



Correction to: Prior bariatric surgery lowers complication rates following spine surgery in obese patients

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The AHRQ (Agency for Healthcare Research and Quality) has requested the correction of the result Tables 1, 2 and 3 of this study: All stated numbers below 10 shall be modified to read “<10” instead.

The correct tables are shown below:

The online version of the original article can be found at <https://doi.org/10.1007/s00701-018-3722-6>

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Table 1 Complications for all spine surgeries compared between morbidly obese patients with and without a history of bariatric surgery

Complications	Bariatric surgery history (<i>N</i> = 1939)		Morbidly obese (<i>N</i> = 1625)		<i>P</i> value
	<i>N</i>	Percentage	<i>N</i>	Percentage	
Bowel issues	193	9.95%	207	12.74%	0.009*
Bladder issues	34	1.75%	37	2.28%	0.265
Neurologic	35	1.81%	32	1.97%	0.719
Muscle weakness	≤ 10	0.15%	≤ 10	0.55%	0.041*
Dysphagia	43	2.22%	10	0.62%	<0.001*
Nervous	47	2.42%	74	4.55%	<0.001*
Cardiac	36	1.86%	28	1.72%	0.765
PVD	≤ 10	0.05%	≤ 10	0.12%	0.463
Respiratory	48	2.48%	35	2.15%	0.526
Digestive	66	3.40%	22	1.35%	<0.001*
Urinary	28	1.44%	26	1.60%	0.704
Device	72	3.71%	318	19.57%	<0.001*
Shock	11	0.57%	≤ 10	0.06%	0.009*
Hematoma	40	2.06%	62	3.82%	0.001*
Puncture	33	1.70%	54	3.32%	0.001*
Infection	73	3.76%	92	5.66%	0.007*
Anemia	251	12.94%	302	18.58%	<0.001*
ARDS	84	4.33%	38	2.34%	0.001*
PE	≤ 10	0.15%	16	0.98%	<0.001*
DVT	27	1.39%	45	2.77%	0.003*
Shock - trauma	16	0.83%	≤ 10	0.06%	<0.001*
Infection - trauma	73	3.76%	92	5.66%	0.007*
Any complication	752	38.78%	901	55.45%	<0.001*

PVD peripheral vascular disease, *ARDS* acute respiratory distress syndrome, *PE* pulmonary embolism, *DVT* deep vein thrombosis

Table 2 Thoracolumbar spine surgery patients demographics, hospital characteristics, and complications

Thoracolumbar surgery patients	Bariatric surgery (<i>N</i> = 740)		Morbidly obese (<i>N</i> = 740)		<i>P</i> value
Age	50.03 ± 14.51		49.9 ± 12.09		0.851
Gender	493 (67%)		486 (65.7%)		0.700
Invasiveness	6.89 ± 2.49		6.96 ± 2.39		0.581
Hospital LOS	5.95 ± 6.56		5.14 ± 4.75		0.007*
Complications	<i>N</i>	Percentage	<i>N</i>	Percentage	<i>P</i> value
Bowel issues	91	12.30%	89	12.03%	0.87
Bladder issues	12	1.62%	19	2.57%	0.20
Neurologic	≤ 10	0.95%	12	1.62%	0.25
Muscle weakness	≤ 10	0.27%	≤ 10	0.27%	1.00
Nervous	17	2.30%	20	2.70%	0.62
Cardiac	17	2.30%	11	1.49%	0.25
PVD	≤ 10	0.14%	≤ 10	0.00%	0.32
Respiratory	19	2.57%	19	2.57%	1.00
Digestive	37	5.00%	11	1.49%	<0.001*
Urinary	14	1.89%	11	1.49%	0.55
Device	45	6.08%	172	23.24%	<0.001*
Shock	≤ 10	0.54%	≤ 10	0.00%	0.045*
Hematoma	11	1.49%	33	4.46%	<0.001*
Puncture	14	1.89%	24	3.24%	0.10
Infection	33	4.46%	40	5.41%	0.40
Anemia	150	20.27%	135	18.24%	0.32
ARDS	31	4.19%	15	2.03%	0.02*
PE	≤ 10	0.41%	≤ 10	0.68%	0.48
DVT	≤ 10	1.22%	20	2.70%	0.039*
Shock - trauma	≤ 10	0.81%	≤ 10	0.00%	0.014*
Infection - trauma	33	4.46%	40	5.41%	0.40
Any complication	339	45.8%	430	58.1%	<0.001*

Table 3 Cervical spine surgery patients demographics, hospital characteristics, and complications

Cervical surgery patients	Bariatric (<i>N</i> = 233)		Morbidly obese (<i>N</i> = 233)		<i>P</i> value
Age	52.73 ± 12.43		52.41 ± 10.83		0.767
Gender (% female)	123 (52.8%)		127 (54.5%)		0.71
Invasiveness	6.89 ± 2.36		6.85 ± 2.37		0.855
Hospital LOS	6.64 ± 8.07		4.24 ± 3.97		<0.001*
Bowel issues	17	7.30%	32	13.73%	0.02*
Bladder issues	≤ 10	2.15%	≤ 10	3.43%	0.39
Neurologic	≤ 10	2.15%	11	4.72%	0.13
Muscle weakness	≤ 10	0.00%	≤ 10	0.86%	0.16
Dysphagia	11	4.72%	≤ 10	1.72%	0.07
Nervous	≤ 10	0.86%	15	6.44%	<0.001*
Cardiac	≤ 10	1.29%	≤ 10	2.58%	0.31
PVD	≤ 10	0.00%	≤ 10	0.00%	–
Respiratory	≤ 10	3.00%	≤ 10	2.15%	0.56
Digestive	≤ 10	1.72%	≤ 10	0.00%	0.04*
Urinary	≤ 10	1.29%	≤ 10	0.43%	0.32
Device	≤ 10	3.00%	42	18.03%	<0.001*
Shock	≤ 10	0.43%	≤ 10	0.00%	0.32
Hematoma	≤ 10	2.58%	≤ 10	1.72%	0.52
Puncture	≤ 10	1.29%	≤ 10	2.58%	0.32
Infection	≤ 10	2.58%	≤ 10	1.72%	0.52
Anemia	22	9.44%	14	6.01%	0.17
ARDS	15	6.44%	11	4.72%	0.42
PE	≤ 10	0.00%	≤ 10	0.86%	0.16
DVT	≤ 10	1.29%	≤ 10	1.29%	1.00
Shock - trauma	≤ 10	1.29%	≤ 10	0.00%	0.08
Infection - trauma	≤ 10	2.58%	≤ 10	1.72%	0.52
Any complication	79	33.9%	187	80.3%	<0.001*