

# Appendix

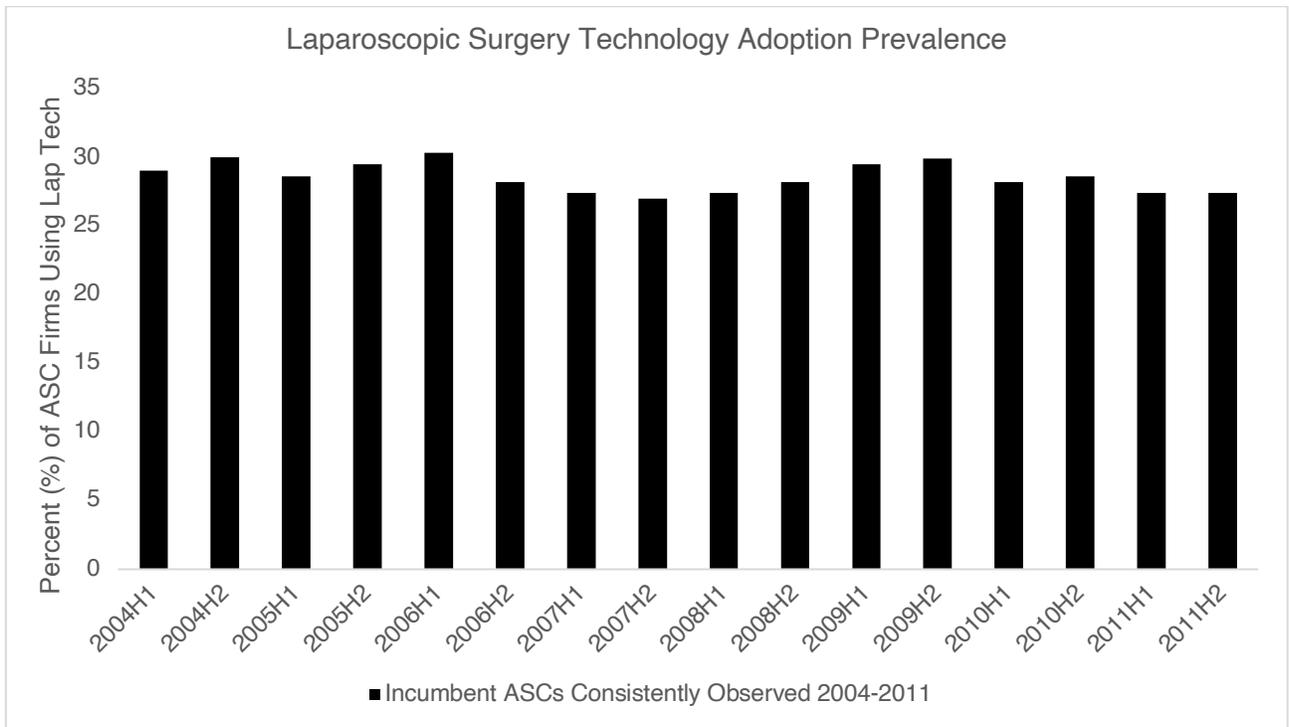
Appendix Table A1: Procedures that Experienced a Large Shock in ASC Facility

<u>Device-Intensive Procedures</u>		<u>Laparoscopic Procedures</u>	
<b>CPT</b>	<b>Description</b>	<b>CPT</b>	<b>Description</b>
33206	Insertion of heart pacemaker	38570	Laparoscopy, lymph node biop
33207	Insertion of heart pacemaker	38571	Laparoscopy, lymphadenectomy
33208	Insertion of heart pacemaker	38572	Laparoscopy, lymphadenectomy
33210	Insertion of heart electrode	43653	Laparoscopy, gastrostomy
33211	Insertion of heart electrode	47560	Laparoscopy w/cholangio
33212	Insertion of pulse generator	47561	Laparo w/cholangio/biopsy
33213	Insertion of pulse generator	47563	Laparo cholecystectomy/graph
33214	Upgrade of pacemaker system	47564	Laparo cholecystectomy/explr
33216	Insert lead pace-defib, one	49320	Diag laparo separate proc
33217	Insert lead pace-defib, dual	49321	Laparoscopy, biopsy
33224	Insert pacing lead & connect	49322	Laparoscopy, aspiration
33225	L ventric pacing lead add-on	49324	Laporo insert tunnel ip cath
33240	Insert pulse generator	49325	Laporo revision perm ip cath
33249	Eltrd/insert pace-defib	49326	Laporo w/omentopexy add-on
33282	Implant pat-active ht record	49327	Laporo ins device for rt
36566	Insert tunneled cv cath	49650	Laparo hernia repair initial
53440	Male sling procedure	49651	Laparo hernia repair recur
53444	Insert tandem cuff	49652	Lap vent/abd hernia repair
53445	Insert uro/ves nck sphincter	49653	Lap vent/abd hern proc comp
53447	Remove/replace ur sphincter	49654	Laparo incisional hernia repair
54400	Insert semi-rigid prosthesis	49655	Laparo incisional hern repair comp
54401	Insert self-contd prosthesis	49656	Laparo incisional hernia repair recur
54405	Insert multi-comp penis pros	49657	Laparo incisional hern recur comp
54410	Remove/replace penis prosth	50947	Laparo new ureter/bladder
54416	Remv/repl penis contain pros	50948	Laparo new ureter/bladder
55873	Cryoablate prostate	51992	Laparo sling operation
61885	Insrt/redo neurostim 1 array	54690	Laparoscopy, orchiectomy
61886	Implant neurostim arrays	54692	Laparoscopy, orchiopexy
62361	Implant spine infusion pump	55550	Laparo ligate spermatic vein
62362	Implant spine infusion pump	58545	Laparoscopic myomectomy
63655	Implant neuroelectrodes	58546	Laparo-myomectomy, complex
63685	Insrt/redo spine n generator	58550	Laparo-asst vag hysterectomy
64555	Implant neuroelectrodes	58552	Laparo-vag hyst incl t/o
64560	Implant neuroelectrodes	58660	Laparoscopy, lysis
64561	Implant neuroelectrodes	58661	Laparoscopy, remove adnexa
64565	Implant neuroelectrodes	58662	Laparoscopy, excise lesions
64573	Implant neuroelectrodes	58670	Laparoscopy, tubal cautery
64575	Implant neuroelectrodes	58671	Laparoscopy, tubal block
64577	Implant neuroelectrodes	58672	Laparoscopy, fimbrioplasty

