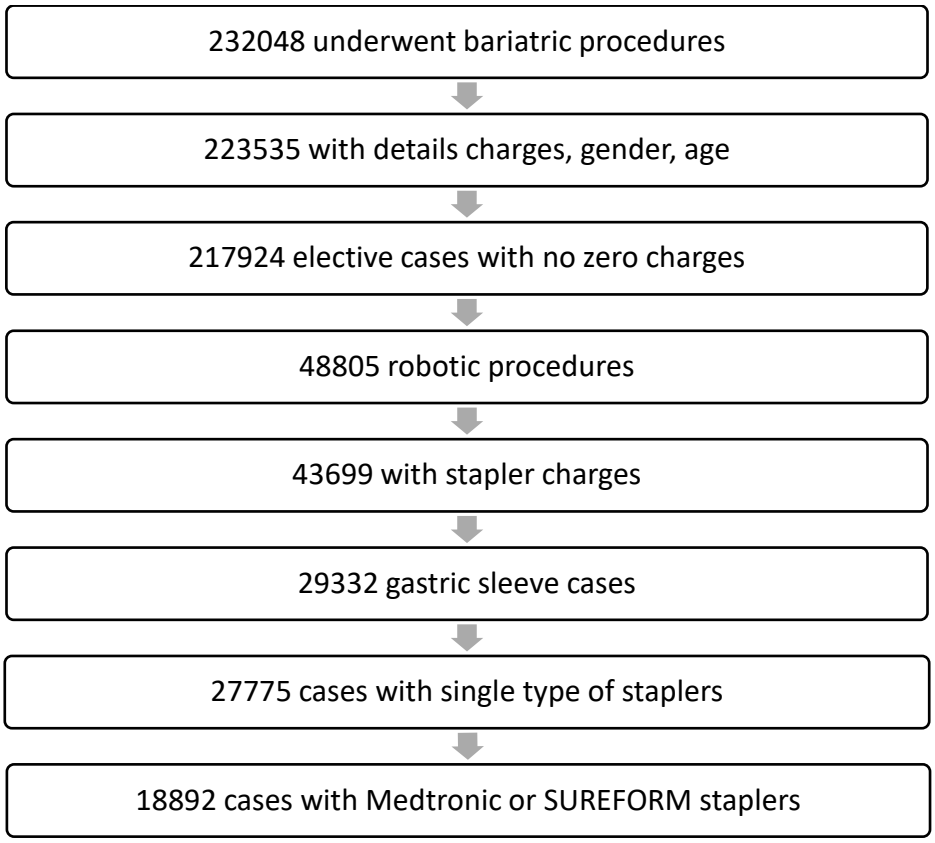
Supplemental Materials

Sup Figure 1: Cohort selection:



Sup Table 1: Patients and provider baseline characteristics:

Gastric Sleeve							
N = 18892	**Study Cohort**		**Medtronic BS**		**Sureform RS**		**P-value**
Description	**No.**	**%**	**No.**	**%**	**No.**	**%**	
Total			3740		15152	**64.08**	
Types of stapler							
Sureform	15152	80.20					
Medtronic	3740	19.80					
Age group							<0.001
<40	7876	41.69	1393	37.25	6483	42.79	
40-54	7295	38.61	1466	39.20	5829	38.47	
55-64	2625	13.89	559	14.95	2066	13.64	
>65	1096	5.80	322	8.61	774	5.11	
Gender							0.892
Female	15290	80.93	3024	80.86	12266	80.95	
Male	3602	19.07	716	19.14	2886	19.05	
Race and Ethnicity							<0.001

Non-Hispanic White	9280	49.12	2082	55.67	7198	47.51	
Non-Hispanic Black	3949	20.90	881	23.56	3068	20.25	
Hispanic	3041	16.10	301	8.05	2740	18.08	
Others/Unknown	2622	13.88	476	12.73	2146	14.16	
Payer							<0.001
Medicare	2455	12.99	634	16.95	1821	12.02	
Medicaid	4874	25.80	704	18.82	4170	27.52	
Private/Commercial	10182	53.90	2062	55.13	8120	53.59	
Other	1381	7.31	340	9.09	1041	6.87	
Obese_diag(E66.01)							0.158
Yes	18503	97.94	3652	97.65	14851	98.01	
No	389	2.06	88	2.35	301	1.99	
Comorbidities							<0.001
0-2	17679	93.58	3447	92.17	14232	93.93	
3+	1213	6.42	293	7.83	920	6.07	
APR severity							<0.001
Minor	14860	78.66	2444	65.35	12416	81.94	
Others	4032	21.34	1296	34.65	2736	18.06	
Provider region							<0.001
Northeast	6504	34.43	635	16.98	5869	38.73	
Midwest	2575	13.63	489	13.07	2086	13.77	
South	7651	40.50	1795	47.99	5856	38.65	
West	2162	11.44	821	21.95	1341	8.85	
Provider location							<0.001
Rural	613	3.24	81	2.17	532	3.51	
Urban	18279	96.76	3659	97.83	14620	96.49	
Provider bed size							<0.001
<300 beds	8241	43.62	1349	36.07	6892	45.49	
300-499 beds	4186	22.16	301	8.05	3885	25.64	
>= 500 beds	6465	34.22	2090	55.88	4375	28.87	
Provider teaching status							<0.001
No	8179	43.29	2112	56.47	6067	40.04	
Yes	10713	56.71	1628	43.53	9085	59.96	
Provider bariatric procedure volume							<0.001
Low (<=Q3)	6369	33.71	760	20.32	5609	37.02	
High (>Q3)	12523	66.29	2980	79.68	9543	62.98	
Surgeon bariatric procedure volume							0.001
Low (<=Q3)	3783	20.02	649	17.35	3134	20.68	
High (>Q3)	15109	79.98	3091	82.65	12018	79.32	
Year of the procedure							<0.001
2018	1227	6.49	1087	29.06	140	0.92	
2019	2586	13.69	961	25.7	1625	10.72	

