

Supplementary Online Content

Chen EY, Marcantonio A, Torretta P III. Correlation between 24-hour pre-discharge opioid use and amount of opioids prescribed at hospital discharge.

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eTable. Demographics, Opioid Consumption, and Prescription by Hospital

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

eTable. Demographics, Opioid Consumption, and Prescription by Hospital

	Post-op Length of Stay > 24 hrs	No opioids within 24 hrs pre-discharge	Not over-prescribed	Potential over-prescription	p-value (Not over-prescribed vs. Potential over-prescription)
Demographics					
Patients, No.	18,343	6,548	3,691	2,988	< 0.001
BMC	9,795	2,579	1,395	1,229	< 0.001
LHMC-B	8,548	3,969	2,296	1,759	< 0.001
<i>p-value (BMC vs. LHMC-B)</i>	< 0.001	< 0.001	< 0.001	< 0.001	
Admissions, No.	20,035	6,981	3,930	3,051	< 0.001
BMC	10,574	2,702	1,458	1,244	< 0.001
LHMC-B	9,461	4,279	2,472	1,807	< 0.001
<i>p-value (BMC vs. LHMC-B)</i>	< 0.001	< 0.001	< 0.001	< 0.001	
Surgical procedures, No.	21,452	7,607	4,346	3,261	< 0.001
BMC	11,292	2,933	1,602	1,331	< 0.001
LHMC-B	10,160	4,674	2,744	1,930	< 0.001
<i>p-value (BMC vs. LHMC-B)</i>	< 0.001	< 0.001	< 0.001	< 0.001	
Age, mean (range), y	52.2 (0 - 101)	58.6 (0 - 101)	59.7 (0 - 101)	57.4 (4 - 100)	< 0.001
BMC	44.7 (0 - 97)	47.2 (0 - 97)	46.5 (0 - 94)	48.1 (4 - 97)	0.05
LHMC-B	61.1 (15 - 101)	66.2 (16 - 101)	68 (16 - 101)	63.9 (16 - 100)	< 0.001
<i>p-value (BMC vs. LHMC-B)</i>	< 0.001	< 0.001	< 0.001	< 0.001	
Male sex, No. (%)	8274 (45%)	3463 (53%)	2068 (56%)	1475 (49%)	< 0.001
BMC	3651 (37%)	1131 (44%)	702 (50%)	454 (37%)	< 0.001
LHMC-B	4623 (54%)	2332 (59%)	1366 (59%)	1021 (58%)	0.31
<i>p-value (BMC vs. LHMC-B)</i>	< 0.001	< 0.001	< 0.001	< 0.001	
Body mass index, mean (range)	29.8 (9.8 - 80)	28.5 (9.8 - 80)	27.9 (9.8 - 70.5)	29.3 (12.9 - 80)	< 0.001
BMC	30.3 (9.8 - 80)	28.3 (9.8 - 80)	26.8 (9.8 - 68.5)	29.9 (13.3 - 80)	< 0.001
LHMC-B	29.2 (11.3 - 70.5)	28.7 (11.3 - 70.5)	28.5 (11.3 - 70.5)	28.8 (12.9 - 64.9)	0.13
<i>p-value (BMC vs. LHMC-B)</i>	< 0.001	0.0305	< 0.001	< 0.001	
Medicaid or uninsured, No. (%)	6343 (35%)	1632 (25%)	877 (24%)	778 (26%)	0.01

