Supplemental Digital Content Table. ICD-9 Diagnosis Code Groupings Used for Incident Injury Outcomes Adapted from the Barell Matrix (Barell, Aharonson-Daniel et al., 2002) and Hauret et al. (Hauret, Jones et al., 2010)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **A. Acute Injury (ICD-9- CM diagnosis 800-999)** | | | | | | |
|  | **Fracture** | **Dislocation** | **Sprain/**  **strain** | **Medial tibial stress syndrome** | **Contusion/**  **superficial** | **Crush** |
| **Hip** | 820 | 835 | 843 | -- | 924.01 | 928.01 |
| **Upper leg,**  **thigh** | 821 | -- | -- | -- | 924.00 | 928.00 |
| **Knee** | 822 | 836 | 844.0,-.3 | -- | 924.11 | 928.11 |
| **Lower leg,**  **ankle** | 823-824 | 837 | 845.0 | 844.9 | 924.10,.21 | 928.10,.21 |
| **Foot/toes** | 825-826 | 838 | 845.1 | -- | 917, 924.3,.20 | 928.3,.20 |
| **Other &**  **unspecified** | 827 | -- | 844.8,.9 | -- | 916, 924.4-.5 | 928.8,.9 |
| **B. Musculoskeletal Condition (ICD-9-CM diagnosis 700-799)** | | | | | | |
|  | **Stress fracture** | **Dislocation** | **Sprain/**  **Strain/**  **rupture** | **Medial tibial stress syndrome** | **Inflammation/**  **pain (overuse)** | **Joint derange-**  **ment** |
| **Pelvis**  **hip**  **thigh** | 733 (.14-.15, .96-.98) | 718.35, \*.25 | 727.65 | -- | 716.15, 719 (.05, .15, .45), 726.5 | 718 (.05, .15, .85, .95) |
| **Knee** | 733 (.16, .93) | 718.36, \*.26 | 717.8, 727 (.66-.67), \*717.9 | 726.72 | 726.6 | 717 (.0-.6, .9), 718 (.06, .16, .86, .96), \*717.89 |
| **Lower**  **leg** | -- | -- | -- | -- | 716.16, 717.7, 719 (.06, .16, .46), \*716.96, 726.72,.71, 729.72 | -- |
| **Ankle** | -- | 718.37,\*.27 | 727.68, \*.67 | -- | 716.17, 719 (.07,.47), \*726.70,.79 | -- |
| **Foot** | -- | -- | -- | -- | 726.73, 728.71, 734, \*355.5 | -- |
| **Ankle & foot** | 733.94 | -- | -- | -- | 719.17 | .87,717.97 |

\*Codes not in the original Hauret et al. matrix added by the first author (KLK).