

[Supplementary online-only material for Nelson RE, Xie Y, DuVall SL: Multiple sclerosis and risk of infection-related hospitalization and death in US veterans. *Int J MS Care*. 2015;17(5):221–230.]

**Supplementary Table 1. Definitions for identifying infections**

Infection	ICD-9-CM code
<b>Infection definitions</b>	
Intestinal infectious diseases, tuberculosis, zoonotic bacterial diseases, other bacterial diseases, HIV, poliomyelitis, viral diseases accompanied by exanthema, arthropod-borne viral diseases, other diseases due to viruses and chlamydiae, rickettsioses, syphilis and other venereal diseases, other spirochetal diseases	001–104
Mycoses	110–118
Toxoplasmosis, trichomoniasis	130–131
Pneumocytosis, psorospermiasis, sarcosporidiosis	136.2–136.5
Bacterial meningitis	320
Meningitis	321
Intracranial and intraspinal abscess	324
Purulent endophthalmitis	360.0
Acute conjunctivitis	372.0
Cellulitis, orbital	376.01
Osteomyelitis, orbital	376.03

Eustachian salpingitis	381.5
Suppurative and unspecified otitis media	382
Mastoiditis	383.0
Chronic mastoiditis	383.1
Unspecified mastoiditis	383.9
Endocarditis	421
Septic myocarditis	422.92
Acute respiratory infections	460–466
Chronic pharyngitis and nasopharyngitis	472
Chronic sinusitis	473
Peritonsillar abscess	475
Pneumonia	480–486
Influenza	487.0–487.8
Influenza	488.01–488.19
Empyema	510
Abscess of lung and mediastinum	513
Inflammatory conditions of the jaw	526.4
Cellulitis and abscess of oral soft tissues	528.3
Acute appendicitis	540
Abscesses of anal and rectal regions	566
Peritonitis and retroperitoneal infections	567

Abscess of intestine	569.5
Infection of colostomy or enterostomy	569.61
Liver abscess and sequelae of chronic liver disease	572
Hepatitis in viral diseases	573.1
Hepatitis in other infectious diseases	573.2
Infections of kidney	590
Cystitis	595.xx
Urethritis	597
UTI	599.0
Acute prostatitis	601.0
Abscess of prostate	601.2
Prostatitis in diseases classified elsewhere	601.4
Other inflammatory disorders of male genital organs	608.4
Inflammatory disease of breast	611.0
Acute parametritis and pelvic cellulitis	614.3
Chronic parametritis and pelvic cellulitis	614.4
Skin and soft tissue infections	680–686
Erythematous	695.81
Arthropathy associated with infections	711 (excluding 711.7)
Necrotizing fasciitis	728.86
Periostitis without osteomyelitis	730.3

Chronic osteomyelitis	730.1
Unspecified osteomyelitis	730.2
Undiagnosed cardiac murmurs	785.4
Bacteremia	790.7
Viremia	790.8
Posttraumatic wound infection	958.3
Infection due to prosthetic device implant and graft	996.6
Postoperative infection not elsewhere classified	998.5
<b>Definitions for identifying opportunistic infections</b>	
Tuberculosis-mycobacterium	010.xx-018.xx
Nontuberculosis mycobacteria	031.x
Histoplasmosis-fungus	115.xx
Blastomycosis-fungus	116.x
Coccidioidomycosis-fungus	114.xx
Cryptococcosis-fungus + antigen + antibodies	117.5, 321.0
Endemic mycosis (non-specific outcome of all endemic fungi above)	484.7
Nocardiosis/actinomycosis	039.x
Listeriosis	027.0
Toxoplasmosis	130.x
Pneumocystosis	136.3
Legionellosis	482.84

Salmonellosis	003.xx
Aspergillosis	117.3, 484.6
Candidemia/Candidiasis	112.xx
Zoster	053.xx
Progressive multifocal leukoencephalopathy (PML)	046.3
<b>Definitions for identifying respiratory, urinary tract, skin and soft tissue, and septicemia infections</b>	
Respiratory	011.xx–012.xx, 460.xx–466.xx, 480.xx–488.xx, 473.x
Infection of urinary system	595.xx, 590.xx, 599.0; 595.xx
Infections of the skin and subcutaneous tissue	027.1, 050.xx–059.xx, 695.81, 684, 680.x, 686.0x, 039.0, 686.8, 686.9, 695.81
Septicemia	038.xx
<b>Definitions for identifying infections–Roche Swedish study definitions</b>	

All infections	001.xx–139.xx, 320.xx– 321.xx, 324.x, 460.xx–466.xx, 480.xx–488.xx, 473.xx– 476.xx, 003.23, 056.71, 711.xx, 098.5x, 695.81, 684, 680.x, 686.0x, 039.0, 686.8, 686.9, 382.xx, 590.1x, 595.0
Respiratory infections	011.xx–012.xx, 460.xx– 466.xx, 480.xx–488.xx, 473.x, 476.x
Intestinal infectious diseases	001.xx–009.xx
Infections of the skin and subcutaneous tissue	027.1, 050.xx–059.xx, 695.81, 684, 680.x, 686.0x, 039.0, 686.8, 686.9
Infectious arthropathies	003.23, 056.71, 711.xx, 098.5x
Septicemia	038.xx
Infection of urinary system	595.xx, 590.xx, 599.0
Viral and other specified intestinal infections	008.xx
Influenza	487.x
Bacterial pneumonia	481, 482.xx, 483.x
Pneumonia in bacterial diseases	003.22, 021.2, 039.1, 484.x