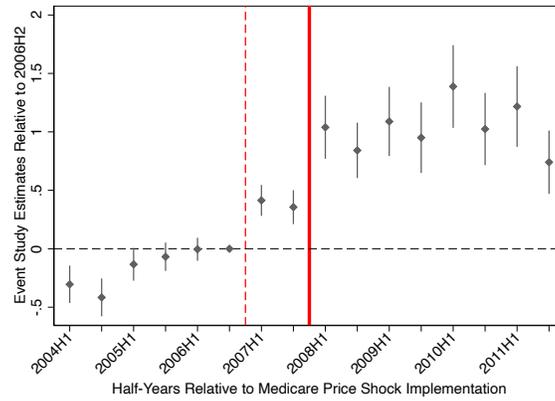
64580	Implant neuroelectrodes	58673	Laparoscopy, salpingostomy
64581	Implant neuroelectrodes		
64590	Insrt/redo pn/gastr stimul		
64650	Chemodenerv eccrine glands		
69930	Implant cochlear device		

---

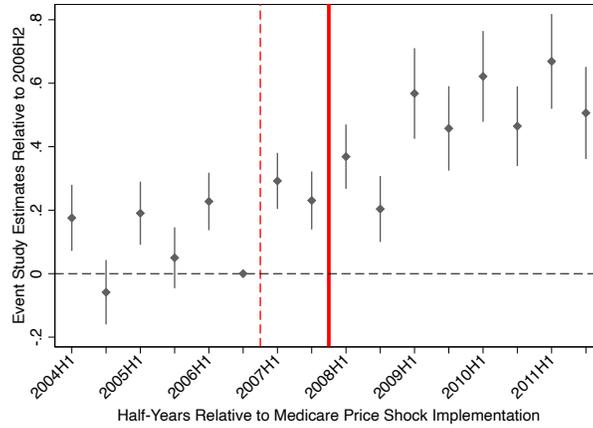
Appendix Figure A1: Prevalence of Any Laparoscopic Cases for Any Payer by Incumbent ASCs



Appendix Figure A2: Treatment Group Physicians Policy Targeted Case Volumes in HOPDs Over Time



(a) Device Intensive (DI) Medicare Procedures in HOPDs



(b) Laparoscopic Medicare Procedures in HOPDs

Appendix Table A2: Diff-in-Diff Estimates for Medicare Pricing Effects at the Physician Level When Excluding Pre-Policy and Post-Policy ASC Owners from the Treatment Group

PANEL A				
	Device Intensive (DI) Medicare Procedures in ASCs	Laparoscopic Medicare Procedures in ASCs		
	(1)	(2)		
Treated Physician x Post	0.110*** (0.027)	0.073*** (0.019)		
Physician fixed effects	Yes	Yes		
Time fixed effects	Yes	Yes		
Unique Physician	6,219	6,219		
Observations (N)	99,504	99,504		

