

Mobility Disability (v1)
Definition Fact Sheet & Technical Brief

Authors: Margaret Nilz, MPH¹; Erika Austhof, PhD, MPH²; Kelley G. Chester, DrPH MPH JM³; Josh Levy⁴; Robyn A. Cree, PhD⁵; Allison Wray, MPH⁶; Joseph Holbrook, PhD, MPH⁵; Qi Cheng, PhD⁵; Qing Zhang, PhD, MD⁵; Catherine E. Rice PhD⁵; Sandra Gonzalez, PhD MPH⁷; Jessica Schultz MPH⁸; Lakshmi Radhakrishnan, MPH⁹; Zachary Stein, MPH⁹; Adrianna Evans, MPH¹

Author Affiliations: ¹Association of State and Territorial Health Officials; ²Aengle Consulting LLC; ³Thought Bridge LLC; ⁴Levy Informatics; ⁵National Center on Birth Defects and Developmental Disabilities, US Centers for Disease Control and Prevention; ⁶Oak Ridge Institute for Science and Education; ⁷Colorado Department of Public Health & Environment Electronic and Disease Reporting Branch; ⁸Tennessee Department of Health; ⁹Office of Public Health Data, Surveillance, and Technology, US Centers for Disease Control and Prevention

Acknowledgements: We extend our heartfelt gratitude to the Council of State and Territorial Epidemiologists' National Syndromic Surveillance Program Community of Practice, the MA Department of Public Health for sharing a list of ICD codes associated with disability, and all scientific panel participants for their invaluable contributions in crafting these comprehensive syndromic surveillance definitions to identify emergency department visits by people with disabilities.

Points of contact:

Robyn Cree, PhD (nru7@cdc.gov) – CDC/NCBDDD

Joseph Holbrook, PhD (vzt4@cdc.gov) – CDC/NCBDDD

Definition Description: The Mobility Disability (v1) definition is part of a group of eight definitions (seven domain-specific and one overall) to identify emergency department visits by people with disabilities using a set of criteria based on diagnostic codes, including ICD-9, ICD-10, SNOMED codes, and keywords representing patient reason for visit. These definitions can be used to disaggregate monitored health outcomes by disability status and type and will ultimately help improve emergency and ongoing surveillance efforts. We encourage National Syndromic Surveillance Program (NSSP) Community of Practice (CoP) members to work with disability organizations and members of the disability community within their jurisdictions when using the definitions, interpreting results, and developing recommendations based on these findings. This definition was tested and intended to run on the “CC and DD parsed free text” field in ESSENCE.

New or Revised Definition: New Definition

Date Added to ESSENCE: February 2025

Use-Cases for Definition:

Case-finding: Not Intended as Use Case

Trend monitoring: Primary

Early outbreak detection: Not Intended as Use Case

Emergent Condition: Not Intended as Use Case

Justification: Information on disability status and type are not systematically collected during health encounters, and, as such, monitored health outcomes cannot currently be disaggregated by this demographic. Identifying people with disabilities using definitions for syndromic surveillance could bolster ongoing surveillance before, during, and after emergencies. It could also improve national, state, and local capacity to respond to, detect, understand, and monitor health events among people with disabilities during emergencies.

Data Source During Development: Emergency department visits

Validation Methods: The Association of State and Territorial Health Officials (ASTHO) worked collaboratively with CDC and the Council of State and Territorial Epidemiologists (CSTE)-led NSSP CoP to create diagnostic code-based definitions to identify emergency department visits from people with disabilities through a stakeholder-informed process. ASTHO, with support from Thought Bridge LLC, collected stakeholder feedback through a two-step process to inform the development of diagnostic code- and chief complaint-based definitions for disability to be used in NSSP. This two-step process included key informant interviews (KIIs) followed by five scientific panel sessions to inform definition development and broader dissemination efforts to promote uptake of the definitions. See Overall Disability (v1) Definition Fact Sheet & Technical Brief for a full description of definition development methods.

We used the following developed definitions from the CCW to develop the mobility domain accessible here: [Other Chronic Health, Mental Health, and Potentially Disabling Conditions - Chronic Conditions Data Warehouse \(ccwdata.org\)](https://ccwdata.org). If only ICD-10 was available in a definition, we used the prior versions for ICD-9:

- Fibromyalgia, Chronic Pain and Fatigue
- Mobility Impairments
- Multiple Sclerosis and Transverse Myelitis
- Muscular Dystrophy
- Spina Bifida and Other Congenital Anomalies of the Nervous System
- Spinal Cord Injury

Using this initial set of codes, we abstracted relevant ICD-10 codes following inclusion criteria. Additional codes were collected from an ongoing project at the Massachusetts Department of Health, Office of Health Equity. Many of these codes overlapped with the existing CCW definition. Keywords were developed from feedback following the third and fourth scientific panels, and from keywords included in the Washington Group Short Set related to mobility. Following state and local pilot testing, we excluded additional terms and excluded specific ICD-10 codes that were leading to false positive results.

A summary of documented changes made during each step of the development process is included in Table 3. We have also created an Excel sheet with all codes and chief complaints included in this definition as an appendix. The definition domain fact sheets offer versatile guidance, allowing users to employ them individually or collectively as a whole definition of disability based on the objectives of the jurisdiction. Utilizing the accompanying Excel sheets enables a comprehensive understanding of the conditions included within each domain.

This project was supported by the Centers for Disease Control and Prevention of the U.S. Department of Health and Human Services (HHS) as part of a financial assistance award totaling \$650,000 with 100 percent funded by CDC/HHS. The contents are those of the author(s) and do not necessarily represent the official views of, nor an endorsement, by CDC/HHS, the U.S. Government, Government, the California Department of Public Health or the California Health and Human Services Agency.

Validation Results: Jurisdictions found that this definition was broadly able to capture the intended cases. Several false positives were identified, including chronic pain without indication of mobility disability and acute conditions relating to minor injuries, myalgia related to respiratory infections and pain related to skin infections. The mobility disability definition was tested nationally and by two states: TN and CO. Jurisdictions partnering with CDC and ASTHO to pilot this definition saw a positive predictive value (PPV) of 74% for TN and 32% for CO. Due to false positive results, the following terms were added to exclusions: CELLULITIS, muscle weakness, sprain AND ankle, shoulder, wrist, knee, or thumb as well as “chills”, “fever”, or “generalized body aches”. ICD codes S43.109A, S43.004A, S43.409A, M79.10, M62.838, M62.81 were removed from the definition. As a result of the low jurisdiction PPV, validation on this definition was conducted again at the national level following the conclusion of final definition revisions. Following edits made following jurisdiction testing and the second round of national-level testing, PPV at the national level was 91.7%. Several additional improvements were made following calculation of PPV at the national

level, such as removal of diagnostic codes associated with acute injuries (e.g., S32 codes: Fracture of lumbar spine and pelvis; S43 codes: Dislocation, sprain and strain of joints and ligaments of shoulder girdle) and chief complaint DRIVING (pulled difficulty with other things while driving to hospital; also pulling car accidents); therefore, PPV is likely higher.

Limitations: This definition has some limitations, including some false positives that remain (though infrequently).

Additionally, there are at least five limitations common to the Disability Overall (v1) definition and all seven disability domain-specific definitions. First, identifying people with disabilities as a demographic using diagnostic codes follows a medical model of disability, and does not capture the social or identity-based aspects of disability preferred by many disability advocates. However, NSSP-ESSENCE is limited by the information routinely collected in the medical record such as diagnostic codes and notes captured as “chief complaint” to document presenting medical and relevant information for the visit. Future efforts to also include self- or other-report of functional disability collected as a demographic at the point of care may inform refinements to these definitions. Second, diagnostic codes do not map directly to functional limitations and a person may have more than one disability type, yet only discuss certain chief complaints during an ED visit. However, we can assume that certain conditions can be reasonably expected to produce functional limitations (e.g., someone with muscular dystrophy could reasonably be categorized as having a mobility disability). Third, coding practices can vary by region, hospital, and provider. Fourth, this method depends on factors outside the provider’s control (billing considerations; EMR systems such as Epic or Cerner may have limits on how many dx codes can be listed under a visit). As a definition that is dependent on secondary diagnosis codes for detection not necessarily captured by the chief complaint, the ability to identify a person with a disability is influenced by the number of diagnosis codes a facility submits for syndromic surveillance. Therefore, this definition may be better able to identify people with disabilities in better resourced facilities, while data from lower cost EMR systems may be more likely to underrepresent the disability community. Fifth, many people with disabilities will be missed using this method as it relies on existing data collected on electronic health records (EHR), rather than standard self-reported questions that are commonly used to identify people with disabilities. People presenting to an emergency department for a health crisis or emergency may not have disability-related diagnoses indicated on their EHR, because their disability was not recognized by the provider and/or disclosed by the patient. Mild (or non-apparent) disabilities and/or disabilities unrelated to the reason for the ED visit may be more frequently under-documented than more apparent disabilities or those directly associated with the reason for visit.

The definitions can be used to identify important trends and serve as a “signal” of group variation for key outcomes of interest. However, NSSP users must be aware that results are likely an incomplete indicator of disability status or type. Despite limitations, these definitions can help serve as a stopgap to identify people with disabilities within NSSP-ESSENCE while we work collectively to address systemic issues related to collecting disability as a demographic at the point of care.

Definition Fields and Structure: Mobility-related disability, including unique chief complaint terms and diagnostic codes.