Viral pneumonia	480.x
Progressive multifocal leucoencephalopathy	046.3
Infectious mononucleosis	075
Pneumocystis pneumonia	136.3

**Supplementary Table 2. Definitions of independent variables**

Variable	Definition
<b>KEY INDEPENDENT VARIABLES</b>	
MS	ICD-9 code: 340
MS subtype	Non-MS Relapsing-remitting Progressive Progressive-relapsing Unknown
<b>DEMOGRAPHIC CHARACTERISTICS</b>	
Age	Clinical trial age (18–55)
Gender	Male
BMI	<18.5 = underweight 18.5–24.9 = normal weight 25–29.9 = overweight 30–34.5 = obese 35+ = severely obese



Race	White Black Native American Hispanic Asian Unknown
Marital status	Married Not married Divorced Separated Widowed Unknown
<b>DISABILITY</b>	
Wheelchair assistance	See Supplementary Table 3
Bilateral assistance	See Supplementary Table 3
<b>COMORBID DIAGNOSES</b>	
Alcohol	ICD-9 codes: 303.0–303.9
Autoimmune disease	ICD-9 codes: 714 (rheumatoid arthritis), 556 (ulcerative colitis), 555.x (Crohn’s disease), 710.0 (systemic lupus erythematosus), 446.4 (Wegener’s granulomatosis), 710.1 (scleroderma), 710.2 (Sjögren’s disease), 710.4 (polymyositis), 694.4 (pemphigus), 358.0 (myasthenia gravis), 696.0-696.1 (psoriasis).

Cardiovascular disease	ICD-9 codes: 430–438
COPD	ICD-9 codes: 490–496
Diabetes	ICD-9 codes: 249, 250
Drug dependence	ICD-9 codes: 410–414
Ischemic heart disease	ICD-9 codes: 584, 585, 586
Kidney disease	ICD-9 codes: 304
Malignant diseases	ICD-9 codes: 140–208 (malignant neoplasms), 209 (neuroendocrine tumors), 230–234 (carcinoma in situ)
Other heart disease	ICD-9 codes: 420–429
Pulmonary circulation disease	ICD-9 codes: 415–417
Smoking	ICD-9 codes: 305.1, 649.00, 649.01, 649.02, 649.03, 649.04, 989.84, V15.82
1+ comorbidity	More than one of the above
<b>CONCOMITANT</b>	
<b>MEDICATIONS</b>	
Alcohol	Prescription for: disulfiram, naltrexone or acamprosate
Cardiovascular disease	Prescription for: nimodipine
COPD	Prescription for: tiotropium, ipratropium/albuterol, and ipratropium

Diabetes	Prescription for: pioglitazone, rosiglitazone, glimepiride, exenatide, glipizide, glyburide, saxagliptin, repaglinide, acarbose, nateglinide, liraglutide, sitagliptin, linagliptin, miglitol, pramlintide, chlorpropamide, glimepiride/rosiglitazone, glimepiride/pioglitazone, glipizide/metformin, glyburide/metformin, insulin, insulin aspartate protamine/insulin aspartate recombinant, insulin aspartate recombinant, insulin detemir, insulin glargine recombinant, insulin glulisine, insulin lispro, protamine/insulin lispro recombinant, insulin lispro recombinant, metformin, metformin/pioglitazone, metformin/rosiglitazone, metformin/repaglinide, metformin/sitagliptin, tolazamide, tolbutamide, troglitazone, and glucose test strips
Drug dependence	Prescription for: buprenorphine/naloxone and naltrexone
Ischemic heart disease	Prescription for: nitroglycerin, isosorbide dinitrate, isosorbide mononitrate and ranolazine
Kidney disease	Prescription for: sevelamer, lanthanum (fosrenol), calcium acetate
Other heart disease	Prescription for: antihypertensives (including diuretics), antiarrhythmics and digoxin; and drugs for acute coronary syndrome including prasugrel
Pulmonary circulation disease	Prescription for: ambresentan, bosentan, treprostinil, iloprost and epoprostenol

