

Supplementary Table 1. Procedure codes used for case identification. Adapted from Ananthakrishnan AN, McGinley EL, Binion DG, *et al.*²⁰

Description	ICD-9-CM codes
Endoscopic Procedures	45.1x, 45.2x, 45.3x, 45.4x, 45.52, 46.86
Incision, Excision and Anastomosis of the Intestines	45.0x, 45.33, 45.5, 45.50, 45.51, 45.6, 45.61, 45.62, 45.63, 45.9, 45.90, 45.91, 45.93, 45.94
Resection of the Large Intestine	45.7x, 45.8, 45.81, 45.82, 45.83, 45.92, 45.93, 45.94, 45.95
Rectal and Perirectal Surgery	48, 48.0, 48.1, 48.2x, 48.3x, 48.4, 48.40, 48.41, 48.42, 48.43, 48.49, 48.5, 48.50, 48.51, 48.52, 48.59, 48.6x, 48.7x, 48.8, 48.81, 48.82, 48.9, 48.91, 48.92, 48.93, 48.99
Other Surgery of the Small Intestine	46.0, 46.01, 46.02, 46.20, 46.21, 46.22, 46.23, 46.24, 46.4, 46.40, 46.41, 46.5, 46.50, 46.51, 46.6, 46.60, 46.61, 46.62, 46.71, 46.72, 46.73, 46.74, 46.81, 46.95
Other Surgery of the Large Intestine	46.03, 46.04, 46.10, 46.11, 46.13, 46.14, 46.1, 46.42, 46.43, 46.52, 46.63, 46.64, 46.75, 46.76, 46.79, 46.82, 46.87, 46.91, 46.92, 46.96
Other Intestinal Surgery, unspecified site	46.7, 46.8, 46.80, 46.85, 46.9

Supplementary Table 2. Univariate analysis of trends using negative binomial regression. Weights used are equal to the inverse of the standard error terms obtained from annual estimations of hospitalization rates.

Trend	Weighted Annual Incidence Rate Ratios (95% CI)	P value
Total NIS	0.97 (0.97 – 0.98)	<0.001
IBD, 1-17 yo	1.04 (1.03 – 1.05)	<0.001
Length of stay	0.98 (0.98 – 0.99)	<0.001
With Surgery	1.03 (1.02 – 1.04)	<0.001
Without Surgery	1.04 (1.03 – 1.05)	<0.001
Without Procedures	1.04 (1.02 – 1.05)	<0.001
Endoscopy only	1.01 (1.00 – 1.02)	0.017
Hospital days, 1988 - 2011	1.01 (1.00 – 1.03)	0.004
Hospital Days, 1988 – 1995	0.94 (0.90 – 0.98)	0.003
Hospital Days, 1996 – 2011	1.04 (1.02 – 1.05)	<0.001

Supplementary Figure 1. Trends in hospitalizations excluding shorter lengths of stay (≤ 1 day). *P* for trend < 0.001.