Detailed Definition Components

Table 1. Inclusion and exclusion terms based on a case definition using mobility disability-specific discharge diagnosis codes, Mobility Disability (v1) definition

Variable Type	Terms	Description (Diagnosis Codes Only)
Inclusions		
Discharge Diagnosis: ICD-10- CM	A81.00, A81.01, A81.09, A81.1, A81.2, A81.81, A81.82, A81.83, A81.89, A81.9, G10, G11.0, G11.10, G11.11, G11.19, G11.2, G11.3, G11.4, G11.8, G11.9, G13.0, G13.1, G13.2, G13.8, G23.1, I68.0	Neurodegenerative disorders of the CNS (e.g. Huntington's disease, Friedrich's ataxia, and spinocerebellar degeneration)
	E34.31, E45, N25.0, Q77.1, Q77.4, Q77.8	Dwarfism
	G04.1	Tropical spastic paraplegia
	G11.4	Hereditary spastic paraplegia
	G12.0, G12.1, G12.20, G12.21, G12.22, G12.23, G12.24, G12.25, G12.29, G12.8, G12.9	Spinal muscular atrophy and related syndromes
	G12.21	Amyotrophic lateral sclerosis (ALS)
	G24.1, G24.2, G24.3, G24.4, G24.5, G24.8, G24.9	Dystonia
	G35	Multiple sclerosis
	G36.0	Neuromyelitis optica
	G36.1	Acute and subacute hemorrhagic leukoencephalitis [Hurst]
	G36.8	Other specified acute disseminated demyelination
	G36.9	Acute disseminated demyelination, unspecified
	G37.1	Central demyelination of corpus callosum
	G37.1, G37.2, G37.8	Idiopathic transverse myelitis
	G37.2	Central pontine myelinolysis
	G37.3	Acute transverse myelitis in demyelinating disease of central nervous system
	G37.4	Subacute necrotizing myelitis of central nervous system
	G37.8	Other specified demyelinating diseases of central nervous system
	G37.9	Demyelinating disease of central nervous system, unspecified
	G60.0	Charcot-Marie-Tooth disease & related syndromes
	G60.3	Idiopathic progressive neuropathy
	G60.8, G60.9	Inherited sensory neuropathies
	G61.81, G61.82, G61.89, G61.9, G65.1, G65.2	Inflammatory polyneuropathy, other or unspecified
	G71.0	Hereditary progressive muscular dystrophy
	G71.0	Muscular dystrophy
	G71.00	Muscular dystrophy, unspecified
	G71.01	Duchenne or Becker muscular dystrophy
	G71.02	Facioscapulohumeral muscular dystrophy

G71.09	Other specified muscular dystrophies
G71.11	Myotonic muscular dystrophy
G71.2	Congenital myopathies
G81.00	Flaccid hemiplegia and hemiparesis affecting unspecified side
G81.01, 81.02	Flaccid hemiplegia and hemiparesis affecting dominant side
G81.03, 81.04	Flaccid hemiplegia and hemiparesis affecting nondominant side
G81.10	Spastic hemiplegia and hemiparesis affecting unspecified side
G81.11, 81.12	Spastic hemiplegia and hemiparesis affecting dominant side
G81.13, 81.14	Spastic hemiplegia and hemiparesis affecting nondominant side
G81.90	Hemiplegia, unspecified, affecting unspecified side
G81.91, 81.92	Hemiplegia, unspecified, affecting dominant side
G81.93, 81.94	Hemiplegia, unspecified, affecting nondominant side
G82.20, G82.21, G82.22	Paraplegia
G82.50	Quadriplegia, unspecified
G82.51	Quadriplegia, C1-C4, complete
G82.52	Quadriplegia, C1-C4, incomplete
G82.53	Quadriplegia, C5-C7, complete
G82.54	Quadriplegia, C5-C7, incomplete
G83.0	Diplegia of upper limbs
G83.10	Monoplegia of lower limb affecting unspecified side
G83.11, 83.12	Monoplegia of lower limb affecting dominant side
G83.13, 83.14	Monoplegia of lower limb affecting nondominant side
G83.20	Monoplegia of upper limb affecting unspecified side
G83.21, 83.22	Monoplegia of upper limb affecting dominant side
G83.23, 83.24	Monoplegia of upper limb affecting nondominant side
G83.30, G83.31, G83.32, G83.33, G83.34	Unspecified monoplegia
G83.4	Cauda equina syndrome without mention of neurogenic bladder
G83.5	Locked-in state
G83.81, G83.82, G83.83, G83.84, G83.89	Other specified paralytic syndrome
G83.9	Paralysis, unspecified
G89.21	Chronic pain due to trauma
G89.22	Chronic post-thoracotomy pain
G89.28	Other chronic postprocedural pain
G89.29	Other chronic pain
G89.3	Neoplasm related pain (acute) (chronic)
G89.4	Chronic pain syndrome
G90.1	Familial dysautonomia [Riley-Day]

G96.11	Dural tear
I69.031, I69.032, I69.033, I69.034, I69.039	Monoplegia of upper limb following nontraumatic subarachnoid hemorrhage
I69.041, I69.042, I69.043, I69.044, I69.049	Monoplegia of lower limb following nontraumatic subarachnoid hemorrhage
I69.051, I69.052, I69.053, I69.054, I69.059	Hemiplegia and hemiparesis following nontraumatic subarachnoid hemorrhage
I69.061, I69.062, I69.063, I69.064, I69.065, I69.069	Other paralytic syndrome following nontraumatic subarachnoid hemorrhage
I69.131, I69.132, I69.133, I69.134, I69.139, I69.141, I69.142, I69.143, I69.144, I69.149, I69.151, I69.152, I69.153, I69.154, I69.159, I69.161, I69.162, I69.163, I69.164, I69.165, I69.169	Sequelae of nontraumatic intracerebral hemorrhage
I69.231, I69.232, I69.233, I69.234, I69.239, I69.241, I69.242, I69.243, I69.244, I69.249, I69.251, I69.252, I69.253, I69.254, I69.259, I69.261, I69.262, I69.263, I69.264, I69.265, I69.269	Sequelae of other nontraumatic intracranial hemorrhage
I69.331, I69.332, I69.333, I69.334, I69.339, I69.341, I69.342, I69.343, I69.344, I69.349, I69.351, I69.352, I69.353, I69.354, I69.359, I69.361, I69.362, I69.363, I69.364, I69.365, I69.369	Sequelae of cerebral infarction
I69.831, I69.832, I69.833, I69.834, I69.839, I69.841, I69.842, I69.843, I69.844, I69.849, I69.851, I69.852, I69.853, I69.854, I69.859, I69.861, I69.862, I69.863, I69.864, I69.865, I69.869	Sequelae of other cerebrovascular diseases
I69.931, 69.932	Late effects of cerebrovascular disease, monoplegia of upper limb affecting dominant side
I69.933, 69.934	Late effects of cerebrovascular disease, monoplegia of upper limb affecting nondominant side
I69.939	Late effects of cerebrovascular disease, monoplegia of upper limb affecting unspecified side
I69.941, 69.942	Late effects of cerebrovascular disease, monoplegia of lower limb affecting dominant side
I69.943, 69.944	Late effects of cerebrovascular disease, monoplegia of lower limb affecting nondominant side
I69.949	Late effects of cerebrovascular disease, monoplegia of lower limb affecting unspecified side
I69.951, 69.952	Late effects of cerebrovascular disease, hemiplegia affecting dominant side

I69.953, 69.954	Late effects of cerebrovascular disease, hemiplegia affecting nondominant side
I69.959	Late effects of cerebrovascular disease, hemiplegia affecting unspecified side
I69.961, 69.962	Late effects of cerebrovascular disease, other paralytic syndrome affecting dominant side
I69.963, 69.964	Late effects of cerebrovascular disease, other paralytic syndrome affecting nondominant side
I69.965	Late effects of cerebrovascular disease, other paralytic syndrome, bilateral
I69.969	Late effects of cerebrovascular disease, other paralytic syndrome affecting unspecified side
M05.00, M05.011, M05.012, M05.019, M05.021, M05.022, M05.029, M05.031, M05.032, M05.039, M05.041, M05.042, M05.049, M05.051, M05.052, M05.059, M05.061, M05.062, M05.069, M05.071, M05.072, M05.079, M05.09	Felty's syndrome
M05.20, M05.211, M05.212, M05.219, M05.221, M05.222, M05.229, M05.231, M05.232, M05.239, M05.241, M05.242, M05.249, M05.251, M05.252, M05.259, M05.261, M05.262, M05.269, M05.271, M05.272, M05.279, M05.29	Rheumatoid vasculitis with rheumatoid arthritis
M05.30, M05.311, M05.312, M05.319, M05.321, M05.322, M05.329, M05.331, M05.332, M05.339, M05.341, M05.342, M05.349, M05.351, M05.352, M05.359, M05.361, M05.362, M05.369, M05.371, M05.372, M05.379, M05.39	Rheumatoid heart disease with rheumatoid arthritis
M05.40, M05.411, M05.412, M05.419, M05.421, M05.422, M05.429, M05.431, M05.432, M05.439, M05.441, M05.442, M05.449, M05.451, M05.452, M05.459, M05.461, M05.462, M05.469, M05.471, M05.472, M05.479, M05.49	Rheumatoid myopathy with rheumatoid arthritis
M05.50, M05.511, M05.512, M05.519, M05.521, M05.522, M05.529, M05.531, M05.532, M05.539, M05.541, M05.542, M05.549, M05.551, M05.552, M05.559, M05.561, M05.562, M05.569, M05.571, M05.572, M05.579, M05.59	Rheumatoid polyneuropathy with rheumatoid arthritis
M05.60, M05.611, M05.612, M05.619, M05.621, M05.622, M05.629, M05.631, M05.632, M05.639, M05.641, M05.642, M05.649, M05.651, M05.652, M05.659, M05.661, M05.662, M05.669, M05.671, M05.672, M05.679, M05.69	Rheumatoid arthritis with involvement of other organs and systems
M05.70, M05.711, M05.712, M05.719, M05.721, M05.722, M05.729, M05.731, M05.732, M05.739, M05.741, M05.742, M05.749, M05.751, M05.752, M05.759, M05.761, M05.762, M05.769, M05.771, M05.772, M05.779, M05.79, M05.7A	Rheumatoid arthritis with rheumatoid factor without organ or systems involvement
M05.80, M05.811, M05.812, M05.819, M05.821, M05.822, M05.829, M05.831, M05.832, M05.839,	Other rheumatoid arthritis with rheumatoid factor