<p>Immunosuppressive drugs</p>	<p>Prescription for: abatacept, adalimumab (humira), alimta (pemetrexid), amevive (alefacept), anagrelide, anakinra, anti-thymocyte globulin, avastin (bevacizumab), azacitidine (vidaza), azathioprine, bendamustine, betameth, bleomycin, bortezomib, busulfan, capecitabine, carboplatin, carmustine, celecoxib, certolizumab, cetuximab (erbitux), chlorambucil, cisplatin, cladribine, cortizone, cyclophosphamide, cyclosporine (gengraf, sandimmune), cytarabine, dacarbazine, daclizumab, dasatinib (sprycel), daunorubicin, decitabine, dexamethasone, docetaxel, doxorubicin, efalizumab, enbrel (etanercept), epirubicin, erlotinib (tarceva), estramustine, etoposide, fingolimod, fludarabine, fluorouracil, gefitinib, gemcitabine, gemtuzumab, gleevec (imatinib), golimumab, hydrocortisone, hydroxyurea, idarubicin, ifosfamide, infliximab, irinotecan, lapatinib, leflunomide, lenalidomide (revlimid), mechlorethamine, mercaptopurine, methotrexate, methylprednisolone, mitomycin, mitoxantrone, mycophenolate (myfortic), mycophenolic acid, natalizumab (tysabri), nilotinib, oxaliplatin, paclitaxel, pemetrexed, pentostat, prednisolone, prednisone, procarbazine, rapamune, rituximab, sirolimus, sorafenib, streptomycin, sunitinib, tacrolimus (prograf), temozolamide, temsirolimus, thalidomide, thioguanine, thiotepa, topotecan, trastuzumab, tretinoin, triamcinolone, ustekinumab, panitumumab (vectibix), vinblastine, vincristine, vinorelbine, vorinostat (zolinza)</p>
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IV methylprednisolone	Prescription for: IV methylprednisolone
<b>HEALTH-CARE</b>	
<b>RESOURCE UTILIZATION</b>	
Days of hospitalization	Sum of total length of stay in hospital
Number of outpatient visits	Total number of outpatient visits
Number of distinct INN prescribed	Total number of distinct International Nonproprietary Name (INN) generic drugs prescribed

**Supplementary Table 3. Definitions for identifying infections–Montgomery et al.**

Infection	ICD-9 codes
All infections	001.xx–139.xx, 320.xx–321.xx, 324.x, 460.xx–466.xx, 480.xx–488.xx, 473.xx–476.xx, 003.23, 056.71, 711.xx, 098.5x, 695.81, 684, 680.x, 686.0x, 039.0, 686.8, 686.9, 382.xx, 590.1x, 595.0
Respiratory infections	011.xx–012.xx, 460.xx–466.xx, 480.xx–488.xx, 473.x, 476.x
Intestinal infectious diseases	001.xx–009.xx
Infections of the skin and subcutaneous tissue	027.1, 050.xx–059.xx, 695.81, 684, 680.x, 686.0x, 039.0, 686.8, 686.9
Infectious arthropathies	003.23, 056.71, 711.xx, 098.5x
Septicemia	038.xx
Infection of urinary system	595.xx, 590.xx, 599.0
Viral and other specified intestinal infections	008.xx
Influenza	487.x
Bacterial pneumonia	481, 482.xx, 483.x
Pneumonia in bacterial diseases	003.22, 021.2, 039.1, 484.x
Viral pneumonia	480.x
Progressive multifocal leucoencephalopathy	046.3

Infectious mononucleosis	075
Pneumocystis pneumonia	136.3

**Supplementary Table 4. HCPCS codes for wheelchair assistance and bilateral assistance**

<b>HCPCS code</b>	<b>Description</b>
<b>WHEELCHAIR ASSISTANCE</b>	
A0130	Non-emergency transportation: wheelchair van
E0950	Wheelchair accessory, tray, each
E0955	Wheelchair accessory, headrest, cushioned, any type, including fixed mounting hardware, each
E0956	Wheelchair accessory, lateral trunk or hip support, any type, including fixed mounting hardware, each
E0957	Wheelchair accessory, medial thigh support, any type, including fixed mounting hardware, each
E0958	Manual wheelchair accessory, one-arm drive attachment, each
E0959	Manual wheelchair accessory, adapter for amputee, each
E0960	Wheelchair accessory, shoulder harness/straps or chest strap, including any type mounting hardware
E0961	Manual wheelchair accessory, wheel lock brake extension (handle), each
E0966	Manual wheelchair accessory, headrest extension, each
E0967	Manual wheelchair accessory, hand rim with projections, any type, each
E0968	Commode seat, wheelchair
E0969	Narrowing device, wheelchair
E0971	Manual wheelchair accessory, anti-tipping device, each



E0973	Wheelchair accessory, adjustable height, detachable armrest, complete assembly, each
E0974	Manual wheelchair accessory, anti-rollback device, each
E0978	Wheelchair accessory, positioning belt/safety belt/pelvic strap, each
E0980	Safety vest, wheelchair
E0981	Wheelchair accessory, seat upholstery, replacement only, each
E0982	Wheelchair accessory, back upholstery, replacement only, each
E0983	Manual wheelchair accessory, power add-on to convert manual wheelchair to motorized wheelchair, joystick control
E0984	Manual wheelchair accessory, power add-on to convert manual wheelchair to motorized wheelchair, tiller control
E0985	Wheelchair accessory, seat lift mechanism
E0986	Manual wheelchair accessory, push activated power assist, each
E0990	Wheelchair accessory, elevating leg rest, complete assembly, each
E0992	Manual wheelchair accessory, solid seat insert
E0995	Wheelchair accessory, calf rest/pad, each
E1002	Wheelchair accessory, power seating system, tilt only
E1003	Wheelchair accessory, power seating system, recline only, without shear reduction
E1004	Wheelchair accessory, power seating system, recline only, with mechanical shear reduction
E1005	Wheelchair accessory, power seating system, recline only, with power shear reduction

