246 (92.8%)	326 (86.7%)	
Self	0 (0.0%)	6 (1.6%)	
Anesthesia type			< 0.001
General	79 (29.8%)	173 (46.0%)	
Other	10 (3.8%)	21 (5.6%)	
Spinal	176 (66.4%)	182 (48.4%)	
Center			< 0.001
A	18 (6.8%)	9 (2.4%)	
B	53 (20.0%)	81 (21.5%)	
C	14 (5.3%)	128 (34.0%)	
D	17 (6.4%)	18 (4.8%)	
E	22 (8.3%)	17 (4.5%)	
F	79 (29.8%)	52 (13.8%)	
G	5 (1.9%)	25 (6.6%)	
H	37 (14.0%)	35 (9.3%)	
I	20 (7.5%)	11 (2.9%)	