

S1 Table. Diagnostic and procedure codes used to identify complications and the use of adjuvant therapy

| Category | Diagnostic code (KCD-6) | Procedure code (HCPCS and MEFT) |
|------------------------------------|--|--|
| Intraoperative complications | Bladder injury (N324, S3720, and S3721) | Bladder repair (R3550) |
| | Ureter injury (N130, N131, N135, N136, N138, N139, Q621, Q623, S3710, S3711, S3730, and S3731) | Ureteroneocystostomy (R3151, R3152, R3153, and R3154) Stent insertion (R3261, R3262, R3263, and R3264) Percutaneous nephrostomy (R3321) |
| | Intestinal injury (K5981, K5988, K599, N822, N823, S3640, S3641, S3650, S3651, S3660, and S3661) | Low anterior resection (Q2921, Q2922, Q2923, Q2924, Q2925, Q2926, Q2927, QA922, QA923, QA924, QA925, QA926, Q1261, Q1262, Q2671, Q2672, Q2673, QA671, QA672, and QA673) Colostomy or ileostomy (Q2791, Q2792, Q2793, Q2794, and Q2795) Resection and anastomosis (Q2650 and Q2651) |
| | Vascular injury (S350, S351, S352, S353, S354, S355, S357, S358, and S359) | Vessel repair (O2072, O2073, and O2074) |
| Postoperative complications | Bladder dysfunction (N310, N311, N312, N318, N319, N320, N324, N328, S3720, and S3721) | |
| | Lymphocele (I898) | |
| | Lymphedema (I890) | |
| | Bowel obstruction (K315, K565, K566, and K913) | |
| | Fistula: Bladder fistula (N321, N322, N820, and N821) | |
| | Ureter fistula (N821) | |
| Intestinal fistula (N823 and N824) | | |
| Surgical complications | Abscess (T814, T8150, T8151, T8152, T8158, T8159, and T816) | |
| | Wound disruption (T813) | Wound repair (SC027) |
| | Incisional hernia (K430, K431, K439, K450, K451, K458, K460, K461, and K469) | |

Medical complications

Venous thromboembolism (I240, T801, I802, I822, I823, I828, I829, K550, I741, I742, I743, I744, I745, I748, I749, I260, and I269)

Myocardial infarction (I210, I211, I212, I213, I2140, I2141, I2148, I2149, I219, I220, I221, I228, I229, and I252)

Cardiopulmonary arrest (I460, I461, I469, R092, and R092)

Respiratory failure (J960, J961, and J969)

Renal failure (I129, I131, I132, N170, N172, N178, N179, N19, and N990)

Bacteremia/sepsis (A400, A401, A402, A403, A408, A409, A410, A411, A412, A413, A414, A4150, A4151, A4152, A4158, A4159, A4180, A4188, A419, R651, T802, and T814)

Shock (A419, A483, F430, R570, R571, R572, R578, R579, T780, T782, T794, T811, and T882)

Pneumonia (A022, A548, B012, B250, B59, J100, J110, J120, J121, J122, J123, J128, J129, J13, J14, J150, J151, J152, J153, J154, J155, J156, J157, J158, J159, J160, J168, J170, J171, J172, J173, J178, J180, J181, J182, J188, J189, J678, J679, J680, J690, J691, J698, J700, J82, J8410, J8418, and J849)

Delirium (F058 and F059)

Acute pyelonephritis (N10)

Stroke (G463, G464, I64, I60, I600, I601, I602, I603, I604, I605, I606, I606, I607, I608, I609, I6300, I6301, I6302, I6308, I6309, I6310, I6311, I6312, I6318, I6319, I6320, I6321, I6322, I6328, I6329, I6330, I6331, I6332, I6333, I6338, I6339, I6340, I6341, I6342, I6343, I6348, I6349, I6350, I6351, I6352, I6353, I6358, I6359, I636, I638, and I639)

Blood transfusions

Whole blood (X6001, X6002, X1001, X1002, and B2050)
Packed RBCs (X2021, X2022, X2031, X2032, X2091, X2092, X2111, X2112, X2131, X2132, X2512, and X2515)

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| | Fresh frozen plasma (X2011, X2012, X2041, X2042, X2051, X2052, X2071, X2072, X2141, X2142, X2504, X2505, and X2514) Platelet concentrate (X2081, X2082, X2121, X2122, X2511, and X2513) |
| Postoperative adjuvant therapy | Radiation (HCPCS: HD010, HD011, HD012, HD013, HD014, HD015, HD016, HD017, HD018, HD019, HD020, HD041, HD041300, HD051, HD051300, HD052, HD052300, HD053, HD053300, HD054, HD054300, HD055, HD055300, HD056, HD056300, HD057, HD057300, HD058, HD058300, HD059, HD059300, HD091, HD092, HD110, HD111, HD112, HD113, HD114, HD115, HD121, HD221, HD212, HD410, HD411, HD412, HD413, HD414, HD415, HD416, HD418, HD419, HD420, HD441, HD061, and HZ271) Chemotherapy (HCPCS: CX454006, J0041, KK151, KK152, KK153, KK154, KK155, KK156, KK158, and MEFT (421)) CCRT (radiation + chemotherapy) |