E1006	Wheelchair accessory, power seating system, combination tilt and recline, without shear reduction
E1007	Wheelchair accessory, power seating system, combination tilt and recline, with mechanical shear reduction
E1008	Wheelchair accessory, power seating system, combination tilt and recline, with power shear reduction
E1009	Wheelchair accessory, addition to power seating system, mechanically linked leg elevation system, including pushrod and leg rest, each
E1010	Wheelchair accessory, addition to power seating system, power leg elevation system, including leg rest, pair
E1011	Modification to pediatric size wheelchair, width adjustment package (not to be dispensed with initial chair)
E1014	Reclining back, addition to pediatric size wheelchair
E1015	Shock absorber for manual wheelchair, each
E1016	Shock absorber for power wheelchair, each
E1017	Heavy duty shock absorber for heavy duty or extra heavy duty manual wheelchair, each
E1018	Heavy duty shock absorber for heavy duty or extra heavy duty power wheelchair, each
E1020	Residual limb support system for wheelchair
E1028	Wheelchair accessory, manual swingaway, retractable or removable mounting hardware for joystick, other control interface or positioning accessory

E1029	Wheelchair accessory, ventilator tray, fixed
E1030	Wheelchair accessory, ventilator tray, gimbaled
E1050	Fully-reclining wheelchair, fixed full length arms, swing away detachable elevating leg rests
E1060	Fully-reclining wheelchair, detachable arms, desk or full length, swing away detachable elevating leg rests
E1070	Fully-reclining wheelchair, detachable arms (desk or full length) swing away detachable footrest
E1083	Hemi-wheelchair, fixed full length arms, swing away detachable elevating leg rest
E1084	Hemi-wheelchair, detachable arms desk or full length arms, swing away detachable elevating leg rests
E1085	Hemi-wheelchair, fixed full length arms, swing away detachable foot rests
E1086	Hemi-wheelchair detachable arms desk or full length, swing away detachable footrests
E1087	High strength lightweight wheelchair, fixed full length arms, swing away detachable elevating leg rests
E1088	High strength lightweight wheelchair, detachable arms desk or full length, swing away detachable elevating leg rests
E1089	High strength lightweight wheelchair, fixed length arms, swing away detachable footrest
E1090	High strength lightweight wheelchair, detachable arms desk or full length, swing away detachable foot rests

E1092	Wide heavy duty wheelchair, detachable arms (desk or full length), swing away detachable elevating leg rests
E1093	Wide heavy duty wheelchair, detachable arms desk or full length arms, swing away detachable footrests
E1100	Semi-reclining wheelchair, fixed full length arms, swing away detachable elevating leg rests
E1110	Semi-reclining wheelchair, detachable arms (desk or full length) elevating leg rest
E1130	Standard wheelchair, fixed full length arms, fixed or swing away detachable footrests
E1161	Manual adult size wheelchair, includes tilt in space
E1170	Amputee wheelchair, fixed full length arms, swing away detachable elevating leg rests
E1171	Amputee wheelchair, fixed full length arms, without footrests or leg rest
E1172	Amputee wheelchair, detachable arms (desk or full length) without footrests or leg rest
E1180	Amputee wheelchair, detachable arms (desk or full length) swing away detachable footrests
E1190	Amputee wheelchair, detachable arms (desk or full length) swing away detachable elevating leg rests
E1195	Heavy duty wheelchair, fixed full length arms, swing away detachable elevating leg rests
E1200	Amputee wheelchair, fixed full length arms, swing away detachable footrest

E1220	Wheelchair; specially sized or constructed (indicate brand name, model number, if any) and justification
E1221	Wheelchair with fixed arm, footrests
E1222	Wheelchair with fixed arm, elevating leg rests
E1223	Wheelchair with detachable arms, footrests
E1224	Wheelchair with detachable arms, elevating leg rests
E1225	Wheelchair accessory, manual semi-reclining back (recline greater than 15 degrees, but less than 80 degrees), each
E1226	Wheelchair accessory, manual fully reclining back (recline greater than 80 degrees), each
E1227	Special height arms for wheelchair
E1228	Special back height for wheelchair
E1229	Wheelchair, pediatric size, not otherwise specified
E1231	Wheelchair, pediatric size, tilt-in-space, rigid, adjustable, with seating system
E1232	Wheelchair, pediatric size, tilt-in-space, folding, adjustable, with seating system
E1233	Wheelchair, pediatric size, tilt-in-space, rigid, adjustable, without seating system
E1234	Wheelchair, pediatric size, tilt-in-space, folding, adjustable, without seating system
E1235	Wheelchair, pediatric size, rigid, adjustable, with seating system
E1236	Wheelchair, pediatric size, folding, adjustable, with seating system
E1237	Wheelchair, pediatric size, rigid, adjustable, without seating system
E1238	Wheelchair, pediatric size, folding, adjustable, without seating system
E1239	Power wheelchair, pediatric size, not otherwise specified

