**Supplemental Table 2: List ICD-9 codes for back injuries or disorders (other than low back)**

| **ICD-9 code** | **Description** |
| --- | --- |
| **More severe** |  |
| 721 | Spondylosis and allied disorders |
| 721.91 | Spondylosis of unspecific site with myelopathy |
| 722 | Intervertebral disc disorders |
| 722.2 | Displacement of intervertebral disc site unspecific without myelopathy |
| 722.7 | Intervertebral dis disorder with myelopathy |
| 722.70 | Intervertebral dis disorder with myelopathy unspecific region |
| 722.8 | Postlaminectomy syndrome |
| 722.80 | Postlaminectomy syndrome of unspecific region |
| 724.0 | Spinal stenosis other than cervical |
| 724.00 | Spinal stenosis of unspecific region |
| 724.09 | Spinal stenosis of other region |
| 729.2 | Neuralgia/neuritis NOS |
| 952.9 | Unspecific site of spinal cord injury without spinal bone injury |
| 953.1 | Injury to dorsal nerve root |
| 953.9 | Injury to unspecific site of nerve root and spinal plexus |
| **Less severe** |  |
| 349.9 | Unspecific disorders of nervous system |
| 720.0 | Ankylosing spondylitis and other inflammatory spondylopathies |
| 720.1 | Spinal enthesopathy |
| 720.8 | Other inflammatory spondylopathies |
| 720.81 | Inflammatory spondylopathies in diseases classified elsewhere  |
| 720.89 | Other inflammatory spondylopathies |
| 720.9 | Unspecified inflammatory spondylopathy,  |
| 721.7 |  Traumatic spondylopathy,  |
| 721.8 | Other allied disorders of spine |
| 721.9 | Spondylosis of unspecific site |
| 721.90 | Spondylosis of unspecific site without myelopathy |
| 722.3 | Schmorl’s nodes |
| 722.30 | Schmorl’s nodes of unspecific region |
| 722.6 | Degeneration of intervertebral site unspecific  |
| 722.9 | Other and unspecified disc disorder  |
| 722.90 | Other and unspecified disc disorder of unspecified region |
| 724 | Other and unspecific disorders of back |
| 724.8 | Other symptoms referable to back |
| 724.9 | Other unspecific back disorders |
| 728.2 | Atrophy, muscular disuse NEC |
| 728.8 | Disorders, muscle/ligament/fascia |
| 728.85 | Spasm, muscle |
| 728.9 | Disorder, muscle/ligament NOS |
| 729.1 | Myalgia/myositis NOS |
| 729.9 | Disorder, soft tissue NEC/NOS |
| 737.8 | Other curvature of spine associated with other conditions  |
| 737.9 | Unspecific curvature of spine associated with other conditions  |
| 738.5 | Other acquired deformity of back or spine  |
| 756.15 | Fusion of spine (vertebra) congenital |
| 799.8 | Other ill-defined conditions |
| 939.4 | Closed dislocation other vertebra |
| 939.40 | Closed dislocation vertebra unspecific site |
| 839.69 | Closed dislocation other location |
| 839.8 | Closed dislocation multiple and ill-defined sites |
| 847 | Sprains and strains of other and unspecified parts of back |
| 847.9 | Sprain of unspecified site of back |
| 848 | Other and ill-defined sprains and strains  |
| 848.8 | Other specified sites of sprain and strain |
| 848.9 | Unspecified site of sprain and strain |
| 905 | Late effect of musculoskeletal and connective tissue injuries |
| 905.7 | Late effect of sprain and strain without tendon injury |
| 922.3 | Contusion of back |
| 922.31 | Contusion of back |
| 922.32 | Contusion of buttock |
| 922.8 | Contusion of multiple sites of trunk |
| 922.9 | Contusion of unspecified part of trunk |
| 959.1 | Injury trunk |
| 959.19 | Other and unspecified injury of other sites of trunk |
| 959.8 | Contusion of multiple sites of trunk |
| 959.9 | Contusion of unspecified part of trunk |