**Appendix A: Descriptions of ICD-9 Codes Used in Sample Selection and Outcome Definitions**

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| **ICD-9 code** | **Name of Procedure** |
| **Inclusion Criteria** |  |
| 81.01 | Atlas-axis spinal fusion |
| 81.03 | Other cervical fusion of the posterior column, posterior technique |
| 81.05 | Dorsal and dorsolumbar fusion of the posterior column, posterior technique |
| 81.07 | Lumbar and lumbosacral fusion of the posterior column, posterior technique |
| 81.08 | Lumbar and lumbosacral fusion of the anterior column, posterior technique |
| 81.31 | Refusion of atlas-axis spine |
| 81.33 | Refusion of other cervical spine, posterior column, posterior technique |
| 81.35 | Refusion of dorsal and dorsolumbar spine, posterior column, posterior technique |
| 81.37 | Refusion of lumbar and lumbosacral spine, posterior column, posterior technique |
| 81.38 | Refusion of lumbar and lumbosacral spine, anterior column, posterior technique |
| **Outcomes** |  |
| 038.11 | Methicillin susceptible Staphylococcus aureus septicemia |
| 038.12 | Methicillin resistant Staphylococcus aureus septicemia |
| 790.7 | Bacteremia |
| 038.10 | Staphylococcal septicemia, unspecified |
| 03.02 | Reopening of laminectomy site |
| 03.09 | Other exploration and decompression of spinal canal |
| 03.4 | Excision or destruction of lesion of spinal cord or spinal meninges |
| 38.97 | Central venous catheter placement with guidance |
| 77.19 | Other incision of bone without division, other bones |
| 77.49 | Biopsy of bone, other bones |
| 77.69 | Local excision of lesion or tissue of bone, other bones |
| 78.69 | Removal of implanted devices from bone, other bones |
| 80.09 | Arthrotomy for removal of prosthesis without replacement, other specified sites |
| 80.39 | Biopsy of joint structure, other specified sites |
| 81.07 | Lumbar and lumbosacral fusion of the posterior column, posterior technique |
| 81.35 | Refusion of dorsal and dorsolumbar spine, posterior column, posterior technique |
| 81.37 | Refusion of dorsal and dorsolumbar spine, posterior column, posterior technique |
| 81.38 | Refusion of lumbar and lumbosacral spine, anterior column, posterior technique |
| 81.39 | Refusion of spine, not elsewhere classified |
| 81.62 | Fusion or refusion of 2-3 vertebrae |
| 81.63 | Fusion or refusion of 4-8 vertebrae |
| 81.64 | Fusion or refusion of 9 or more vertebrae |
| 83.02 | Myotomy |
| 83.09 | Other incision of soft tissue |
| 83.14 | Fasciotomy |
| 83.44 | Other fasciectomy |
| 83.45 | Other myectomy |
| 84.51 | Insertion of interbody spinal fusion device |
| 86.04 | Other incision with drainage of skin and subcutaneous tissue |
| 86.22 | Excisional debridement of wound, infection, or burn |
| 730.0x | Acute osteomyelitis |
| 730.2x | Unspecified osteomyelitis |
| 324.1 | Intraspinal abscess |
| 324.9 | Intracranial and intraspinal abscess of unspecified site |
| 996.66 | Infection and inflammatory reaction due to internal joint prosthesis |
| 996.67 | Infection and inflammatory reaction due to other internal orthopedic device, implant, and graft |
| 567.xx | Peritonitis and retroperitoneal infections |
| 320.3 | Staphylococcal meningitis |