M05.841, M05.842, M05.849, M05.851, M05.852, M05.859, M05.861, M05.862, M05.869, M05.871, M05.872, M05.879, M05.89, M05.8A	
M05.9	Rheumatoid arthritis with rheumatoid factor, unspecified
M06.00, M06.011, M06.012, M06.019, M06.021, M06.022, M06.029, M06.031, M06.032, M06.039, M06.041, M06.042, M06.049, M06.051, M06.052, M06.059, M06.061, M06.062, M06.069, M06.071, M06.072, M06.079, M06.08, M06.09, M06.0A	Rheumatoid arthritis without rheumatoid factor
M06.1	Adult-onset Still's disease
M06.20, M06.211, M06.212, M06.219, M06.221, M06.222, M06.229, M06.231, M06.232, M06.239, M06.241, M06.242, M06.249, M06.251, M06.252, M06.259, M06.261, M06.262, M06.269, M06.271, M06.272, M06.279, M06.28, M06.29	Rheumatoid bursitis
M06.30, M06.311, M06.312, M06.319, M06.321, M06.322, M06.329, M06.331, M06.332, M06.339, M06.341, M06.342, M06.349, M06.351, M06.352, M06.359, M06.361, M06.362, M06.369, M06.371, M06.372, M06.379, M06.38, M06.39	Rheumatoid nodule
M06.4, M46.9	Inflammatory arthritis
M06.80, M06.811, M06.812, M06.819, M06.821, M06.822, M06.829, M06.831, M06.832, M06.839, M06.841, M06.842, M06.849, M06.851, M06.852, M06.859, M06.861, M06.862, M06.869, M06.871, M06.872, M06.879, M06.88, M06.89, M06.8A	Other specified rheumatoid arthritis
M06.9	Rheumatoid arthritis, unspecified
M08.00, M08.011, M08.012, M08.019, M08.021, M08.022, M08.029, M08.031, M08.032, M08.039, M08.041, M08.042, M08.049, M08.051, M08.052, M08.059, M08.061, M08.062, M08.069, M08.071, M08.072, M08.079, M08.08, M08.09, M08.0A	Juvenile arthritis
M08.1	Juvenile ankylosing spondylitis
M08.1, M08.20, M08.211, M08.212, M08.219, M08.221, M08.222, M08.229, M08.231, M08.232, M08.239, M08.241, M08.242, M08.249, M08.251, M08.252, M08.259, M08.261, M08.262, M08.269, M08.271, M08.272, M08.279, M08.28, M08.29, M08.2A	Juvenile rheumatoid arthritis with systemic onset
M08.3	Juvenile rheumatoid polyarthritis (seronegative)
M08.40, M08.411, M08.412, M08.419, M08.421, M08.422, M08.429, M08.431, M08.432, M08.439, M08.441, M08.442, M08.449, M08.451, M08.452, M08.459, M08.461, M08.462, M08.469, M08.471, M08.472, M08.479, M08.48, M08.4A	Pauciarticular juvenile rheumatoid arthritis
M08.80, M08.811, M08.812, M08.819, M08.821, M08.822, M08.829, M08.831, M08.832, M08.839, M08.841, M08.842, M08.849, M08.851, M08.852, M08.859, M08.861, M08.862, M08.869, M08.871, M08.872, M08.879, M08.88, M08.89	Other juvenile arthritis
M08.90, M08.911, M08.912, M08.919, M08.921, M08.922, M08.929, M08.931, M08.932, M08.939, M08.941, M08.942, M08.949, M08.951, M08.952,	Juvenile arthritis, unspecified

M08.959, M08.961, M08.962, M08.969, M08.971, M08.972, M08.979, M08.98, M08.99, M08.9A	
M12.00	Chronic postrheumatic arthropathy [Jaccoud], unspecified site
M15.0	Primary generalized (osteo)arthritis
M15.1	Heberden's nodes (with arthropathy)
M15.2	Bouchard's nodes (with arthropathy)
M15.3	Secondary multiple arthritis
M15.4	Erosive (osteo)arthritis
M15.8	Other polyosteoarthritis
M15.9	Polyosteoarthritis, unspecified
M16.0, M16.10, M16.11, M16.12, M16.2, M16.30, M16.31, M16.32, M16.4, M16.50, M16.51, M16.52, M16.6, M16.7, M16.9, M17.0, M17.10, M17.11, M17.12, M17.2, M17.30, M17.31, M17.32, M17.4, M17.5, M17.9, M18.0, M18.10, M18.11, M18.12, M18.2, M18.30, M18.31, M18.32, M18.4, M18.50, M18.51, M18.52, M18.9, M19.011, M19.012, M19.019, M19.021, M19.022, M19.029, M19.031, M19.032, M19.039, M19.041, M19.042, M19.049, M19.071, M19.072, M19.079, M19.111, M19.112, M19.119, M19.121, M19.122, M19.129, M19.131, M19.132, M19.139, M19.141, M19.142, M19.149, M19.171, M19.172, M19.179, M19.211, M19.212, M19.219, M19.221, M19.222, M19.229, M19.231, M19.232, M19.239, M19.241, M19.242, M19.249, M19.271, M19.272, M19.279, M19.90, M19.91, M19.92, M19.93	Osteoarthritis
M21.51, M21.511, M21.512, M21.519, M21.52, M21.521, M21.522, M21.529, M21.53, M21.531, M21.532, M21.539, M21.54, M21.541, M21.542, M21.549	Acquired clawhand, clubhand, clawfoot and clubfoot
M21.80, M21.90	Other acquired limb deformity of unspecified limb
M24.20, M35.7, M60.009, M60.10, M60.20, M61.00, M61.10, M61.40, M61.59, M61.9, M62.00, M62.10, M62.3, M62.40, M62.50, M62.81, M62.82, M62.838, M62.89, M72.0-M72.2, M72.4, M72.6	Disorders of muscle ligament and fascia
M41, M41.0, M41.00, M41.02, M41.03, M41.04, M41.05, M41.06, M41.07, M41.08, M41.1, M41.11, M41.112, M41.113, M41.114, M41.115, M41.116, M41.117, M41.119, M41.12, M41.122, M41.123, M41.124, M41.125, M41.126, M41.127, M41.129, M41.2, M41.20, M41.22, M41.23, M41.24, M41.25, M41.26, M41.27, M41.3, M41.30, M41.34, M41.35, M41.4, M41.40, M41.41, M41.42, M41.43, M41.44, M41.45, M41.46, M41.47, M41.5, M41.50, M41.52, M41.53, M41.54, M41.55, M41.56, M41.57, M41.8, M41.80, M41.82, M41.83, M41.84, M41.85, M41.86, M41.87, M41.9	Scoliosis
M45.0, M45.1, M45.2, M45.3, M45.4, M45.5, M45.6, M45.7, M45.8, M45.9	Ankylosing spondylitis

M47.011, M47.012, M47.013, M47.014, M47.015, M47.016, M47.019, M47.021, M47.022, M47.029, M47.10, M47.11, M47.12, M47.13, M47.14, M47.15, M47.16, M47.20, M47.21, M47.22, M47.23, M47.24, M47.25, M47.26, M47.27, M47.28, M47.811, M47.812, M47.813, M47.814, M47.815, M47.816, M47.817, M47.818, M47.819, M47.891, M47.892, M47.893, M47.894, M47.895, M47.896, M47.897, M47.898, M47.899, M47.9	Spondylosis
M48.8X1, M48.8X2, M48.8X3, M48.8X4, M48.8X5, M48.8X6, M48.8X7, M48.8X8, M48.8X9	Other specified spondylopathies
M51.34, M51.35, M51.36, M51.37	Degenerative disc disease
M54.10	Radiculopathy, site unspecified
M54.10, M79.2	Neuralgia, neuritis, and radiculitis, unspecified
M54.11	Radiculopathy, occipito-atlanto-axial region
M54.12	Radiculopathy, cervical region
M54.13	Radiculopathy, cervicothoracic region
M54.14	Radiculopathy, thoracic region
M54.15	Radiculopathy, thoracolumbar region
M54.16	Radiculopathy, lumbar region
M54.17	Radiculopathy, lumbosacral region
M54.18	Radiculopathy, sacral and sacrococcygeal region
M60.80	Other myositis, unspecified site
M60.811	Other myositis, right shoulder
M60.812	Other myositis, left shoulder
M60.819	Other myositis, unspecified shoulder
M60.821	Other myositis, right upper arm
M60.822	Other myositis, left upper arm
M60.829	Other myositis, unspecified upper arm
M60.831	Other myositis, right forearm
M60.832	Other myositis, left forearm
M60.839	Other myositis, unspecified forearm
M60.841	Other myositis, right hand
M60.842	Other myositis, left hand
M60.849	Other myositis, unspecified hand
M60.851	Other myositis, right thigh
M60.852	Other myositis, left thigh
M60.859	Other myositis, unspecified thigh
M60.861	Other myositis, right lower leg
M60.862	Other myositis, left lower leg
M60.869	Other myositis, unspecified lower leg
M60.871	Other myositis, right ankle and foot
M60.872	Other myositis, left ankle and foot
M60.879	Other myositis, unspecified ankle and foot
M60.88	Other myositis, other site
M60.89	Other myositis, multiple sites
M60.9	Myositis, unspecified
M60.9, M79.1, M79.7	Myalgia and myositis, unspecified
M79.1	Myalgia

