

## Supplemental Information.

**SUPPLEMENTAL TABLE 3** Diagnostic and Procedure Codes Used in Study Definitions

Diagnosis	ICD-9 Codes	ICD-10 Codes <sup>a</sup>
Nonperforated appendicitis	540.9, 541, 542	Before 2019: K35.80, K35.890, K35.891, K36, K37; 2019 or later: K35.30, K35.31, K35.80, K35.890, K35.891, K36, K37
Perforated appendicitis	540.0, 540.1	Before 2019: K35.2×, K35.3×, K65.0, K65.1; 2019 or later: K35.2, K35.32, K35.33
Appendectomy	47.0×, 47.1, 47.99	OD5J, ODBJ, ODCJ, ODDJ, ODFJ, ODNJ, ODTJ
Abdominal drainage procedure	47.2 (drainage of appendiceal abscess); 54.91 (percutaneous abdominal drainage)	OW9F (drainage of abdominal wall); OW9G (drainage of peritoneal cavity); OW9H (drainage of retroperitoneum); OD9J (drainage of appendix); OD9W (drainage of peritoneum)
Postsurgical complication	998.3× (wound dehiscence); 998.5× (postsurgical infection); 553.21 (incisional hernia); 560.2, 560.8, 560.9 (intestinal obstruction)	T81.3× (wound dehiscence); T81.4× (postsurgical infection); K43.0, K43.1, K43.2 (incisional hernia); K56.2, K56.5×, K56.6× (intestinal obstruction)
Abdominal pain	789.0×	R10×
Vomiting	787.0×	R11×
Diarrhea	787.91	R19.7
Dehydration	276.51	E86.0

<sup>a</sup> The transition from ICD-9 to ICD-10 coding occurred in October 2015. In the early stages after the transition, ICD-10 code K35.3 did not distinguish between perforated and non-perforated appendicitis. This was corrected in 2019 when K35.3 was broken down into subgroups denoting perforated versus nonperforated status. To avoid misclassification of perforated cases as nonperforated, we have chosen to classify K35.3 as perforated appendicitis when ascribed before 2019. In 2019 or later, specific subgroups are used to define perforated versus nonperforated status.