

## Supplementary Online Content

Jones CE, Graham LA, Morris MS, et al. Association between preoperative hemoglobin A<sub>1c</sub>, postoperative hyperglycemia, and readmissions following gastrointestinal surgery. *JAMA Surg*. Published online July 26, 2017. doi:10.1001/jamasurg.2017.2350

**eTable.** Characteristics of Patients Missing Preoperative HbA<sub>1c</sub> or Preoperative Glucose

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

**Supplemental Table: Characteristics of Patients Missing Preoperative HbA1c or Preoperative Glucose**

	Preoperative HbA1c					Preoperative Glucose				
	Not Missing		Missing		p-value	Not Missing		Missing		p-value
	N / Mean	(%) / (SD)	N / Mean	(%) / (SD)		N / Mean	(%) / (SD)	N / Mean	(%) / (SD)	
<b>Overall</b>	<b>38,188</b>	<b>(42.6)</b>	<b>51,440</b>	<b>(57.4)</b>		<b>81,025</b>	<b>(90.4)</b>	<b>8,603</b>	<b>(9.6)</b>	
<b>Patient Factors</b>										
Age, Mean (SD)	63.7	(10.7)	61.8	(13.1)	<.001	62.7	(12.2)	61.4	(12.0)	<.001
Gender, n (%)					<.001					0.16
Female	2,119	(5.6)	3,497	(6.8)		5,047	(6.2)	569	(6.6)	
Male	36,069	(94.5)	47,943	(93.2)		75,978	(93.8)	8,034	(93.4)	
BMI, Mean (SD)	29.9	(7.2)	27.4	(7.6)	<.001	28.5	(7.6)	28.6	(7.1)	0.15
Race, n (%)					0.77					<.001
White	26,463	(81.0)	35,383	(81.2)		55,645	(80.8)	6,201	(83.7)	
Black	5,823	(17.8)	7,679	(17.6)		12,390	(18.0)	1,112	(15.0)	
Other	403	(1.2)	541	(1.2)		850	(1.2)	94	(1.3)	
ASA Classification, n (%)					<.001					<.001
1-2	4,976	(13.0)	12,472	(24.3)		15,399	(19.0)	2,049	(23.8)	
3	27,987	(73.3)	33,437	(65.0)		55,586	(68.6)	5,838	(67.9)	
4-5	5,219	(13.7)	5,521	(10.7)		10,026	(12.4)	714	(8.3)	
Diabetes Mellitus, n (%)					<.001					<.001
Non-Diabetic	20,342	(53.3)	47,829	(93.0)		60,914	(75.2)	7,257	(84.4)	
NIDDM	9,901	(25.9)	2,322	(4.5)		11,384	(14.1)	839	(9.8)	
IDDM	7,945	(20.8)	1,289	(2.5)		8,727	(10.8)	507	(5.9)	
Postoperative LOS, days, (Mean, SD)	6.5	(5.0)	6.4	(5.0)	0.01	6.5	(5.1)	6.2	(4.8)	<.001
Glucose (Mean, SD)										
Closest preoperative	132.1	(53.0)	110	(32.3)	<.001	119.6	(43.9)			
Closest postoperative	157.1	(54.2)	133.2	(42.3)	<.001	144.2	(49.7)	139.3	(44.3)	<.001
Highest postoperative	178.2	(68.5)	142.5	(52.3)	<.001	159.1	(63.3)	149.2	(51.9)	<.001
<b>Outcomes</b>										
Any postoperative complication	30,938	(81.0)	42,328	(82.3)	<.001	66,099	(81.6)	7,167	(83.3)	<.001
All Infectious Complications										
Wound Infection	2,196	(5.8)	2,854	(5.6)	0.19	4,541	(5.6)	509	(5.9)	0.23
Pneumonia	504	(1.3)	739	(1.4)	0.14	1,140	(1.4)	103	(1.2)	0.11
Urinary Tract Infection	793	(2.1)	1,009	(2.0)	0.22	1,639	(2.0)	163	(1.9)	0.42
Sepsis	772	(2.0)	968	(1.9)	0.13	1,563	(1.9)	177	(2.1)	0.41
Post-discharge										

outcomes										
Readmission within 14 Days	3,891	(10.2)	4,817	(9.4)	<.001	7,949	(9.8)	759	(8.8)	0.003
Readmission within 30 Days	5,448	(14.3)	6,688	(13.0)	<.001	11,118	(13.7)	1,018	(11.8)	<.001