M79.10	Myalgia, unspecified site
M79.11	Myalgia of mastication muscle
M79.12	Myalgia of auxiliary muscles, head and neck
M79.18	Myalgia, other site
M79.2	Neuralgia and neuritis, unspecified
M79.7	Fibromyalgia
M86.3, M86.30, M86.31, M86.311, M86.312, M86.319, M86.32, M86.321, M86.322, M86.329, M86.33, M86.331, M86.332, M86.339, M86.34, M86.341, M86.342, M86.349, M86.35, M86.351, M86.352, M86.359, M86.36, M86.361, M86.362, M86.369, M86.37, M86.371, M86.372, M86.379, M86.38, M86.39, M86.4, M86.40, M86.41, M86.411, M86.412, M86.419, M86.42, M86.421, M86.422, M86.429, M86.43, M86.431, M86.432, M86.439, M86.44, M86.441, M86.442, M86.449, M86.45, M86.451, M86.452, M86.459, M86.46, M86.461, M86.462, M86.469, M86.47, M86.471, M86.472, M86.479, M86.48, M86.49, M86.5, M86.50, M86.51, M86.511, M86.512, M86.519, M86.52, M86.521, M86.522, M86.529, M86.53, M86.531, M86.532, M86.539, M86.54, M86.541, M86.542, M86.549, M86.55, M86.551, M86.552, M86.559, M86.56, M86.561, M86.562, M86.569, M86.57, M86.571, M86.572, M86.579, M86.58, M86.59, M86.6, M86.60, M86.61, M86.611, M86.612, M86.619, M86.62, M86.621, M86.622, M86.629, M86.63, M86.631, M86.632	Chronic osteomyelitis
Q00.0	Anencephaly
Q00.1	Craniorachischisis
Q00.2	Iniencephaly
Q01.0	Frontal encephalocele
Q01.1	Nasofrontal encephalocele
Q01.2	Occipital encephalocele
Q01.8	Encephalocele of other sites
Q01.9	Encephalocele, unspecified
Q02	Microcephaly
Q03.0	Malformations of aqueduct of Sylvius
Q03.1	Atresia of foramina of Magendie and Luschka
Q03.8	Other congenital hydrocephalus
Q03.9	Congenital hydrocephalus, unspecified
Q04.0	Congenital malformations of corpus callosum
Q04.1	Arhinencephaly
Q04.2	Holoprosencephaly
Q04.3	Other reduction deformities of brain
Q04.4	Septo-optic dysplasia of brain
Q04.5	Megalencephaly
Q04.6	Congenital cerebral cysts
Q04.8	Other specified congenital malformations of brain
Q04.9	Congenital malformation of brain, unspecified

Q05.0	Cervical spina bifida with hydrocephalus
Q05.1	Thoracic spina bifida with hydrocephalus
Q05.2	Lumbar spina bifida with hydrocephalus
Q05.3	Sacral spina bifida with hydrocephalus
Q05.4	Unspecified spina bifida with hydrocephalus
Q05.5	Cervical spina bifida without hydrocephalus
Q05.6	Thoracic spina bifida without hydrocephalus
Q05.7	Lumbar spina bifida without hydrocephalus
Q05.8	Sacral spina bifida without hydrocephalus
Q05.9	Spina bifida, unspecified
Q06.0	Amyelia
Q06.1	Hypoplasia and dysplasia of spinal cord
Q06.2	Diastematomyelia
Q06.3	Other congenital cauda equina malformations
Q06.4	Hydromyelia
Q06.8	Other specified congenital malformations of spinal cord
Q06.9	Congenital malformation of spinal cord, unspecified
Q07.00, Q07.01, Q07.02, Q07.03	Arnold-Chiari syndrome
Q07.8	Other specified congenital malformations of nervous system
Q07.9	Congenital malformation of nervous system, unspecified
Q66, Q66.0, Q66.00, Q66.01, Q66.02, Q66.1, Q66.10, Q66.11, Q66.12, Q66.2, Q66.21, Q66.211, Q66.212, Q66.219, Q66.22, Q66.221, Q66.222, Q66.229, Q66.3, Q66.30, Q66.31, Q66.32, Q66.4, Q66.40, Q66.41, Q66.42, Q66.5, Q66.50, Q66.51, Q66.52, Q66.6, Q66.7, Q66.70, Q66.71, Q66.72, Q66.8, Q66.80, Q66.81, Q66.82, Q66.89, Q66.9, Q66.90, Q66.91, Q66.92, M21.541, M21.542, M21.549	Congenital deformities of feet
Q67.0, Q67.1, Q67.2, Q67.3, Q67.4, Q67.5, Q67.6, Q67.8	Congenital musculoskeletal deformities of head, face, spine and chest
Q68.0, Q68.1, Q68.2, Q68.3, Q68.4, Q68.5, Q68.6, Q68.8	Other congenital musculoskeletal deformities
Q72, Q72.0, Q72.00, Q72.01, Q72.02, Q72.03, Q72.1, Q72.10, Q72.11, Q72.12, Q72.13, Q72.2, Q72.20, Q72.21, Q72.22, Q72.23, Q72.3, Q72.30, Q72.31, Q72.32, Q72.33, Q72.4, Q72.40, Q72.41, Q72.42, Q72.43, Q72.5, Q72.50, Q72.51, Q72.52, Q72.53, Q72.6, Q72.60, Q72.61, Q72.62, Q72.63, Q72.7,	Reduction defects of limbs

Q72.70, Q72.71, Q72.72, Q72.73, Q72.8, Q72.81, Q72.811, Q72.812, Q72.813, Q72.819, Q72.89, Q72.891, Q72.892, Q72.893, Q72.899, Q72.9, Q72.90, Q72.91, Q72.92, Q72.93, Q71, Q71.0, Q71.00, Q71.01, Q71.02, Q71.03, Q71.1, Q71.10, Q71.11, Q71.12, Q71.13, Q71.2, Q71.20, Q71.21, Q71.22, Q71.23, Q71.3, Q71.30, Q71.31, Q71.32, Q71.33, Q71.4, Q71.40, Q71.41, Q71.42, Q71.43, Q71.5, Q71.50, Q71.51, Q71.52, Q71.53, Q71.6, Q71.60, Q71.61, Q71.62, Q71.63, Q71.8, Q71.81, Q71.811, Q71.812, Q71.813, Q71.819, Q71.89, Q71.891, Q71.892, Q71.893, Q71.899, Q71.9, Q71.90, Q71.91, Q71.92, Q71.93, Q73.0, Q73.1, Q73.8	
Q76.49, Q89.8	Caudal regression syndrome
Q79.60, Q79.61, Q79.62, Q79.63, Q79.69	Ehlers-Danlos syndrome
R26.89	Other abnormalities of gait and mobility
R53.82	Chronic fatigue syndrome
S12.000A, S12.001A, S12.100A, S12.101A, S12.200A, S12.201A, S12.300A, S12.301A, S12.400A, S12.401A, S12.500A, S12.501A, S12.600A, S12.601A, S12.9XXA, S12.000B, S12.001B, S12.100B, S12.101B, S12.200B, S12.201B, S12.300B, S12.301B, S12.400B, S12.401B, S12.500B, S12.501B, S12.600B, S12.601B, S14.0XXA, S14.0XXS, S14.101A, S14.102A, S14.103A, S14.104A, S14.105A, S14.106A, S14.107A, S14.108A, S14.109A, S14.111A, S14.112A, S13.113A, S14.114A, S14.115A, S14.116A, S14.117A, S14.118A, S14.119A, S14.121A, S14.122A, S14.123A, S14.124A, S14.125A, S14.126A, S14.127A, S14.128A, S14.129A, S14.131A, S14.132A, S14.133A, S14.134A, S14.135A, S14.136A, S14.137A, S14.138A, S14.139A, S14.141A, S14.142A, S14.143A, S14.144A, S14.145A, S14.146A, S14.147A, S14.148A, S14.149A, S14.151A, S14.152A, S14.153A, S14.154A, S14.155A, S14.156A, S14.157A, S14.158A, S14.159A, S14.101S, S14.102S, S14.103S, S14.104S, S14.105S, S14.106S, S14.107S, S14.108S, S14.109S, S14.111S, S14.112S, S14.113S, S14.114S, S14.115S, S14.116S, S14.117S, S14.118S, S14.119S, S14.121S, S14.122S, S14.123S, S14.124S, S14.125S, S14.126S, S14.127S, S14.128S, S14.129S, S14.131S, S14.132S, S14.133S, S14.134S, S14.135S, S14.136S, S14.137S, S14.138S, S14.139S, S14.141S, S14.142S, S14.143S, S14.144S, S14.145S, S14.146S, S14.147S, S14.148S, S14.149S, S14.151S, S14.152S, S14.153S, S14.154S, S14.155S, S14.156S, S14.157S, S14.158S, S14.159S, S22.009A, S22.019A, S22.029A, S22.039A, S22.049A,	Spinal cord injury

	<p>S22.059A, S22.069A, S22.079A, S22.089A, S22.009B, S22.019B, S22.029B, S22.039B, S22.049B, S22.059B, S22.069B, S22.079B, S22.089B, S24.0XXA, S24.101A, S24.102A, S24.103A, S24.104A, S24.109A, S24.111A, S24.112A, S24.113A, S24.114A, S24.119A, S24.131A, S24.132A, S24.133A, S24.134A, S24.139A, S24.141A, S24.142A, S24.143A, S24.144A, S24.149A, S24.151A, S24.152A, S24.153A, S24.154A, S24.159A, S24.0XXS, S24.101S, S24.102S, S24.103S, S24.104S, S24.109S, S24.111S, S24.112S, S24.113S, S24.114S, S24.119S, S24.131S, S24.132S, S24.133S, S24.134S, S24.139S, S24.141S, S24.142S, S24.143S, S24.144S, S24.149S, S24.151S, S24.152S, S24.153S, S24.154S, S24.159S</p>	
	<p>S12.0, S12.00, S12.000, S12.001, S12.01, S12.02, S12.03, S12.030, S12.031, S12.04, S12.040, S12.041, S12.09, S12.090, S12.091, S12.1, S12.10, S12.100, S12.101, S12.11, S12.110, S12.111, S12.112, S12.12, S12.120, S12.121, S12.13, S12.130, S12.131, S12.14, S12.15, S12.150, S12.151, S12.19, S12.190, S12.191, S12.2, S12.20, S12.200, S12.201, S12.23, S12.230, S12.231, S12.24, S12.25, S12.250, S12.251, S12.29, S12.290, S12.291, S12.3, S12.30, S12.300, S12.301, S12.33, S12.330, S12.331, S12.34, S12.35, S12.350, S12.351, S12.39, S12.390, S12.391, S12.4, S12.40, S12.400, S12.401, S12.43, S12.430, S12.431, S12.44, S12.45, S12.450, S12.451, S12.49, S12.490, S12.491, S12.5, S12.50, S12.500, S12.501, S12.53, S12.530, S12.531, S12.54, S12.55, S12.550, S12.551, S12.59, S12.590, S12.591, S12.6, S12.60, S12.600, S12.601, S12.63, S12.630, S12.631, S12.64, S12.65, S12.650, S12.651, S12.69, S12.690, S12.691, S12.8, S12.9</p>	<p>Dislocation and sprain of joints and ligaments at neck level</p>
	<p>S14.0, S14.1, S14.10, S14.101, S14.102, S14.103, S14.104, S14.105, S14.106, S14.107, S14.108, S14.109, S14.11, S14.111, S14.112, S14.113, S14.114, S14.115, S14.116, S14.117, S14.118, S14.119, S14.12, S14.121, S14.122, S14.123, S14.124, S14.125, S14.126, S14.127, S14.128, S14.129, S14.13, S14.131, S14.132, S14.133, S14.134, S14.135, S14.136, S14.137, S14.138, S14.139, S14.14, S14.141, S14.142, S14.143, S14.144, S14.145, S14.146, S14.147, S14.148, S14.149, S14.15, S14.151, S14.152, S14.153, S14.154, S14.155, S14.156, S14.157, S14.158, S14.159, S14.2, S14.3, S14.4, S14.5, S14.8, S14.9</p>	<p>Injury of nerves and spinal cord at neck level</p>
	<p>S22.009, S22.019, S22.029, S22.039, S22.049, S22.059, S22.069, S22.079, S22.089, S22.009,</p>	<p>Injury of nerves and spinal cord at thorax level</p>

