**Appendix:**

**TABLE S1:**  International Classification of Diseases, Ninth Revision (ICD-9) Codes used to identify Adverse Medical Device Events

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| --- | --- |
| 996.01 | Mechanical complication due to cardiac pacemaker (electrode) |
| 996.02 | Mechanical complication due to heart valve prosthesis |
| 996.04 | Mechanical complication of automatic implantable cardiac defibrillator |
| 996.09 | Other mechanical complication of cardiac device, implant, and graft |
| 996.1 | Mechanical complication of other vascular device, implant, and graft |
| 996.2 | Mechanical complication of nervous system device, implant, and graft |
| 996.32 | Mechanical complication due to intrauterine contraceptive device |
| 996.39 | Other mechanical complication of genitourinary device, implant, and graft |
| 996.4 | Mechanical complication of internal orthopedic device, implant, and graft |
| 996.53 | Mechanical complication of prosthetic ocular lens prosthesis |
| 996.54 | Mechanical complication of breast prosthesis |
| 996.56 | Mechanical complication due to peritoneal dialysis catheter |
| 996.59 | Mechanical complication of other implant and internal device, not elsewhere classified |
| 996.61 | Infection and inflammatory reaction due to cardiac device, implant, and  graft |
| 996.62 | Infection and inflammatory reaction due to other vascular device, implant, and graft |
| 996.63 | Infection and inflammatory reaction due to nervous system device, implant, and graft |
| 996.64 | Infection and inflammatory reaction due to indwelling urinary catheter |
| 996.65 | Infection and inflammatory reaction due to other genitourinary device, implant, and graft |
| 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 |
| 996.68 | Infection and inflammatory reaction due to peritoneal dialysis catheter |
| 996.69 | Infection and inflammatory reaction due to other internal prosthetic device, implant, and graft |
| 996.70 | Other complications due to unspecified device, implant, and graft |
| 996.71 | Other complications due to heart valve prosthesis |
| 996.72 | Other complications due to other cardiac device, implant, and graft |
| 996.73 | Other complications due to renal dialysis device, implant, and graft |
| 996.74 | Other complications due to other vascular device, implant, and graft |
| 996.75 | Other complications due to nervous system device, implant, and graft |
| 996.76 | Other complications due to genitourinary device, implant, and graft |
| 996.77 | Other complications due to internal joint prosthesis |
| 996.78 | Other complications due to other internal orthopedic device, implant, and graft |
| 996.79 | Other complications due to other internal prosthetic device, implant, and graft |

|  |  |
| --- | --- |
| E878.1 | Surgical operation with implant of artificial internal device causing abnormal patient reaction, or later complication, without mention of misadventure at time of operation |
| E878.2 | Surgical operation with anastomosis, bypass, or graft, with natural or artificial tissues used as implant causing abnormal patient reaction, or later complication, without mention of misadventure at time of operation |
| E879.4 | Aspiration of fluid as the cause of abnormal reaction of patient, or of later complication, without mention of misadventure at time of procedure |

\*Adapted from Samore MH, Evans RS, Lassen A, Gould P, Lloyd J, Gardner RM, et al. Surveillance of medical device-related hazards and adverse events in hospitalized patients. JAMA. 2004;291:325-34.