

## Supplementary Online Content

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**eTable 1.** Trends in the Use of Open Surgery for Specific Procedures, 2012-2018

**eTable 2.** Trends in the Use of Laparoscopic Surgery for Specific Procedures, 2012-2018

**eFigure.** Proportion of Hospitals and Surgeons Performing Any Robotic General Surgery in Michigan, 2012-2018

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

**eTable 1.** Trends in the Use of Open Surgery for Specific Procedures, 2012-2018

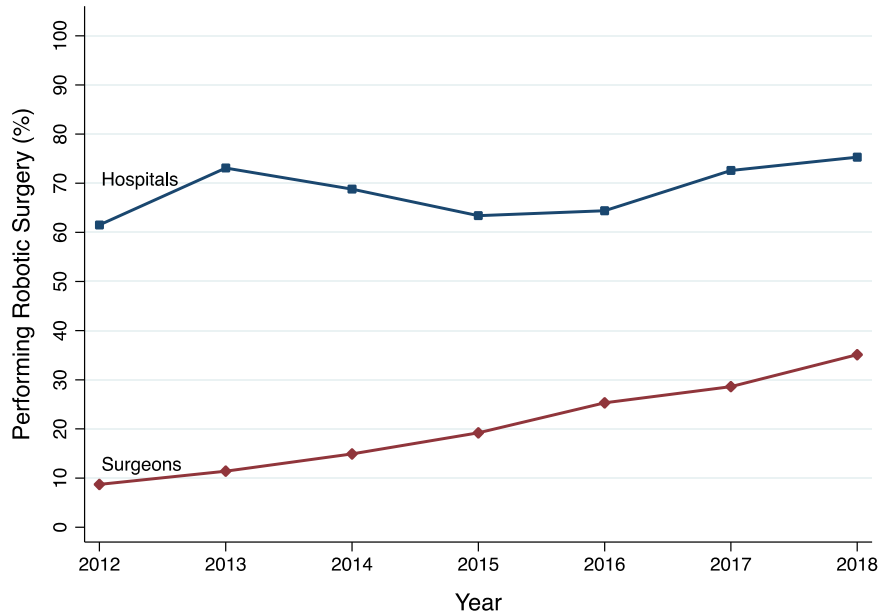
Procedure	Proportional Use, %		Fold Difference	Annual Trend, % per Year (95% CI)
	Year 2012	Year 2018		
<b>All</b>	42.4	32.4	0.8	-1.5 (-1.8 to -1.2)
<b>Inguinal hernia repair</b>	98.2	53.1	0.5	-8.1 (-8.4 to -7.7)
<b>Ventral hernia repair</b>	83.4	54.1	0.6	-3.8 (-4.1 to -3.6)
<b>Colectomy</b>	77.0	45.7	0.6	-4.1 (-4.4 to -3.8)
<b>Reflux surgery</b>	40.2	5.2	0.1	-3.6 (-4.0 to -3.3)
<b>Proctectomy</b>	87.9	63.8	0.7	-3.3 (-4.4 to -2.3)
<b>Cholecystectomy</b>	2.5	1.3	0.5	-3.6 (-3.7 to -3.5)
<b>Complex cancer resections</b>	86.1	72.7	0.8	-1.8 (-2.4 to -1.1)

**eTable 2.** Trends in the Use of Laparoscopic Surgery for Specific Procedures, 2012-2018

Procedure	Proportional Use, %		Fold Difference	Annual Trend, % per Year (95% CI)
	Year 2012	Year 2018		
<b>All</b>	55.8	52.6	0.9	-0.5 (-0.7 to -0.3)
<b>Inguinal hernia repair</b>	0.8	18.0	22.5	2.6 (2.3 to 2.9)
<b>Ventral hernia repair</b>	16.6	23.5	1.4	0.2 (-0.1 to 0.4)
<b>Colectomy</b>	20.5	38.0	1.9	1.9 (1.6 to 2.2)
<b>Reflux surgery</b>	54.4	68.8	1.3	0.9 (0.3 to 1.4)
<b>Proctectomy</b>	9.0	9.5	1.1	-0.6 (-1.4 to 0.2)
<b>Cholecystectomy</b>	91.2	92.1	1.0	3.2 (3.0 to 3.4)
<b>Complex cancer resections</b>	11.8	23.3	2.0	1.4 (0.8 to 2.0)

**eFigure.** Proportion of Hospitals and Surgeons Performing Any Robotic General Surgery in Michigan, 2012-2018

**Appendix Figure 1**



<u>No. of Hospitals</u>	52	52	64	71	73	73	73
<u>No. of Surgeons</u>	759	841	871	902	974	972	828