	S22.019, S22.029, S22.039, S22.049, S22.059, S22.069, S22.079, S22.089	
	S24.0, S24.1, S24.10, S24.101, S24.102, S24.103, S24.104, S24.109, S24.11, S24.111, S24.112, S24.113, S24.114, S24.119, S24.13, S24.131, S24.132, S24.133, S24.134, S24.139, S24.14, S24.141, S24.142, S24.143, S24.144, S24.149, S24.15, S24.151, S24.152, S24.153, S24.154, S24.159	Fracture of lumbar spine and pelvis
	S34.109, S34.139, S34.3	Unspecified injury to sacral spinal cord
	S78, S78.0, S78.01, S78.011, S78.012, S78.019, S78.02, S78.021, S78.022, S78.029, S78.1, S78.11, S78.111, S78.112, S78.119, S78.12, S78.121, S78.122, S78.129, S78.9, S78.91, S78.911, S78.912, S78.919, S78.92, S78.921, S78.922, S78.929	amputation of leg at hip
	Z74.0	Reduced mobility
	Z89.011, Z89.012, Z89.019, Z89.021, Z89.022, Z89.029, Z89.111, Z89.112, Z89.119, Z89.121, Z89.122, Z89.129, Z89.201, Z89.202, Z89.209, Z89.211, Z89.212, Z89.219, Z89.221, Z89.222, Z89.229, Z89.411, Z89.412, Z89.419, Z89.421, Z89.422, Z89.429, Z89.431, Z89.432, Z89.439, Z89.441, Z89.442, Z89.449, Z89.511, Z89.512, Z89.519, Z89.521, Z89.522, Z89.529, Z89.611, Z89.612, Z89.619, Z89.621, Z89.622, Z89.629, Z89.9	Acquired absence of limb
	Z99.3, Z74.01, Z74.09	Immobility requiring mobility aid
	Z99.89	Dependence on other enabling machine
Discharge Diagnosis: ICD-9- CM	046.0, 046.11, 046.19, 046.2, 046.3, 046.71, 046.72, 046.79, 046.8, 046.9, 277.39, 330.8, 331.11, 331.19, 331.82, 331.83, 331.89, 331.2, 331.6, 331.9, 331.0, 331.7, 333.0, 334.2, 334.3, 334.8, 334.9, 335.0, 335.11, 335.19, 335.23, 335.8, 335.9, 357.3	Neurodegenerative disorders of the CNS (e.g. Huntington's disease, Friedrich's ataxia, and spinocerebellar degeneration)
	253.3, 259.4, 263.2, 270.0, 588.0, 756.4	Dwarfism
	323.9, 341.8	Subacute necrotizing myelitis of central nervous system
	333.6, 333.72, 333.79, 333.81, 333.82, 333.83, 333.85, 333.89	Dystonia
	334.1	Hereditary spastic paraplegia
	335.10, 335.22, 335.24, 335.29	Spinal muscular atrophy and related syndromes
	335.20, 335.21	Amyotrophic lateral sclerosis (ALS)
	338.2	Chronic pain
	338.21	Chronic pain due to trauma
	338.22	Chronic post-thoracotomy pain
	338.28	Other chronic postprocedural pain
	338.29	Other chronic pain
	338.3	Neoplasm related pain (acute) (chronic)
	338.4	Chronic pain syndrome
	340	Multiple sclerosis

341.0	Other demyelinating diseases of central nervous system
341.2	Acute (transverse) myelitis NOS
341.20	Acute (transverse) myelitis NOS
341.21	Acute (transverse) myelitis in conditions classified elsewhere
341.22	Idiopathic transverse myelitis
341.8	Other demyelinating diseases of central nervous system Acute and subacute hemorrhagic leukoencephalitis [Hurst] Other specified acute disseminated demyelination Central demyelination of corpus callosum Central pontine myelinolysis Other specified demyelinating diseases of central nervous system
341.9	Demyelinating disease of central nervous system, unspecified Acute disseminated demyelination, unspecified Demyelinating disease of central nervous system, unspecified
342.00	Flaccid hemiplegia and hemiparesis affecting unspecified side
342.01	Flaccid hemiplegia and hemiparesis affecting dominant side
342.02	Flaccid hemiplegia and hemiparesis affecting nondominant side
342.10	Spastic hemiplegia and hemiparesis affecting unspecified side
342.11	Spastic hemiplegia and hemiparesis affecting dominant side
342.12	Spastic hemiplegia and hemiparesis affecting nondominant side
342.80	Other specified hemiplegia and hemiparesis affecting unspecified side
342.81	Other specified hemiplegia and hemiparesis affecting dominant side
342.82	Other specified hemiplegia and hemiparesis affecting nondominant side
342.90	Hemiplegia, unspecified, affecting unspecified side
342.91	Hemiplegia, unspecified, affecting dominant side
342.92	Hemiplegia, unspecified, affecting nondominant side
344.00	Other paralytic syndromes Quadriplegia and quadraparesis Quadriplegia, unspecified
344.01	Quadriplegia, C1-C4, complete
344.02	Quadriplegia, C1-C4, incomplete
344.03	Quadriplegia, C5-C7, complete

344.04	Quadriplegia, C5-C7, incomplete
344.09	Other quadriplegia
344.1	Paraplegia
344.2	Diplegia of upper limbs
344.30	Monoplegia of lower limb affecting unspecified side
344.31	Monoplegia of lower limb affecting dominant side
344.32	Monoplegia of lower limb affecting nondominant side
344.40	Monoplegia of upper limb affecting unspecified side
344.41	Monoplegia of upper limb affecting dominant side
344.42	Monoplegia of upper limb affecting nondominant side
344.5	Unspecified monoplegia
344.60	Cauda equina syndrome
344.61	Cauda equina syndrome with neurogenic bladder
344.8	Other specified paralytic syndromes
344.81	Locked-in state
344.89	Other specified paralytic syndrome
344.9	Paralysis, unspecified
349.39	Dural tear
356.0, 356.1, 356.2	Charcot-Marie-Tooth disease & related syndromes
356.4	Idiopathic progressive neuropathy
356.8	Inherited sensory neuropathies
357.4, 357.89, 357.9	Inflammatory polyneuropathy, other or unspecified
359	Congenital hereditary muscular dystrophy
359.0	Congenital hereditary muscular dystrophy
359.1	Hereditary progressive muscular dystrophy
359.21	Myotonic muscular dystrophy
438.20	Late effects of cerebrovascular disease, hemiplegia affecting unspecified side
438.21	Late effects of cerebrovascular disease, hemiplegia affecting dominant side
438.22	Late effects of cerebrovascular disease, hemiplegia affecting nondominant side
438.30	Late effects of cerebrovascular disease, monoplegia of upper limb affecting unspecified side
438.31	Late effects of cerebrovascular disease, monoplegia of upper limb affecting dominant side

438.32	Late effects of cerebrovascular disease, monoplegia of upper limb affecting nondominant side
438.40	Late effects of cerebrovascular disease, monoplegia of lower limb affecting unspecified side
438.41	Late effects of cerebrovascular disease, monoplegia of lower limb affecting dominant side
438.42	Late effects of cerebrovascular disease, monoplegia of lower limb affecting nondominant side
438.50	Late effects of cerebrovascular disease, other paralytic syndrome affecting unspecified side
438.51	Late effects of cerebrovascular disease, other paralytic syndrome affecting dominant side
438.52	Late effects of cerebrovascular disease, other paralytic syndrome affecting nondominant side
438.53	Late effects of cerebrovascular disease, other paralytic syndrome, bilateral
714	Rheumatoid arthritis, unspecified
714.1	Felty's syndrome
714.2	Rheumatoid heart disease with rheumatoid arthritis Rheumatoid arthritis with involvement of other organs and systems Adult-onset Still's disease
714.3	Juvenile arthritis
714.31	Juvenile rheumatoid polyarthritis (seronegative)
714.32, 714.33	Pauciarticular juvenile rheumatoid arthritis
714.4	Chronic postrheumatic arthropathy [Jaccoud], unspecified site
714.89, 714.9, 720.9	Inflammatory Arthritis
715.00, 715.04, 715.09, 715.10, 715.11, 715.12, 715.13, 715.14, 715.15, 715.16, 715.17, 715.18, 715.20, 715.21, 715.22, 715.23, 715.24, 715.25, 715.26, 715.27, 715.28, 715.30, 715.31, 715.32, 715.33, 715.34, 715.35, 715.36, 715.37, 715.38, 715.80, 715.89, 715.90, 715.91, 715.92, 715.93, 715.94, 715.95, 715.96, 715.97, 715.98	Osteoarthritis
720	Ankylosing spondylitis
721.0, 721.1, 721.2, 721.3	Spondylosis
721.90, 721.91	Other specified spondylopathies
722.6, 722.51, 722.52	Degenerative Disc Disease
723.4	Radiculopathy, occipito-atlanto-axial region Radiculopathy, cervical region Radiculopathy, cervicothoracic region Radiculopathy, thoracic region

