Supplemental Material 1. List of colorectal cancer treatments

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| Surgery | Treatment Code |
|  | Colectomy |  |
|  | Right or left hemicolectomy\* | QA671, Q2671 |
|  | Subtotal colectomy\* | Q1261, Q1262 |
|  | Total colectomy | QA672, Q2672 |
|  | Segmental resection\* | QA673, Q2673 |
|  | Colectomy with proximal colostomy and distal stump | QA679, Q2679 |
|  | Resection of rectal tumor |  |
|  | Transanal approach | Q2891 |
|  | Transsacral or parasacral approach | Q2890 |
|  | Abdominal approach | Q2892 |
|  | Transanal endoscopic microsurgery | Q2893 |
|  | Rectal and sigmoid resection |  |
|  | Anterior resection | QA921, Q2921 |
|  | Low anterior resection | Q2927, QA922, Q2922 |
|  | Abdominoperineal resection | QA923, Q2923 |
|  | Abdominal pull through operation | QA924, Q2924 |
|  | Total coloproctectomy with ileostomy | QA925, Q2925 |
|  | Total coloproctectomy with ileal pouch-anal anastomosis | QA926, Q2926 |
| Chemotherapy  |
|  | Capecitabine | 122701ATB, 122702ATB |
|  | 5-FU (Fluorouracil) | 161430BIJ, 161431BIJ, 161432BIJ |
|  | Leucovorin | 566132BIJ, 566134BIJ, 622630BIJ, 622631BIJ,622632BIJ, 521001BIJ, 521002BIJ |
|  | Irinotecan | 177430BIJ, 177431BIJ, 177432BIJ, 177433BIJ, 177434BIJ, 177435BIJ, 177436BIJ, 177437BIJ |
|  | Bevacizumab | 554330BIJ, 554331BIJ |
|  | Cetuximab | 556430BIJ |
|  | Oxaliplatin | 205830BIJ, 205834BIJ, 205803BIJ, 205832BIJ |
| Radiation Therapy  |
|  | HD051, HD052, HD053, HD054, HD055, HD056, HD057, HD058, HD059, HD061, HD071, HD072, HD073, HD080, HD081, HD081, HD082, HD083, HD084, HD085, HD086, HD087, HD088, HD089 |
| Endoscopic procedure |
| ColonoscopyColonoscopy with biopsyRectoscopyRectoscopy with biopsySigmoidoscopySigmoidoscopy with biopsy | E7660000E7660010E7670000E7670010E7680000E7680010 |

\*Regional colectomy

Reference: Health Insurance Review & Assessment Service, Payment Standards and Review Casebook, Vascular and Colon/Anus Surgery, 2019.