E1240	Lightweight wheelchair, detachable arms (desk or full length) swing away detachable, elevating leg rest
E1250	Lightweight wheelchair, fixed full length arms, swing away detachable footrest
E1260	Lightweight wheelchair, detachable arms (desk or full length) swing away detachable footrest
E1270	Lightweight wheelchair, fixed full length arms, swing away detachable elevating leg rests
E1280	Heavy duty wheelchair, detachable arms (desk or full length) elevating leg rests
E1285	Heavy duty wheelchair, fixed full length arms, swing away detachable footrest
E1290	Heavy duty wheelchair, detachable arms (desk or full length) swing away detachable footrest
E1295	Heavy duty wheelchair, fixed full length arms, elevating leg rest
E1296	Special wheelchair seat height from floor
E1297	Special wheelchair seat depth, by upholstery
E1298	Special wheelchair seat depth and/or width, by construction
E2201	Manual wheelchair accessory, nonstandard seat frame, width greater than or equal to 20 inches and less than 24 inches
E2202	Manual wheelchair accessory, nonstandard seat frame width, 24-27 inches
E2203	Manual wheelchair accessory, nonstandard seat frame depth, 20 to less than 22 inches
E2204	Manual wheelchair accessory, nonstandard seat frame depth, 22 to 25 inches

E2205	Manual wheelchair accessory, handrim without projections (includes ergonomic or contoured), any type, replacement only, each
E2206	Manual wheelchair accessory, wheel lock assembly, complete, each
E2207	Wheelchair accessory, crutch and cane holder, each
E2208	Wheelchair accessory, cylinder tank carrier, each
E2209	Accessory, arm trough, with or without hand support, each
E2210	Wheelchair accessory, bearings, any type, replacement only, each
E2211	Manual wheelchair accessory, pneumatic propulsion tire, any size, each
E2212	Manual wheelchair accessory, tube for pneumatic propulsion tire, any size, each
E2213	Manual wheelchair accessory, insert for pneumatic propulsion tire (removable), any type, any size, each
E2214	Manual wheelchair accessory, pneumatic caster tire, any size, each
E2215	Manual wheelchair accessory, tube for pneumatic caster tire, any size, each
E2216	Manual wheelchair accessory, foam filled propulsion tire, any size, each
E2217	Manual wheelchair accessory, foam filled caster tire, any size, each
E2218	Manual wheelchair accessory, foam propulsion tire, any size, each
E2219	Manual wheelchair accessory, foam caster tire, any size, each
E2220	Manual wheelchair accessory, solid (rubber/plastic) propulsion tire, any size, each
E2221	Manual wheelchair accessory, solid (rubber/plastic) caster tire (removable), any size, each
E2222	Manual wheelchair accessory, solid (rubber/plastic) caster tire with integrated wheel, any size, each

E2223	Deleted 12/31/2009: Manual wheelchair accessory, valve, any type, replacement only, each
E2224	Manual wheelchair accessory, propulsion wheel excludes tire, any size, each
E2225	Manual wheelchair accessory, caster wheel excludes tire, any size, replacement only, each
E2226	Manual wheelchair accessory, caster fork, any size, replacement only, each
E2227	Manual wheelchair accessory, gear reduction drive wheel, each
E2228	Manual wheelchair accessory, wheel braking system and lock, complete, each
E2230	Manual wheelchair accessory, manual standing system
E2231	Manual wheelchair accessory, solid seat support base (replaces sling seat), includes any type mounting hardware
E2291	Back, planar, for pediatric size wheelchair including fixed attaching hardware
E2292	Seat, planar, for pediatric size wheelchair including fixed attaching hardware
E2293	Back, contoured, for pediatric size wheelchair including fixed attaching hardware
E2294	Seat, contoured, for pediatric size wheelchair including fixed attaching hardware
E2295	Manual wheelchair accessory, for pediatric size wheelchair, dynamic seating frame, allows coordinated movement of multiple positioning features
E2300	Power wheelchair accessory, power seat elevation system
E2301	Power wheelchair accessory, power standing system
E2310	Power wheelchair accessory, electronic connection between wheelchair controller and one power seating system motor, including all related electronics, indicator feature, mechanical function selection switch, and fixed mounting hardware



E2311	Power wheelchair accessory, electronic connection between wheelchair controller and two or more power seating system motors, including all related electronics, indicator feature, mechanical function selection switch, and fixed mounting hardware
E2312	Power wheelchair accessory, hand or chin control interface, mini-proportional remote joystick, proportional, including fixed mounting hardware
E2313	Power wheelchair accessory, harness for upgrade to expandable controller, including all fasteners, connectors and mounting hardware, each
E2321	Power wheelchair accessory, hand control interface, remote joystick, nonproportional, including all related electronics, mechanical stop switch, and fixed mounting hardware
E2322	Power wheelchair accessory, hand control interface, multiple mechanical switches, nonproportional, including all related electronics, mechanical stop switch, and fixed mounting hardware
E2323	Power wheelchair accessory, specialty joystick handle for hand control interface, prefabricated
E2324	Power wheelchair accessory, chin cup for chin control interface
E2325	Power wheelchair accessory, sip and puff interface, nonproportional, including all related electronics, mechanical stop switch, and manual swingaway mounting hardware
E2326	Power wheelchair accessory, breath tube kit for sip and puff interface

