**Supplementary Table T1. OPCS-4 codes used to identify primary hip and knee replacement operations**

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| **Category** | **Code** | **Description** | **Notes** |
| *Primary Total Hip Replacement* | W37.1 | Primary total prosthetic replacement of hip joint using cement |  |
| W37.8 | Other specified total prosthetic replacement of hip joint using cement |  |
| W37.9 | Unspecified total prosthetic replacement of hip joint using cement |  |
| W38.1 | Primary total prosthetic replacement of hip joint not using cement |  |
| W38.8 | Other specified total prosthetic replacement of hip joint not using cement |  |
| W38.9 | Unspecified total prosthetic replacement of hip joint not using cement |  |
| W39.1 | Primary total prosthetic replacement of hip joint NEC |  |
| W39.8 | Other specified other total prosthetic replacement of hip joint |  |
| W39.9 | Unspecified other total prosthetic replacement of hip joint |  |
| W43.1 | Primary total prosthetic replacement of other joint using cement NEC |  |
| W43.8 | Other specified total prosthetic replacement of other joint using cement NEC |  |
| W43.9 | Unspecified total prosthetic replacement of other joint using cement NEC |  |
| W44.1 | Primary total prosthetic replacement of other joint not using cement NEC |  |
| W44.8 | Other specified total prosthetic replacement of other joint not using cement NEC |  |
| W44.9 | Unspecified total prosthetic replacement of other joint not using cement NEC |  |
| W45.1 | Other primary total prosthetic replacement of other joint NEC |  |
| W45.8 | Other specified total prosthetic replacement of other joint NEC |  |
| W45.9 | Unspecified total prosthetic replacement of other joint NEC |  |
| W52.1 | Primary prosthetic replacement of articulation of bone using cement NEC |  |
| W52.8 | Other specified prosthetic replacement of articulation of bone using cement NEC |  |
| W52.9 | Unspecified prosthetic replacement of articulation of bone using cement NEC |  |
| W53.1 | Primary prosthetic replacement of articulation of bone not using cement NEC |  |
| W53.8 | Other specified prosthetic replacement of articulation of bone not using cement NEC |  |
| W53.9 | Unspecified prosthetic replacement of articulation of bone not using cement NEC |  |
| W54.1 | Primary prosthetic replacement of articulation of bone NEC |  |
| W54.8 | Other specified prosthetic replacement of articulation of bone NEC |  |
| W54.9 | Unspecified prosthetic replacement of articulation of bone NEC |  |
| W93.1 | Primary hybrid prosthetic replacement of hip joint using cemented acetabular component |  |
| W93.8 | Other specified hybrid prosthetic replacement of hip joint using cemented acetabular component |  |
| W93.9 | Unspecified hybrid prosthetic replacement of hip joint using cemented acetabular component |  |
| W94.1 | Primary hybrid prosthetic replacement of hip joint using cemented femoral component |  |
| W94.8 | Other specified hybrid prosthetic replacement of hip joint using cemented femoral component |  |
| W94.9 | Unspecified hybrid prosthetic replacement of hip joint using cemented femoral component |  |
| W95.1 | Primary hybrid prosthetic replacement of hip joint using cement NEC |  |
| W95.8 | Other specified hybrid prosthetic replacement of hip joint using cement |  |
| W95.9 | Unspecified hybrid prosthetic replacement of hip joint using cement |  |
| *Primary Total Knee Replacement* | W40.1 | Primary total prosthetic replacement of knee joint using cement |  |
| W40.8 | Other specified total prosthetic replacement of knee joint using cement |  |
| W40.9 | Unspecified total prosthetic replacement of knee joint using cement |  |
| W41.1 | Primary total prosthetic replacement of knee joint not using cement |  |
| W41.8 | Other specified total prosthetic replacement of knee joint not using cement |  |
| W41.9 | Unspecified total prosthetic replacement of knee joint not using cement |  |
| W42.1 | Primary total prosthetic replacement of knee joint NEC |  |
| W42.8 | Other specified other total prosthetic replacement of knee joint |  |
| W42.9 | Unspecified other total prosthetic replacement of knee joint |  |
| O18.1 | Primary hybrid prosthetic replacement of knee joint using cement |  |
| O18.8 | Other specified hybrid prosthetic replacement of knee joint using cement |  |
| O18.9 | Unspecified hybrid prosthetic replacement of knee joint using cement |  |
| *Resurfacing / Reconstruction* | W58.1 | Primary resurfacing arthroplasty of joint | Require combination with site + combination codes to ID |
| W58.8 | Other specified reconstruction of joint | Require combination with site + combination codes to ID |
| W58.9 | Unspecified other reconstruction of joint | Require combination with site + combination codes to ID |
| *Primary unicondylar / unicompartmental knee operations* | W52.1 | Primary prosthetic replacement of articulation of bone using cement NEC | Require combination with site + combination codes to ID |
| W52.8 | Other specified prosthetic replacement of articulation of other bone using cement | Require combination with site + combination codes to ID |
| W52.9 | Unspecified prosthetic replacement of articulation of other bone using cement | Require combination with site + combination codes to ID |
| W53.1 | Primary prosthetic replacement of articulation of bone not using cement NEC | Require combination with site + combination codes to ID |
| W53.9 | Unspecified prosthetic replacement of articulation of other bone not using cement | Require combination with site + combination codes to ID |
| W54.0 | Conversion from previous prosthetic replacement of articulation of bone NEC | Require combination with site + combination codes to ID |
| W54.1 | Primary prosthetic replacement of articulation of bone NEC | Require combination with site + combination codes to ID |
| W54.8 | Other specified other prosthetic replacement of articulation of other bone | Require combination with site + combination codes to ID |
| W54.9 | Unspecified other prosthetic replacement of articulation of other bone | Require combination with site + combination codes to ID |