		Radiculopathy, thoracolumbar region Radiculopathy, lumbar region Radiculopathy, lumbosacral region
728		Disorders of muscle ligament and fascia
729.1		Myalgia and myositis
729.2		Neuralgia and neuritis, unspecified
730.1		Chronic osteomyelitis
736.71, 754.50, 754.51		Congenital deformities of feet
736.89		Other acquired limb deformity of unspecified limb
740		Anencephaly
740.1		Craniorachischisis
740.2		Iniencephaly
741, 741.00		Unspecified spina bifida with hydrocephalus
741.01		Cervical spina bifida with hydrocephalus
741.02		Thoracic spina bifida with hydrocephalus
741.03		Lumbar spina bifida with hydrocephalus
741.9		Spina bifida, unspecified
741.91		Cervical spina bifida without hydrocephalus
741.92		Thoracic spina bifida without hydrocephalus
741.93		Lumbar spina bifida without hydrocephalus
742		Encephalocele, unspecified
742.1		Microcephaly
742.2		Arhinencephaly
742.4		Megalencephaly
742.5		Other specified congenital anomalies of spinal cord
742.51		Diastematomyelia
742.53		Hydromyelia
742.59		Amyelia Hypoplasia and dysplasia of spinal cord Other congenital cauda equina malformations Other specified congenital malformations of spinal cord
742.8		Other specified congenital malformations of nervous system
742.9		Congenital malformation of nervous system, unspecified
755.31, 755.33, 755.35, 897.2, 897.3, 897.4, 897.5, 907.9		Amputation of leg at hip
756.10, 756.13, 756.14, 756.15, 756.17, 756.19, 759.89		Caudal Regression Syndrome
756.83		Ehlers-Danlos Syndrome
780.71		Chronic fatigue syndrome

	806.00, 806.01, 806.02, 806.03, 806.04, 806.05, 806.06, 806.07, 806.08, 806.09, 806.10, 806.11, 806.12, 806.13, 806.14, 806.15, 806.16, 806.17, 806.18, 806.19, 806.8, 806.9	Dislocation and sprain of joints and ligaments at neck level
	806.20, 806.21, 806.22, 806.23, 806.24, 806.25, 806.26, 806.27, 806.28, 806.29, 806.30, 806.31, 806.32, 806.33, 806.34, 806.35, 806.36, 806.37, 806.38, 806.39, 907.2	Injury of nerves and spinal cord at thorax level
	952.00, 952.01, 952.02, 952.03, 952.04, 952.05, 952.06, 952.07, 952.08, 952.09	Injury of nerves and spinal cord at neck level
	952.10, 952.11, 952.12, 952.13, 952.14, 952.15, 952.16, 952.17, 952.18, 952.19	Fracture of lumbar spine and pelvis
	952.2, 952.3, 952.4, 952.8, 952.9	Unspecified injury to sacral spinal cord
	928000	Myalgia Myalgia, unspecified site Myalgia of mastication muscle Myalgia of auxiliary muscles, head and neck Myalgia, other site Neuralgia and neuritis, unspecified Fibromyalgia
	1576311, 1576173	Immobility requiring mobility aid
	6118003	Neuromyelitis optica Acute (transverse) myelitis NOS Acute (transverse) myelitis in conditions classified elsewhere Idiopathic transverse myelitis Other demyelinating diseases of central nervous system Demyelinating disease of central nervous system, unspecified Acute and subacute hemorrhagic leukoencephalitis [Hurst] Other specified acute disseminated demyelination Acute disseminated demyelination, unspecified Central demyelination of corpus callosum Central pontine myelinolysis Acute transverse myelitis in demyelinating disease of central nervous system Subacute necrotizing myelitis of central nervous system Other specified demyelinating diseases of central nervous system Demyelinating disease of central nervous system, unspecified
	8847002	Spondylosis
Discharge Diagnosis code – SNOMED	9631008	Ankylosing spondylitis
	15241006	Familial dysautonomia [Riley-Day]
	15758002	Dural tear
	15802004	Dystonia

17230005	Acquired clawhand, clubhand, clawfoot and clubfoot
20484008	Neurodegenerative disorders of the CNS (e.g. Huntington's disease, Friedrich's ataxia, and spinocerebellar degeneration)
23685000	Rheumatoid heart disease with rheumatoid arthritis
24700007	Multiple sclerosis
26889001	Other myositis, unspecified site
26889001, 68962001, 203082005	Myalgia and myositis, unspecified
29426003	Quadriplegia, unspecified Quadriplegia, C1-C4, complete Quadriplegia, C1-C4, incomplete Quadriplegia, C5-C7, complete Quadriplegia, C5-C7, incomplete Other quadriplegia Paraplegia Diplegia of upper limbs Monoplegia of lower limb affecting unspecified side Monoplegia of lower limb affecting dominant side Monoplegia of lower limb affecting nondominant side Monoplegia of upper limb affecting unspecified side Monoplegia of upper limb affecting dominant side Monoplegia of upper limb affecting nondominant side Unspecified monoplegia Cauda equina syndrome without mention of neurogenic bladder Cauda equina syndrome with neurogenic bladder Locked-in state Other specified paralytic syndrome Paralysis, unspecified
33209009	Idiopathic progressive neuropathy
36427004	Degenerative Disc Disease
39912006	Hereditary spastic paraplegia
47032000	Malformations of aqueduct of Sylvius Atresia of foramina of Magendie and Luschka Other congenital hydrocephalus Congenital hydrocephalus, unspecified
52702003	Chronic fatigue syndrome
55999004	Frontal encephalocele Nasofrontal encephalocele Occipital encephalocele Encephalocele of other sites Encephalocele, unspecified
57148006	Congenital malformation of brain, unspecified Anencephaly

		Craniorachischisis Iniencephaly Congenital malformations of corpus callosum Arhinencephaly Holoprosencephaly Other reduction deformities of brain Septo-optic dysplasia of brain Megalencephaly Congenital cerebral cysts Other specified congenital malformations of brain Congenital malformation of brain, unspecified
	57160007	Felty's syndrome
	60168000	Chronic osteomyelitis
	65354004	Injury of nerves and spinal cord at thorax level
	67531005	Spina bifida, unspecified Cervical spina bifida with hydrocephalus Thoracic spina bifida with hydrocephalus Lumbar spina bifida with hydrocephalus Sacral spina bifida with hydrocephalus Unspecified spina bifida with hydrocephalus Cervical spina bifida without hydrocephalus Thoracic spina bifida without hydrocephalus Lumbar spina bifida without hydrocephalus Sacral spina bifida without hydrocephalus Spina bifida, unspecified
	69896004	Rheumatoid arthritis with involvement of other organs and systems
	72274001	Radiculopathy, site unspecified Radiculopathy, occipito-atlanto-axial region Radiculopathy, cervical region Radiculopathy, cervicothoracic region Radiculopathy, thoracic region Radiculopathy, thoracolumbar region Radiculopathy, lumbar region Radiculopathy, lumbosacral region Radiculopathy, sacral and sacrococcygeal region
	72274001, 16269008	Neuralgia, neuritis, and radiculitis, unspecified
	73573004	Congenital musculoskeletal deformities of head, face, spine and chest Ehlers-Danlos Syndrome Other congenital musculoskeletal

		deformities Congenital musculoskeletal deformities of head, face, spine and chest
	74391003	Pauciarticular juvenile rheumatoid arthritis
	75047002	Congenital myopathies Congenital hereditary muscular dystrophy Hereditary progressive muscular dystrophy Muscular dystrophy Muscular dystrophy, unspecified Duchenne or Becker muscular dystrophy Facioscapulohumeral muscular dystrophy Other specified muscular dystrophies Myotonic muscular dystrophy Congenital myopathies
	77595004	Reduction defects of limbs
	82423001	Chronic pain due to trauma Chronic post-thoracotomy pain Other chronic pain Chronic Pain due to Trauma Chronic post-thoracotomy pain Other chronic postprocedural pain Other chronic pain
	84017003	Rheumatoid bursitis
	86044005	Amyotrophic lateral sclerosis (ALS) Spinal muscular atrophy and related syndromes
	88425004	Arnold-Chiari syndrome Arnold-Chiari syndrome Other specified congenital malformations of nervous system Congenital malformation of nervous system, unspecified
	95860004	amputation of leg at hip
	105501005	Dependence on other enabling machine
	125606003	Dislocation and sprain of joints and ligaments at neck level
	193180002	Rheumatoid polyneuropathy with rheumatoid arthritis
	193250002	Rheumatoid myopathy with rheumatoid arthritis
	201789001	Rheumatoid nodule
	201796004	Juvenile rheumatoid arthritis with systemic onset
	212355006	Injury of nerves and spinal cord at neck level
	212357003	Fracture of lumbar spine and pelvis
	212359000	Unspecified injury to sacral spinal cord