E2327	Power wheelchair accessory, head control interface, mechanical, proportional, including all related electronics, mechanical direction change switch, and fixed mounting hardware
E2328	Power wheelchair accessory, head control or extremity control interface, electronic, proportional, including all related electronics and fixed mounting hardware
E2329	Power wheelchair accessory, head control interface, contact switch mechanism, nonproportional, including all related electronics, mechanical stop switch, mechanical direction change switch, head array, and fixed mounting hardware
E2330	Power wheelchair accessory, head control interface, proximity switch mechanism, nonproportional, including all related electronics, mechanical stop switch, mechanical direction change switch, head array, and fixed mounting hardware
E2331	Power wheelchair accessory, attendant control, proportional, including all related electronics and fixed mounting hardware
E2340	Power wheelchair accessory, nonstandard seat frame width, 20-23 inches
E2341	Power wheelchair accessory, nonstandard seat frame width, 24-27 inches
E2342	Power wheelchair accessory, nonstandard seat frame depth, 20 or 21 inches
E2343	Power wheelchair accessory, nonstandard seat frame depth, 22-25 inches
E2351	Power wheelchair accessory, electronic interface to operate speech generating device using power wheelchair control interface
E2358	Power wheelchair accessory, group 34 non-sealed lead acid battery, each
E2359	Power wheelchair accessory, group 34 sealed lead acid battery, each (eg, gel cell, absorbed glassmat)

E2360	Power wheelchair accessory, 22 nf non-sealed lead acid battery, each
E2361	Power wheelchair accessory, 22 nf sealed lead acid battery, each (eg, gel cell, absorbed glassmat)
E2362	Power wheelchair accessory, group 24 non-sealed lead acid battery, each
E2363	Power wheelchair accessory, group 24 sealed lead acid battery, each (eg, gel cell, absorbed glassmat)
E2364	Power wheelchair accessory, u-1 non-sealed lead acid battery, each
E2365	Power wheelchair accessory, u-1 sealed lead acid battery, each (eg, gel cell, absorbed glassmat)
E2366	Power wheelchair accessory, battery charger, single mode, for use with only one battery type, sealed or non-sealed, each
E2367	Power wheelchair accessory, battery charger, dual mode, for use with either battery type, sealed or non-sealed, each
E2368	Power wheelchair component, motor, replacement only
E2369	Power wheelchair component, gear box, replacement only
E2370	Power wheelchair component, motor and gear box combination, replacement only
E2371	Power wheelchair accessory, group 27 sealed lead acid battery (eg, gel cell, absorbed glassmat), each
E2372	Power wheelchair accessory, group 27 non-sealed lead acid battery, each
E2373	Power wheelchair accessory, hand or chin control interface, compact remote joystick, proportional, including fixed mounting hardware

E2374	Power wheelchair accessory, hand or chin control interface, standard remote joystick (not including controller), proportional, including all related electronics and fixed mounting hardware, replacement only
E2375	Power wheelchair accessory, non-expandable controller, including all related electronics and mounting hardware, replacement only
E2376	Power wheelchair accessory, expandable controller, including all related electronics and mounting hardware, replacement only
E2377	Power wheelchair accessory, expandable controller, including all related electronics and mounting hardware, upgrade provided at initial issue
E2381	Power wheelchair accessory, pneumatic drive wheel tire, any size, replacement only, each
E2382	Power wheelchair accessory, tube for pneumatic drive wheel tire, any size, replacement only, each
E2383	Power wheelchair accessory, insert for pneumatic drive wheel tire (removable), any type, any size, replacement only, each
E2384	Power wheelchair accessory, pneumatic caster tire, any size, replacement only, each
E2385	Power wheelchair accessory, tube for pneumatic caster tire, any size, replacement only, each
E2386	Power wheelchair accessory, foam filled drive wheel tire, any size, replacement only, each
E2387	Power wheelchair accessory, foam filled caster tire, any size, replacement only, each
E2388	Power wheelchair accessory, foam drive wheel tire, any size, replacement only, each

E2389	Power wheelchair accessory, foam caster tire, any size, replacement only, each
E2390	Power wheelchair accessory, solid (rubber/plastic) drive wheel tire, any size, replacement only, each
E2391	Power wheelchair accessory, solid (rubber/plastic) caster tire (removable), any size, replacement only, each
E2392	Power wheelchair accessory, solid (rubber/plastic) caster tire with integrated wheel, any size, replacement only, each
E2393	Deleted 12/31/2009: Power wheelchair accessory, valve for pneumatic tire tube, any type, replacement only, each
E2394	Power wheelchair accessory, drive wheel excludes tire, any size, replacement only, each
E2395	Power wheelchair accessory, caster wheel excludes tire, any size, replacement only, each
E2396	Power wheelchair accessory, caster fork, any size, replacement only, each
E2397	Power wheelchair accessory, lithium-based battery, each
E2605	Positioning wheelchair seat cushion, width less than 22 inches, any depth
E2606	Positioning wheelchair seat cushion, width 22 inches or greater, any depth
E2609	Custom fabricated wheelchair seat cushion, any size
E2610	Wheelchair seat cushion, powered
E2619	Replacement cover for wheelchair seat cushion or back cushion, each
K0001	Standard wheelchair
K0002	Standard hemi (low seat) wheelchair