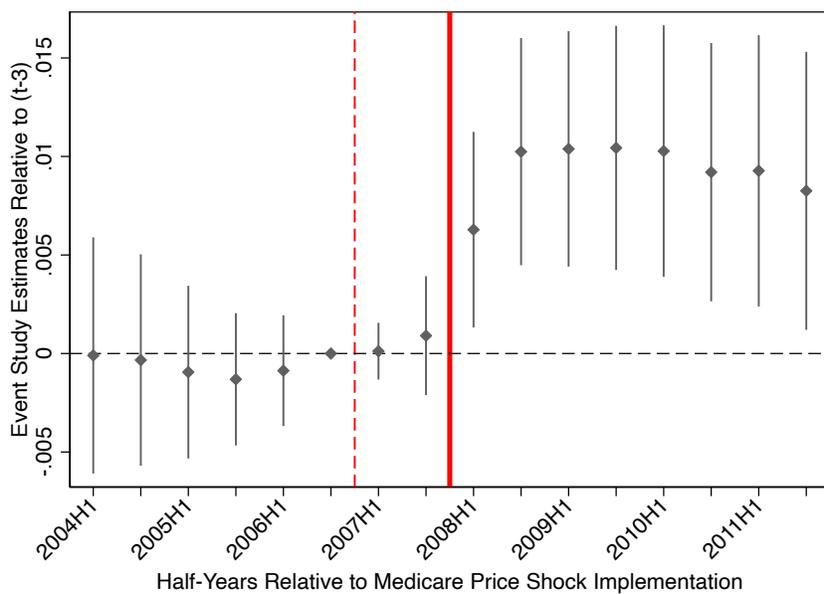
PANEL B				
	Non-DI Non-Lap Procedure Volume			
	Total Procedure Volume (in logs)	Medicare (in logs)	Commercial (in logs)	All Others (in logs)
	(1)	(2)	(3)	(4)
Treated Physician x Post	-0.030 (0.016)	-0.028 (0.016)	-0.104*** (0.016)	-0.119*** (0.021)
Physician fixed effects	Yes	Yes	Yes	Yes
Time fixed effects	Yes	Yes	Yes	Yes
Unique Physician	6,219	6,219	6,219	6,219
Observations (N)	99,504	99,504	99,504	99,504

Notes: All included physicians are consistently observed from the first half of 2004 through the second half of 2011. Treatment group physicians identified as having an ASC ownership stake at the time of policy implementation or during the post-policy period (2008-2011) are excluded from the analyses. Time fixed effects capture half-years.

Standard errors clustered at the individual physician level.

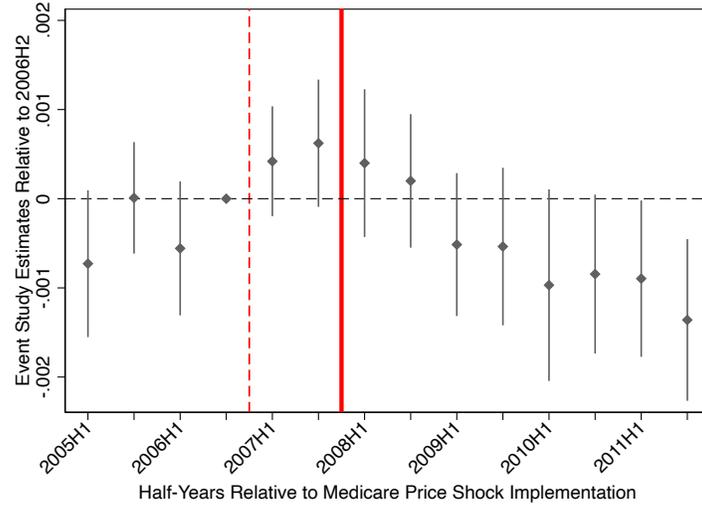
\*\*\* P value at 0.01 \*\* P value at 0.05

Appendix Figure A3: Effects on Physician ASC Equity Stakes When Restricting to Physicians Observed for at least 10 Quarter-Years

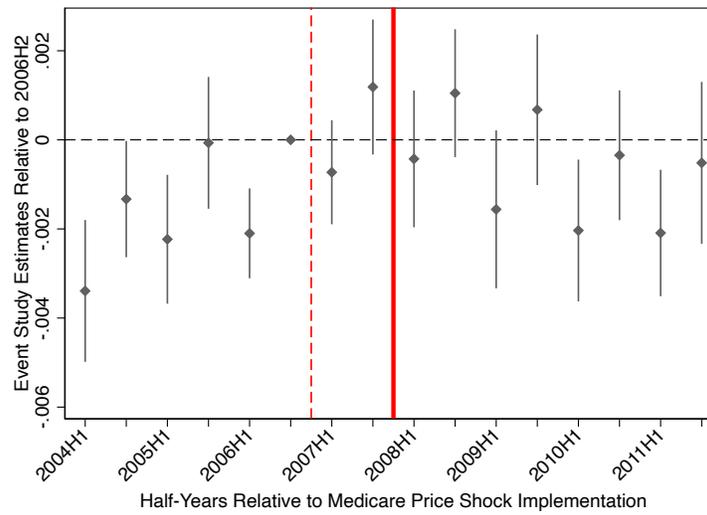


Notes: Analytic samples are identical to those in Table 5, and the specification is that of Equation (2). Solid vertical line indicates the beginning of the fee reforms; dashed line indicates policy announcement period.

Appendix Figure A4: Event Study Results for Device Complication Rates among Medicare Beneficiaries by Place of Service



(a) Emergency Department Visits



(b) Inpatient Stays