2020	2726	14.43	495	13.24	2231	14.72	
2021	5348	28.31	539	14.41	4809	31.74	
2022	7005	37.08	658	17.59	6347	41.89	

Sup table 2: Study codes used in the study.

Variable defined	Codes	
sleeve gastrectomy	0DB64Z3	
obese	E66.01	ICD 10 DX
Blood transfusion	30233H0, 30233N0, 30243H0, 30243N0, 30233H1, 30243H1, 30233N1, 30233P1, 30243N1, 30243P1, 30230H0, 30230H1, 30230J0, 30230J1, 30230K0, 30230K1, 30230L0, 30230L1, 30230M0, 30230M1, 30230N0, 30230N1, 30230P0, 30230P1, 30230Q0, 30230Q1, 30230R0, 30230R1, 30230S0, 30230T0, 30230V0, 30230W0, 30233J0, 30233J1, 30233K0, 30233K1, 30233L0, 30233L1, 30233M0, 30233M1, 30233P0, 30233Q0, 30233Q1, 30233R0, 30233R1, 30233S0, 30233T0, 30233V0, 30233W0, 30240H0, 30240H1, 30240J0, 30240J1, 30240K0, 30240K1, 30240L0, 30240L1, 30240M0, 30240M1, 30240N0, 30240N1, 30240P0, 30240P1, 30240Q0, 30240Q1, 30240R0, 30240R1, 30240S0, 30240T0, 30240V0, 30240W0, 30243J0, 30243J1, 30243K0, 30243K1, 30243L0, 30243L1, 30243M0, 30243M1, 30243P0, 30243Q0, 30243Q1, 30243R0, 30243R1, 30243S0, 30243T0, 30243V0, 30243W0, 30250H0, 30250H1, 30250J0, 30250J1, 30250K0, 30250K1, 30250L0, 30250L1, 30250M0, 30250M1, 30250N0, 30250N1, 30250P0, 30250P1, 30250Q0, 30250Q1, 30250R0, 30250R1, 30250S0, 30250T0, 30250V0, 30250W0, 30253H0, 30253H1, 30253J0, 30253J1, 30253K0, 30253K1, 30253L0, 30253L1, 30253M0, 30253M1, 30253N0, 30253N1, 30253P0, 30253P1, 30253Q0, 30253Q1, 30253R0, 30253R1, 30253S0, 30253T0, 30253V0, 30253W0, 30260H0, 30260H1, 30260J0, 30260J1,	ICD 10 PCS

	30260K0, 30260K1, 30260L0, 30260L1, 30260M0, 30260M1, 30260N0, 30260N1, 30260P0, 30260P1, 30260Q0, 30260Q1, 30260R0, 30260R1, 30260S0, 30260T0, 30260V0, 30260W0, 30263H0, 30263H1, 30263J0, 30263J1, 30263K0, 30263K1, 30263L0, 30263L1, 30263M0, 30263M1, 30263N0, 30263N1, 30263P0, 30263P1, 30263Q0, 30263Q1, 30263R0, 30263R1, 30263S0, 30263T0, 30263V0, 30263W0, 3E030GC, 3E033GC, 3E040GC, 3E043GC, 3E050GC, 3E053GC, 3E060GC, 3E063GC,	
	36430, 86890, 86891, 86985, P9010, P9011, P9012, P9016, P9017, P9019, P9020, P9021, P9022, P9023, P9032, P9033, P9034, P9035, P9036, P9037, P9038, P9039, P9040, P9043, P9044, P9048, P9050, P9051, P9052, P9053, P9054, P9055, P9056, P9057, P9058, P9059, P9060, P9070, P9071, P9072,	CPT
Bleeding	D62 , R58, K92.2, K92.1, K91.840, K91.841, K91.870, K91.871, N99.62, N99.820, N99.821,	ICD 10 DX
Anastomotic leak	K63.2, K65.1, K91.3, K91.89, K91.81, K91.83	ICD 10 DX
Robotic procedures	8E0W4CZ	ICD 10 PX
	S2900	CPT code
	Robotic	Text search in medical charge file - supply

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