

## Supplemental Material

**eTable 1: Type of surgical procedures included in the study with corresponding CCS procedure category**

<b>Surgery types</b>	<b>Multi-Level CCS - Procedures</b>
Appendectomy	9.12
Coronary artery bypass graft (CABG)	7.2
Colorectal resection	9.1
Distal radius fracture*	14.3
Excision; lysis peritoneal adhesions	9.22
Hysterectomy; abdominal and vaginal	12.5
Inguinal and femoral hernia repair	9.17
Knee replacement*	14.7
Oophorectomy; unilateral and bilateral	12.1
Other hand*	14.15
Partial excision bone	14.1
Spinal fusion	14.11
Treatment; fracture or dislocation of hip and femur*	14.3
Treatment; fracture or dislocation of lower extremity*	14.3
Cholecystectomy and common duct exploration	9.16
Laminectomy; excision intervertebral disc	1.3
Mastectomy	3.3
Open prostatectomy	11.2
Thoracotomy	6.8

**Source/Notes:** SOURCE Procedures codes are from the Clinical Classifications Software. NOTE

Abbreviations: CCS, Clinical Classifications Software.