Supplemental Table 1. **Twenty** **Most Frequent Clinical Classification Software (CCS) Codes**

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| **Frequency** | **CCS Code** | **CCS Category** | **2009-Q3 2011** | **CCS Code** | **CCS Category** | **2017-Q3 2019** |
| **Total Discharges** |  |  | 23987 |  |  | 7593 |
| **1** | 152 | Arthroplasty knee | 6442 (26.9%) | 152 | Arthroplasty knee | 2415 (31.8%) |
| **2** | 124 | Hysterectomy; abdominal and vaginal | 4320 (18.0%) | 153 | Hip replacement; total and partial | 1827 (24.1%) |
| **3** | 153 | Hip replacement; total and partial | 4176 (17.4%) | 124 | Hysterectomy; abdominal and vaginal | 437 (5.8%) |
| **4** | 78 | Colorectal resection | 2440 (10.2%) | 78 | Colorectal resection | 409 (5.4%) |
| **5** | 44 | Coronary artery bypass graft (CABG) | 790 (3.3%) | 96 | Other OR lower GI therapeutic procedures | 369 (4.9%) |
| **6** | 90 | Excision; lysis peritoneal adhesions | 552 (2.3%) | 44 | Coronary artery bypass graft (CABG) | 270 (3.6%) |
| **7** | 55 | Peripheral vascular bypass | 523 (2.2%) | 79 | Local excision of large intestine lesion (not endoscopic) | 192 (2.5%) |
| **8** | 75 | Small bowel resection | 521 (2.2%) | 99 | Other OR gastrointestinal therapeutic procedures | 189 (2.5%) |
| **9** | 43 | Heart valve procedures | 517 (2.2%) | 55 | Peripheral vascular bypass | 161 (2.1%) |
| **10** | 96 | Other OR lower GI therapeutic procedures | 511 (2.1%) | 162 | Other OR therapeutic procedures on joints | 154 (2.0%) |
| **11** | 119 | Oophorectomy; unilateral and bilateral | 461 (1.9%) | 43 | Heart valve procedures | 140 (1.8%) |
| **12** | 94 | Other OR upper GI therapeutic procedures | 335 (1.4%) | 90 | Excision; lysis peritoneal adhesions | 129 (1.7%) |
| **13** | 99 | Other OR gastrointestinal therapeutic procedures | 298 (1.2%) | 94 | Other OR upper GI therapeutic procedures | 117 (1.5%) |
| **14** | 114 | Open prostatectomy | 265 (1.1%) | 171 | Suture of skin and subcutaneous tissue | 115 (1.5%) |
| **15** | 104 | Nephrectomy; partial or complete | 263 (1.1%) | 1 | Incision and excision of CNS | 83 (1.1%) |
| **16** | 1 | Incision and excision of CNS | 228 (1.0%) | 123 | Other operations on fallopian tubes | 72 (1.0%) |
| **17** | 74 | Gastrectomy; partial and total | 196 (0.8%) | 104 | Nephrectomy; partial or complete | 52 (0.7%) |
| **18** | 122 | Removal of ectopic pregnancy | 172 (0.7%) | 60 | Embolectomy and endarterectomy of lower limbs | 51 (0.7%) |
| **19** | 120 | Other operations on ovary | 115 (0.5%) | 119 | Oophorectomy; unilateral and bilateral | 46 (0.6%) |
| **20** | 60 | Embolectomy and endarterectomy of lower limbs | 101 (0.4%) | 9 | Other OR therapeutic nervous system procedures | 46 (0.6%) |
| **Total Discharges Included in Top 20 CCS Codes** |  |  | 23226 (96.8%) |  |  | 7274 (95.8%) |

Abbreviations: CCS:Clinical Classifications Software; OR: Operation Room: GI: Gastrointestinal; CNS: Central Nervous System