	239791005	Rheumatoid arthritis with rheumatoid factor without organ or systems involvement
	239792003	Rheumatoid arthritis without rheumatoid factor
	239805001	Juvenile ankylosing spondylitis
	239872002	Osteoarthritis
	239920006	Adult-onset Still's disease
	276654001	Amyelia Hypoplasia and dysplasia of spinal cord Diastematomyelia Other congenital cauda equina malformations Hydromyelia Other specified congenital malformations of spinal cord Congenital malformation of spinal cord, unspecified
	298382003	Scoliosis
	302297009	Congenital deformities of feet
	372109003	Other specified spondylopathies
	373621006	Chronic pain syndrome
	386033004	Inherited sensory neuropathies
	396275006	Primary generalized (osteo)arthritis Heberden's nodes (with arthropathy) Bouchard's nodes (with arthropathy) Secondary multiple arthritis Erosive (osteo)arthritis Other polyosteoarthritis Polyosteoarthritis, unspecified
	398100001	Charcot-Marie-Tooth disease & related syndromes
	399269003	Chronic postrheumatic arthropathy [Jaccoud], unspecified site
	400054000	Rheumatoid vasculitis with rheumatoid arthritis
	410795001	Juvenile arthritis
	410797009	Juvenile rheumatoid polyarthritis (seronegative)
	417373000, 371082009	Inflammatory Arthritis
	441960006	Late effects of cerebrovascular disease, hemiplegia affecting unspecified side
	609557004	Flaccid hemiplegia and hemiparesis affecting unspecified side Flaccid hemiplegia and hemiparesis affecting dominant side Flaccid hemiplegia and hemiparesis affecting nondominant side Spastic hemiplegia and hemiparesis affecting unspecified side Spastic hemiplegia and hemiparesis affecting dominant side Spastic hemiplegia and hemiparesis

		affecting nondominant side Other specified hemiplegia and hemiparesis affecting unspecified side Other specified hemiplegia and hemiparesis affecting dominant side Other specified hemiplegia and hemiparesis affecting nondominant side Hemiplegia, unspecified, affecting unspecified side Hemiplegia, unspecified, affecting dominant side Hemiplegia, unspecified, affecting nondominant side
	737303004, 128605003	Acquired absence of limb
	74877002, 276654001	Caudal Regression Syndrome
	76886005, 363302008	Inflammatory polyneuropathy, other or unspecified
	78373000, 74257000, 197663003, 315271000119104	Dwarfism
	1148757008	Microcephaly
	98921000119102	Neoplasm related pain (acute) (chronic)
	85551004, 26889001, 44551007, 129565002, 254749001	Disorders of muscle ligament and fascia
Chief Complaint Terms	motorized wheelchair, motorized mobility, own wheelchair, owl wheelchair, paralyzed, hooyer lift, patient lift, (trouble, hard, difficulty, partial difficulty, impair, problems, loss, reduced, low, limited) AND (mobility, walking, climbing stairs, body position, fine hand use, lifting and carrying objects, hand and arm use, moving around, using transportation, moving, transferring self, performing manual tasks), (wheelchair) AND (user, bound*, confined*), (inability to move) AND (arm, leg, upper, lower, hand, head)	
Exclusions		
Discharge Diagnosis: ICD-10-CM	S43.109, S43.004, S43.409	Injury of lumbar and sacral spinal cord and nerves at abdomen, lower back and pelvis level
	M62.838, M62.81	Disorders of muscle ligament and fascia
	M79.10	Myalgia
Chief Complaint Terms	chills, fever, generalized body aches, cellulitis, muscle weakness), (sprain) AND (ankle, shoulder, wrist, knee, thumb)	
	arrives walking with normal gait. while climbing stairs. after climbing stairs	

*Term may be used by providers; however, this term is not endorsed by the disability community. We included this term to ensure we are including as many true positive health encounters in the data as possible (casting a wider net). For suggestions on non-stigmatizing language related to disability see: [Preferred Terms for Select Population Groups & Communities | Gateway to Health Communication | CDC](#)

Plain Language Syntax Description: The Mobility Disability (v1) definition intends to identify emergency department visits by people with mobility-related disabilities. The definition includes diagnosis codes and words related to functional difficulty related to mobility. Users can combine the Mobility definition with other definitions used to track important public health outcomes (e.g., heat-related illness, suicide attempts, or infection) to find out if emergency department visits for these important outcomes are more common among people with mobility-related disabilities compared to people without mobility-related disabilities. This definition will not capture everyone with a mobility-related disability, but it can be used to look at trends and help public health professionals better understand the impact of health concerns on the disability community. This information can be used to help make sure the needs of people with disabilities are considered and addressed when responding to health concerns.

Table 2. ESSENCE syntax, Mobility Disability (v1) Definition

This definition was tested and intended to run on the “CC and DD parsed free text” field in ESSENCE.	
Mobility Disability	
• ICD9	<ul style="list-style-type: none"> ◦ ^;046^,or,^;046[0-9]^,or,^;046[0-9][0-9]^,or,^;2533^,or,^;2533[0-9]^,or,^;2594^,or,^;2594[0-9]^,or,^;2632^,or,^;2632[0-9]^,or,^;2700^,or,^;2700[0-9]^,or,^;27739^,or,^;3239^,or,^;3239[0-9]^,or,^;3308^,or,^;3308[0-9]^,or,^;331[0126-9]^,or,^;331[0126-9][0-9]^,or,^;333[046]^,or,^;333[046][0-9]^,or,^;3337[29]^,or,^;3338[12359]^,or,^;334[012389]^,or,^;334[012389][0-9]^,or,^;335^,or,^;335[0-9]^,or,^;335[0-9][0-9]^,or,^;338[234]^,or,^;338[234][0-9]^,or,^;34[0124]^,or,^;34[0124][0-9]^,or,^;34[0124][0-9][0-9]^,or,^;34939^,or,^;356[01248]^,or,^;356[01248][0-9]^,or,^;357[349]^,or,^;357[349][0-9]^,or,^;35789^,or,^;35789[0-9]^,or,^;359^,or,^;359[0-9]^,or,^;359[0-9][0-9]^,or,^;438[2345]^,or,^;438[2345][0-9]^,or,^;5880^,or,^;5880[0-9]^,or,^;714[0-49]^,or,^;714[0-49][0-9]^,or,^;71489^,or,^;715^,or,^;715[0-9]^,or,^;715[0-9][0-9]^,or,^;720[09]^,or,^;720[09][0-9]^,or,^;721[01239]^,or,^;721[01239][0-9]^,or,^;722[56]^,or,^;722[56][0-9]^,or,^;72[34]4^,or,^;72[34]4[0-9]^,or,^;728^,or,^;728[0-9]^,or,^;728[0-9][0-9]^,or,^;729[12]^,or,^;729[12][0-9]^,or,^;7301^,or,^;7301[0-9]^,or,^;73671^,or,^;73689^,or,^;740[012]^,or,^;740[012][0-9]^,or,^;74[12]^,or,^;74[12][0-9]^,or,^;74[12][0-9][0-9]^,or,^;7545[01]^,or,^;7553[135]^,or,^;7561[034579]^,or,^;7564^,or,^;7564[0-9]^,or,^;7568[39]^,or,^;7807^,or,^;7807[0-9]^,or,^;806^,or,^;806[01236789]^,or,^;806[012389][0-9]^,or,^;806[67][345678]^,or,^;897[2-5]^,or,^;897[2-5][0-9]^,or,^;907[29]^,or,^;907[29][0-9]^,or,^;95200^,or,^
• ICD10	<ul style="list-style-type: none"> ◦ ^;A81^,or,^;E3431^,or,^;E45^,or,^;G041^,or,^;G1[0123]^,or,^;G231^,or,^;G24[1-9]^,or,^;G3[01256]^,or,^;G37[123489]^,or,^;G60[0389]^,or,^;G61[89]^,or,^;G65[12]^,or,^;G71[02]^,or,^;G7111^,or,^;G8[123]^,or,^;G89[234]^,or,^;G901^,or,^;G9611^,or,^;I680^,or,^;I690[3-6]^,or,^;I691[3-6]^,or,^;I692[3-6]^,or,^;I693[3-6]^,or,^;I698[3-6]^,or,^;I699[3-6]^,or,^;M0[568]^,or,^;M1[25-9]^,or,^;M21[89]0^,or,^;M215[1-4]^,or,^;M2420^,or,^;M357^,or,^;M4[157]^,or,^;M469^,or,^;M488^,or,^;M513[4-7]^,or,^;M541^,or,^;M60[128]0^,or,^;M60[89]^,or,^;M60009^,or,^;M61[014]0^,or,^;M6159^,or,^;M619^,or,^;M62[0145]0^,or,^;M623^,or,^;M628[129]^,or,^;M62838^,or,^;M72[01246]^,or,^;M79[127]^,or,^;M86[3456]^,or,^;M864^,or,^;M865^,or,^;M866^,or,^;N250^,or,^;Q0[0-7]^,or,^;Q6[678]^,or,^;Q7[123]^,or,^;Q7649^,or,^;Q77[148]^,or,^;Q796^,or,^;Q898^,or,^;R5382^,or,^;S1[24]^,or,^;S13113A^,or,^;S220[0-8]9^,or,^;S24[01]^,or,^;S34[01]__[AS]^,or,^;S343XXA^,or,^;S78^,or,^;Z736^,or,^;Z740^,or,^;Z89[014569]^,or,^;Z892[012]^,or,^;Z993^,or,^;Z9989^,or,^;Z740^

- SNOMED

- ^;105501005;^,or,^;1148757008;^,or,^;125606003;^,or,^;128605003;^,or,^;129565002;^,or,^;15241006;^,or,^;15758002;^,or,^;1576173;^,or,^;1576311;^,or,^;15802004;^,or,^;16269008;^,or,^;17230005;^,or,^;193180002;^,or,^;193250002;^,or,^;197663003;^,or,^;201789001;^,or,^;201796004;^,or,^;203082005;^,or,^;20484008;^,or,^;212355006;^,or,^;212357003;^,or,^;212359000;^,or,^;23685000;^,or,^;239791005;^,or,^;239792003;^,or,^;239805001;^,or,^;239872002;^,or,^;239920006;^,or,^;24700007;^,or,^;254749001;^,or,^;26889001;^,or,^;26889001;^,or,^;276654001;^,or,^;29426003;^,or,^;298382003;^,or,^;302297009;^,or,^;315271000119104;^,or,^;33209009;^,or,^;363302008;^,or,^;36427004;^,or,^;371082009;^,or,^;372109003;^,or,^;373621006;^,or,^;386033004;^,or,^;396275006;^,or,^;398100001;^,or,^;39912006;^,or,^;399269003;^,or,^;400054000;^,or,^;410795001;^,or,^;410797009;^,or,^;417373000;^,or,^;441960006;^,or,^;44551007;^,or,^;47032000;^,or,^;52702003;^,or,^;55999004;^,or,^;57148006;^,or,^;57160007;^,or,^;60168000;^,or,^;609557004;^,or,^;6118003;^,or,^;65354004;^,or,^;67531005;^,or,^;68962001;^,or,^;69896004;^,or,^;72274001;^,or,^;72274001;^,or,^;73573004;^,or,^;737303004;^,or,^;74257000;^,or,^;74391003;^,or,^;74877002;^,or,^;75047002;^,or,^;76886005;^,or,^;77595004;^,or,^;78373000;^,or,^;82423001;^,or,^;84017003;^,or,^;85551004;^,or,^;86044005;^,or,^;88425004;^,or,^;8847002;^,or,^;928000;^,or,^;95860004;^,or,^;9631008;^,or,^;98921000119102;^