K0003	Lightweight wheelchair
K0004	High strength, lightweight wheelchair
K0005	Ultralightweight wheelchair
K0006	Heavy duty wheelchair
K0007	Extra heavy duty wheelchair
K0009	Other manual wheelchair/base
K0010	Standard-weight frame motorized/power wheelchair
K0011	Standard-weight frame motorized/power wheelchair with programmable control parameters for speed adjustment, tremor dampening, acceleration control and braking
K0012	Lightweight portable motorized/power wheelchair
K0014	Other motorized/power wheelchair base
K0098	Drive belt for power wheelchair
K0669	Wheelchair accessory, wheelchair seat or back cushion, does not meet specific code criteria or no written coding verification from dme pdac
K0733	Power wheelchair accessory, 12 to 24 amp hour sealed lead acid battery, each (eg, gel cell, absorbed glassmat)
K0813	Power wheelchair, group 1 standard, portable, sling/solid seat and back, patient weight capacity up to and including 300 pounds
K0814	Power wheelchair, group 1 standard, portable, captains chair, patient weight capacity up to and including 300 pounds

K0815	Power wheelchair, group 1 standard, sling/solid seat and back, patient weight capacity up to and including 300 pounds
K0816	Power wheelchair, group 1 standard, captains chair, patient weight capacity up to and including 300 pounds
K0820	Power wheelchair, group 2 standard, portable, sling/solid seat/back, patient weight capacity up to and including 300 pounds
K0821	Power wheelchair, group 2 standard, portable, captains chair, patient weight capacity up to and including 300 pounds
K0822	Power wheelchair, group 2 standard, sling/solid seat/back, patient weight capacity up to and including 300 pounds
K0823	Power wheelchair, group 2 standard, captains chair, patient weight capacity up to and including 300 pounds
K0824	Power wheelchair, group 2 heavy duty, sling/solid seat/back, patient weight capacity 301 to 450 pounds
K0825	Power wheelchair, group 2 heavy duty, captains chair, patient weight capacity 301 to 450 pounds
K0826	Power wheelchair, group 2 very heavy duty, sling/solid seat/back, patient weight capacity 451 to 600 pounds
K0827	Power wheelchair, group 2 very heavy duty, captains chair, patient weight capacity 451 to 600 pounds
K0828	Power wheelchair, group 2 extra heavy duty, sling/solid seat/back, patient weight capacity 601 pounds or more

K0829	Power wheelchair, group 2 extra heavy duty, captains chair, patient weight 601 pounds or more
K0830	Power wheelchair, group 2 standard, seat elevator, sling/solid seat/back, patient weight capacity up to and including 300 pounds
K0831	Power wheelchair, group 2 standard, seat elevator, captains chair, patient weight capacity up to and including 300 pounds
K0835	Power wheelchair, group 2 standard, single power option, sling/solid seat/back, patient weight capacity up to and including 300 pounds
K0836	Power wheelchair, group 2 standard, single power option, captains chair, patient weight capacity up to and including 300 pounds
K0837	Power wheelchair, group 2 heavy duty, single power option, sling/solid seat/back, patient weight capacity 301 to 450 pounds
K0838	Power wheelchair, group 2 heavy duty, single power option, captains chair, patient weight capacity 301 to 450 pounds
K0839	Power wheelchair, group 2 very heavy duty, single power option sling/solid seat/back, patient weight capacity 451 to 600 pounds
K0840	Power wheelchair, group 2 extra heavy duty, single power option, sling/solid seat/back, patient weight capacity 601 pounds or more
K0841	Power wheelchair, group 2 standard, multiple power option, sling/solid seat/back, patient weight capacity up to and including 300 pounds
K0842	Power wheelchair, group 2 standard, multiple power option, captains chair, patient weight capacity up to and including 300 pounds



K0843	Power wheelchair, group 2 heavy duty, multiple power option, sling/solid seat/back, patient weight capacity 301 to 450 pounds
K0848	Power wheelchair, group 3 standard, sling/solid seat/back, patient weight capacity up to and including 300 pounds
K0849	Power wheelchair, group 3 standard, captains chair, patient weight capacity up to and including 300 pounds
K0850	Power wheelchair, group 3 heavy duty, sling/solid seat/back, patient weight capacity 301 to 450 pounds
K0851	Power wheelchair, group 3 heavy duty, captains chair, patient weight capacity 301 to 450 pounds
K0852	Power wheelchair, group 3 very heavy duty, sling/solid seat/back, patient weight capacity 451 to 600 pounds
K0853	Power wheelchair, group 3 very heavy duty, captains chair, patient weight capacity 451 to 600 pounds
K0854	Power wheelchair, group 3 extra heavy duty, sling/solid seat/back, patient weight capacity 601 pounds or more
K0855	Power wheelchair, group 3 extra heavy duty, captains chair, patient weight capacity 601 pounds or more
K0856	Power wheelchair, group 3 standard, single power option, sling/solid seat/back, patient weight capacity up to and including 300 pounds
K0857	Power wheelchair, group 3 standard, single power option, captains chair, patient weight capacity up to and including 300 pounds

