

Supplementary Table 1. The specific types of major cancer surgeries with procedural codes

| <b>Procedural code</b> | <b>Name of Surgery</b>                            |
|------------------------|---|
| Lung cancer surgery    |   |
| O1401                  | Wedge Resection of Lung, Single                   |
| O1410                  | Segmentectomy of Lung                             |
| O1421                  | Single Lobectomy of Lung                          |
| O1422                  | Bilobectomy of Lung                               |
| O1423                  | Lobectomy And Segmentectomy                       |
| O1424                  | Sleeve Lobectomy                                  |
| O1431                  | Pneumonectomy                                     |
| O1432                  | Sleeve Pneumonectomy                              |
| Gastric cancer surgery |   |
| Q0251                  | Subtotal Gastrectomy (Partial)                    |
| Q0252                  | Subtotal Gastrectomy (Distal)                     |
| Q0253                  | Subtotal Gastrectomy (Distal)                     |
| Q0254                  | Subtotal Gastrectomy (Pylous Preserving)          |
| Q0255                  | Subtotal Gastrectomy (Pylous Preserving)          |
| Q0256                  | Subtotal Gastrectomy (Wedge Resection)            |
| Q0257                  | Subtotal Gastrectomy (Wedge Resection)            |
| Q0258                  | Subtotal Gastrectomy (Proximal Resection)         |
| Q0259                  | Subtotal Gastrectomy                              |
| Q2533                  | Total Gastrectomy-Abdominal Approach              |
| Q2534                  | Total Gastrectomy-Thoracic And Abdominal Approach |
| Q2536                  | Total Gastrectomy-Abdominal Approach              |
| Q2537                  | Total Gastrectomy-Thoracic And Abdominal Approach |
| Q2594                  | Subtotal Gastrectomy (Partial)                    |

Q2598 Subtotal Gastrectomy (Proximal Resection)

QA536 Total Gastrectomy

Colorectal cancer surgery

Q1261 Colectomy-Subtotal

Q1262 Colectomy-Subtotal

Q2671 Right or Left Hemicolectomy

Q2672 Colectomy-Total

Q2673 Colectomy-Segmental Resection

Q2679 Colectomy With Proximal Colostomy And Distal Stump

Q2890 Resection of Rectal Tumor-Transsacral or Parasacral

Q2891 Resection of Rectal Tumor-Transanal

Q2892 Resection of Rectal Tumor-Abdominal Approach

Q2893 Resection of Rectal Tumor-Transanal Endoscopic Microsurgery

Q2921 Rectal And Sigmoid Resection-Anterior Resection

Q2922 Rectal And Sigmoid Resection-Low Anterior Resection

Q2923 Rectal And Sigmoid Resection [A-P Resection(Mile's Operation) or A-S Resection]

Q2924 Rectal And Sigmoid Resection-Abdominal Pull Through Operation

Q2925 Total Coloproctectomy (With Ileostomy)

Q2926 Total Coloproctectomy (With Ileal Pouch-Anal Anastomosis)

Q2927 Rectal And Sigmoid Resection-Colonic J Pouch Formation

Q2974 Low Type Anal Fistulotomy And Fistulectomy

QA671 Right or Left Hemicolectomy

QA672 Colectomy-Total

QA673 Colectomy-Segmental Resection

QA679 Colectomy With Proximal Colostomy And Distal Stump

QA925 Total Coloproctectomy (With Ileostomy)

|       |  |
|-------|--|
| QA926 | Total Coloproctectomy (With Ileal Pouch-Anal Anastomosis)      |
| Q2346 | Simple Esophagectomy-Cervical And Abdominal Approach           |
| Q2347 | Simple Esophagectomy-Thoracic And Abdominal Approach           |
| Q2348 | Simple Esophagectomy-Cervical, Thoracic And Abdominal Approach |
| Q2365 | Esophageal Reconstruction After Resection-With Patch           |
| Q2366 | Esophageal Reconstruction After Resection-With Stomach         |
| Q2367 | Esophageal Reconstruction After Resection-With Jejunum         |
| Q2368 | Esophageal Reconstruction After Resection-Jejunal Free Flap    |
| Q2369 | Esophageal Reconstruction After Resection-With Colon           |

#### Small bowel cancer surgery

|       |   |
|-------|---|
| Q2645 | Polypectomy of Small Bowel or Colon                                   |
| Q2650 | Resection of Small Intestine  |
| Q2651 | Resection of Small Intestine  |
| Q2691 | Operation for Intestinal Obstruction-Including Resection of Intestine |

#### Liver cancer surgery

|       |                              |
|-------|------------------------------|
| Q7221 | Hepatectomy-Wedge Resection  |
| Q7222 | Hepatectomy-Segmentectomy    |
| Q7223 | Hepatectomy-Lobectomy        |
| Q7224 | Hepatectomy-Trisegmentectomy |

#### Pancreatic cancer surgery

|       |                                    |
|-------|------------------------------------|
| Q7230 | Hepatopancreaticoduodenectomy      |
| Q7561 | Pancreatectomy-Total               |
| Q7562 | Isolated Head Pancreatectomy       |
| Q7563 | Subtotal Pancreatectomy            |
| Q7564 | Pancreatectomy-Segmental Resection |
| Q7565 | Distal Pancreatectomy              |

- Q7566 Pancreatectomy-Wedge Resection
- Q7566 Pancreatectomy-Wedge Resection
- Q7571 Pancreaticoduodenectomy-Whipple'S Operation
- Q7572 Pancreaticoduodenectomy-Pylorus-Preserving Operation

Bile duct or gall bladder cancer surgery

- Q7332 Operation of Choledochal Cyst-Excision
  - Q7342 Radical Resection of Bile Duct-Malignant
  - Q7380 Cholecystectomy
  - Q7430 Excision of Ampulla of Vater & Replantation of Bile & Pancreatic Duct
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