BMC	5758 (59%)	1432 (56%)	763 (55%)	688 (56%)	0.79
LHMC-B	585 (7%)	200 (5%)	114 (5%)	90 (5%)	0.54
<i>p-value (BMC vs. LHMC-B)</i>	< 0.001	< 0.001	< 0.001	< 0.001	
Median income by ZIP code (in 1000), mean (range), \$	\$48 (\$19 - \$175)	\$51 (\$19 - \$139)	\$52 (\$22 - \$139)	\$50 (\$19 - \$139)	< 0.001
BMC	\$41 (\$22 - \$139)	\$40 (\$23 - \$139)	\$41 (\$23 - \$121)	\$40 (\$23 - \$139)	0.47
LHMC-B	\$57 (\$19 - \$175)	\$58 (\$19 - \$139)	\$59 (\$22 - \$139)	\$57 (\$19 - \$139)	0.006
<i>p-value (BMC vs. LHMC-B)</i>	< 0.001	< 0.001	< 0.001	< 0.001	
Distance to hospital, mean (range), km	60 (0.6 - 5,044)	61 (0.6 - 4,985)	59 (0.6 - 4,976)	63 (1.1 - 4,985)	0.49
BMC	43 (1.1 - 4,977)	40 (1.1 - 4,770)	41 (1.1 - 4,674)	39 (1.1 - 4,770)	0.77
LHMC-B	82 (0.6 - 5,044)	75 (0.6 - 4,985)	70 (0.6 - 4,976)	81 (2.1 - 4,985)	0.23
<i>p-value (BMC vs. LHMC-B)</i>	< 0.001	< 0.001	< 0.001	< 0.001	
Procedures with regional/epidural anesthesia, No. (%)	3117 (15%)	625 (8%)	212 (5%)	413 (13%)	< 0.001
BMC	2219 (20%)	424 (14%)	118 (7%)	306 (23%)	< 0.001
LHMC-B	898 (9%)	201 (4%)	94 (3%)	107 (6%)	< 0.001
<i>p-value (BMC vs. LHMC-B)</i>	< 0.001	< 0.001	< 0.001	< 0.001	
Length of procedure, mean (range), min	143 (0 - 1,437)	129 (1 - 1,437)	95 (1 - 1,437)	175 (1 - 778)	< 0.001
BMC	111 (1 - 788)	92 (1 - 778)	71 (1 - 668)	118 (1 - 778)	< 0.001
LHMC-B	179 (0 - 1,437)	152 (1 - 1,437)	108 (1 - 1,437)	214 (9 - 776)	< 0.001
<i>p-value (BMC vs. LHMC-B)</i>	< 0.001	< 0.001	< 0.001	< 0.001	
Length of stay, mean (range), d	5 (1 - 302.4)	5.7 (1 - 302.4)	6.1 (1 - 302.4)	5.2 (1 - 200)	< 0.001
BMC	5.3 (1 - 302.4)	6.8 (1 - 302.4)	7.9 (1 - 302.4)	5.6 (1 - 200)	< 0.001
LHMC-B	4.6 (1.1 - 70.8)	5 (1.1 - 70.8)	5 (1.1 - 70.8)	5 (1.1 - 50.9)	0.61
<i>p-value (BMC vs. LHMC-B)</i>	< 0.001	< 0.001	< 0.001	0.01	
Length of stay after surgery, mean (range), d	4.4 (1 - 294.4)	4.9 (1 - 294.4)	5 (1 - 294.4)	4.8 (1 - 200)	0.38
BMC	4.9 (1 - 294.4)	6.6 (1 - 294.4)	7.4 (1 - 294.4)	5.6 (1 - 200)	< 0.001
LHMC-B	3.8 (1 - 48)	3.9 (1 - 48)	3.6 (1 - 48)	4.3 (1 - 42.1)	< 0.001
<i>p-value (BMC vs. LHMC-B)</i>	< 0.001	< 0.001	< 0.001	< 0.001	
Opioid Consumption and Prescription					
Discharges home with opioids	14,652	3,051	0	3,051	< 0.001
BMC	8,119	1,244	0	1,244	< 0.001
LHMC-B	6,533	1,807	0	1,807	< 0.001
<i>p-value (BMC vs. LHMC-B)</i>	< 0.001	0.0018	NA	NA	

24-hours pre-discharge opioid utilization (MME)	33 (0 - 1,365)	0 (0 - 0)	0 (0 - 0)	0 (0 - 0)	NA
BMC	40 (0 - 1,365)	0 (0 - 0)	0 (0 - 0)	0 (0 - 0)	NA
LHMC-B	26 (0 - 600)	0 (0 - 0)	0 (0 - 0)	0 (0 - 0)	NA
<i>p</i> -value (BMC vs. LHMC-B)	< 0.001	NA	NA	NA	
Opioid discharge quantity (MME)	343 (0 - 37,500)	150 (0 - 13,500)	0 (0 - 0)	343 (34 - 13,500)	< 0.001
BMC	411 (0 - 37,500)	190 (0 - 13,500)	0 (0 - 0)	413 (38 - 13,500)	< 0.001
LHMC-B	268 (0 - 10,800)	124 (0 - 3,120)	0 (0 - 0)	294 (34 - 3,120)	< 0.001
<i>p</i> -value (BMC vs. LHMC-B)	< 0.001	< 0.001	NA	< 0.001	
Total opioids prescribed (MME)	6,881,492	1,045,616	0	1,045,616	< 0.001
BMC	4,343,870	514,132	0	514,132	< 0.001
LHMC-B	2,537,621	531,484	0	531,484	< 0.001
<i>p</i> -value (BMC vs. LHMC-B)	< 0.001	< 0.001	NA	< 0.001	
Last opioid from surgery (post-op days)	3.4 (-20 - 122)	2.4 (-20 - 122)	2.2 (-20 - 122)	2.6 (-8.5 - 106)	0.01
BMC	4 (-20 - 122)	4.1 (-20 - 122)	5 (-20 - 122)	3.3 (-8.5 - 106)	< 0.001
LHMC-B	2.6 (-10 - 45)	1.5 (-10 - 32)	1 (-10 - 31)	2.1 (-3.4 - 32)	< 0.001
<i>p</i> -value (BMC vs. LHMC-B)	< 0.001	< 0.001	< 0.001	< 0.001	
Last opioid from discharge (days)	-1 (-172 - 0)	-2.7 (-172 - 0)	-3.2 (-172 - 0)	-2.3 (-123 - 0)	< 0.001
BMC	-0.8 (-172 - 0)	-3.3 (-172 - 0)	-4.4 (-172 - 0)	-2.4 (-123 - 0)	< 0.001
LHMC-B	-1.2 (-33 - 0)	-2.4 (-33 - 0)	-2.6 (-33 - 0)	-2.2 (-19 - 0)	< 0.001
<i>p</i> -value (BMC vs. LHMC-B)	< 0.001	< 0.001	< 0.001	0.14	

Data are presented in the form of “mean (min – max)” unless otherwise specified.