K0858	Power wheelchair, group 3 heavy duty, single power option, sling/solid seat/back, patient weight 301 to 450 pounds
K0859	Power wheelchair, group 3 heavy duty, single power option, captains chair, patient weight capacity 301 to 450 pounds
K0860	Power wheelchair, group 3 very heavy duty, single power option, sling/solid seat/back, patient weight capacity 451 to 600 pounds
K0861	Power wheelchair, group 3 standard, multiple power option, sling/solid seat/back, patient weight capacity up to and including 300 pounds
K0862	Power wheelchair, group 3 heavy duty, multiple power option, sling/solid seat/back, patient weight capacity 301 to 450 pounds
K0863	Power wheelchair, group 3 very heavy duty, multiple power option, sling/solid seat/back, patient weight capacity 451 to 600 pounds
K0864	Power wheelchair, group 3 extra heavy duty, multiple power option, sling/solid seat/back, patient weight capacity 601 pounds or more
K0868	Power wheelchair, group 4 standard, sling/solid seat/back, patient weight capacity up to and including 300 pounds
K0869	Power wheelchair, group 4 standard, captains chair, patient weight capacity up to and including 300 pounds
K0870	Power wheelchair, group 4 heavy duty, sling/solid seat/back, patient weight capacity 301 to 450 pounds
K0871	Power wheelchair, group 4 very heavy duty, sling/solid seat/back, patient weight capacity 451 to 600 pounds

K0877	Power wheelchair, group 4 standard, single power option, sling/solid seat/back, patient weight capacity up to and including 300 pounds
K0878	Power wheelchair, group 4 standard, single power option, captains chair, patient weight capacity up to and including 300 pounds
K0879	Power wheelchair, group 4 heavy duty, single power option, sling/solid seat/back, patient weight capacity 301 to 450 pounds
K0880	Power wheelchair, group 4 very heavy duty, single power option, sling/solid seat/back, patient weight 451 to 600 pounds
K0884	Power wheelchair, group 4 standard, multiple power option, sling/solid seat/back, patient weight capacity up to and including 300 pounds
K0885	Power wheelchair, group 4 standard, multiple power option, captains chair, patient weight capacity up to and including 300 pounds
K0886	Power wheelchair, group 4 heavy duty, multiple power option, sling/solid seat/back, patient weight capacity 301 to 450 pounds
K0890	Power wheelchair, group 5 pediatric, single power option, sling/solid seat/back, patient weight capacity up to and including 125 pounds
K0891	Power wheelchair, group 5 pediatric, multiple power option, sling/solid seat/back, patient weight capacity up to and including 125 pounds
K0898	Power wheelchair, not otherwise classified
<b>BILATERAL ASSISTANCE</b>	
E2207	Wheelchair accessory, crutch and cane holder, each
A4635	Underarm pad, crutch, replacement, each

A4636	Replacement, handgrip, cane, crutch, or walker, each
A4637	Replacement, tip, cane, crutch, walker, each
E0100	Cane, includes canes of all materials, adjustable or fixed, with tip
E0105	Cane, quad or three prong, includes canes of all materials, adjustable or fixed, with tips
E0110	Crutches, forearm, includes crutches of various materials, adjustable or fixed, pair, complete with tips and handgrips
E0111	Crutch forearm, includes crutches of various materials, adjustable or fixed, each, with tip and handgrips
E0112	Crutches underarm, wood, adjustable or fixed, pair, with pads, tips and handgrips
E0113	Crutch underarm, wood, adjustable or fixed, each, with pad, tip and handgrip
E0114	Crutches underarm, other than wood, adjustable or fixed, pair, with pads, tips and handgrips
E0116	Crutch, underarm, other than wood, adjustable or fixed, with pad, tip, handgrip, with or without shock absorber, each
E0117	Crutch, underarm, articulating, spring assisted, each
E0118	Crutch substitute, lower leg platform, with or without wheels, each
E0130	Walker, rigid (pickup), adjustable or fixed height
E0135	Walker, folding (pickup), adjustable or fixed height
E0140	Walker, with trunk support, adjustable or fixed height, any type
E0141	Walker, rigid, wheeled, adjustable or fixed height
E0143	Walker, folding, wheeled, adjustable or fixed height

E0144	Walker, enclosed, four sided framed, rigid or folding, wheeled with posterior seat
E0147	Walker, heavy duty, multiple braking system, variable wheel resistance
E0148	Walker, heavy duty, without wheels, rigid or folding, any type, each
E0149	Walker, heavy duty, wheeled, rigid or folding, any type