- All Together

- ^;046;^,or,^;046[0-9];^,or,^;046[0-9][0-9];^,or,^;2533;^,or,^;2533[0-9];^,or,^;2594;^,or,^;2594[0-9];^,or,^;2632;^,or,^;2632[0-9];^,or,^;2700;^,or,^;2700[0-9];^,or,^;27739;^,or,^;3239;^,or,^;3239[0-9];^,or,^;3308;^,or,^;3308[0-9];^,or,^;331[0126-9];^,or,^;331[0126-9][0-9];^,or,^;333[046];^,or,^;333[046][0-9];^,or,^;3337[29];^,or,^;3338[12359];^,or,^;334[012389];^,or,^;334[012389][0-9];^,or,^;335;^,or,^;335[0-9];^,or,^;335[0-9][0-9];^,or,^;338[234];^,or,^;338[234][0-9];^,or,^;34[0124];^,or,^;34[0124][0-9];^,or,^;34[0124][0-9][0-9];^,or,^;34939;^,or,^;356[01248];^,or,^;356[01248][0-9];^,or,^;357[349];^,or,^;357[349][0-9];^,or,^;35789;^,or,^;35789[0-9];^,or,^;359;^,or,^;359[0-9];^,or,^;359[0-9][0-9];^,or,^;438[2345];^,or,^;438[2345][0-9];^,or,^;5880;^,or,^;5880[0-9];^,or,^;714[0-49];^,or,^;714[0-49][0-9];^,or,^;71489;^,or,^;715;^,or,^;715[0-9];^,or,^;715[0-9][0-9];^,or,^;720[09];^,or,^;720[09][0-9];^,or,^;721[01239];^,or,^;721[01239][0-9];^,or,^;722[56];^,or,^;722[56][0-9];^,or,^;72[34]4;^,or,^;72[34]4[0-9];^,or,^;728;^,or,^;728[0-9];^,or,^;728[0-9][0-9];^,or,^;729[12];^,or,^;729[12][0-9];^,or,^;7301;^,or,^;7301[0-9];^,or,^;73671;^,or,^;73689;^,or,^;740[012];^,or,^;740[012][0-9];^,or,^;74[12];^,or,^;74[12][0-9];^,or,^;74[12][0-9][0-9];^,or,^;7545[01];^,or,^;7553[135];^,or,^;7561[03459];^,or,^;7564;^,or,^;7564[0-9];^,or,^;7568[39];^,or,^;7807;^,or,^;7807[0-9];^,or,^;806;^,or,^;806[01236789];^,or,^;806[012389][0-9];^,or,^;806[67][345678];^,or,^;897[2-5];^,or,^;897[2-5][0-9];^,or,^;907[29];^,or,^;907[29][0-9];^,or,^;95200;^,or,^;A81;^,or,^;E3431;^,or,^;E45;^,or,^;G1[0123];^,or,^;G231;^,or,^;G24[1-9];^,or,^;G3[01256];^,or,^;G37[123489];^,or,^;G60[0389];^,or,^;G61[89];^,or,^;G65[12];^,or,^;G71[02];^,or,^;G7111;^,or,^;G8[123];^,or,^;G89[234];^,or,^;G901;^,or,^;G9611;^,or,^;I680;^,or,^;I690[3-6];^,or,^;I691[3-6];^,or,^;I692[3-6];^,or,^;I693[3-6];^,or,^;I698[3-6];^,or,^;I699[3-6];^,or,^;M0[568];^,or,^;M1[25-9];^,or,^;M21[89]0;^,or,^;M215[1-4];^,or,^;M2420;^,or,^;M357;^,or,^;M4[157];^,or,^;M469;^,or,^;M488;^,or,^;M513[4-7];^,or,^;M541;^,or,^;M60[128]0;^,or,^;M60[89];^,or,^;M60009;^,or,^;M61[014]0;^,or,^;M6159;^,or,^;M619;^,or,^;M62[0145]0;^,or,^;M623;^,or,^;M628[129];^,or,^;M62838;^,or,^;M72[01246];^,or,^;M79[127];^,or,^;M86[3456];^,or,^;M864;^,or,^;M865;^,or,^;M866;^,or,^;N250;^,or,^;Q

0[0-7]^,or,^;Q6[678]^,or,^;Q7[123]^,or,^;Q7649^,or,^;Q77[148]^,or,^;Q796^,or,^;Q898^,or,^;R5382^,or,^;S1[24]^,or,^;S13113A^,or,^;S220[0-8]9^,or,^;S24[01]^,or,^;S34[01]__[AS];^,or,^;S343XXA^,or,^;S78^,or,^;Z736^,or,^;Z740^,or,^;Z89[014569]^,or,^;Z892[012]^,or,^;Z993^,or,^;Z9989^,or,^;Z740^,or,^;105501005;^,or,^;1148757008;^,or,^;125606003;^,or,^;128605003;^,or,^;129565002;^,or,^;15241006;^,or,^;15758002;^,or,^;1576173;^,or,^;1576311;^,or,^;15802004;^,or,^;16269008;^,or,^;17230005;^,or,^;193180002;^,or,^;193250002;^,or,^;197663003;^,or,^;201789001;^,or,^;201796004;^,or,^;203082005;^,or,^;20484008;^,or,^;212355006;^,or,^;212357003;^,or,^;212359000;^,or,^;23685000;^,or,^;239791005;^,or,^;239792003;^,or,^;239805001;^,or,^;239872002;^,or,^;239920006;^,or,^;24700007;^,or,^;254749001;^,or,^;26889001;^,or,^;26889001;^,or,^;276654001;^,or,^;29426003;^,or,^;298382003;^,or,^;302297009;^,or,^;315271000119104;^,or,^;33209009;^,or,^;363302008;^,or,^;36427004;^,or,^;371082009;^,or,^;372109003;^,or,^;373621006;^,or,^;386033004;^,or,^;396275006;^,or,^;398100001;^,or,^;39912006;^,or,^;399269003;^,or,^;400054000;^,or,^;410795001;^,or,^;410797009;^,or,^;417373000;^,or,^;441960006;^,or,^;44551007;^,or,^;47032000;^,or,^;52702003;^,or,^;55999004;^,or,^;57148006;^,or,^;57160007;^,or,^;60168000;^,or,^;609557004;^,or,^;6118003;^,or,^;65354004;^,or,^;67531005;^,or,^;68962001;^,or,^;69896004;^,or,^;72274001;^,or,^;72274001;^,or,^;73573004;^,or,^;737303004;^,or,^;74257000;^,or,^;74391003;^,or,^;74877002;^,or,^;75047002;^,or,^;76886005;^,or,^;77595004;^,or,^;78373000;^,or,^;82423001;^,or,^;84017003;^,or,^;85551004;^,or,^;86044005;^,or,^;88425004;^,or,^;8847002;^,or,^;928000;^,or,^;95860004;^,or,^;9631008;^,or,^;98921000119102;^,or,^;^paralyzed^,or,^;^hoyer lift^,or,^;^patient lift^,or,^;^(,^(^trouble^,or,^;^hard^,or,^;^difficulty^,or,^;^partial difficulty^,or,^;^impair^,or,^;^problems^,or,^;^loss^,or,^;^reduced^,or,^;^low^,or,^;^limited^,^),AND,(^mobility^,or,^;^walking^,or,^;^climbing stairs^,or,^;^changing body position^,or,^;^fine hand use^,or,^;^lifting and carrying objects^,or,^;^hand and arm use^,or,^;^moving around^,or,^;^using transportation^,or,^;^moving^,or,^;^transferring self^,or,^;^performing manual tasks^,^),),or,^(,^wheelchair^,AND,(^user^,or,^;^bound^,or,^;^confined^,^),),or,^motorized wheelchair^,or,^;^motorized mobility^,or,^;^own wheelchair^,or,^;^owl wheelchair^,or,^(,^inability to move^,AND,(^arm^,or,^;^leg^,or,^;^upper^,or,^;^lower^,^hand^,or,^;^head^,^),),ANDNOT,(^;S43109^,or,^;S43004^,or,^;S43409^,or,^;M7910^,or,^;M62838^,or,^;M628^,or,^;^chills^,or,^;^fever^,or,^;^generalized body aches^,or,^;^cellulitis^,or,^;^muscle weakness^,or,^;^arrives walking with normal gait^,or,^;^while climbing stairs^,or,^;^after climbing stairs^,or,^(,^sprain^,AND,(^ankle^,or,^;^shoulder^,or,^;^wrist^,or,^;^knee^,or,^;^thumb^,^),),)

Appendix

Definition Evolution During Development: Mobility Disability (v1)

<p>Iteration 1: The first iteration of the definition included domains of Hearing, Vision, Mobility, IDD, and Cognition and Central Nervous System Disorders. This first definition was presented to the scientific panel.</p> <ul style="list-style-type: none">• General<ul style="list-style-type: none">○ The scientific panel suggested we capture more domains and conditions, like those included in disability policies like the Americans with Disabilities Act (ADA). As a result, we excluded conditions generally expected to last less than 6 months, those that can be treated surgically or through medication, and are acute or generally self-limiting conditions (e.g., conditions that do not result in functional impairments or limitations to daily life).○ We included additional domains for Self-care and Learning○ Mapped ICD-10 to ICD-9 where needed
<p>Iteration 2: The second iteration was provided to the scientific panel for feedback and edits. The following changes were made:</p> <ul style="list-style-type: none">• Mobility<ul style="list-style-type: none">○ None
<p>Iteration 3: The third iteration was provided to the scientific panel for feedback and edits. The following changes were made:</p> <ul style="list-style-type: none">• General<ul style="list-style-type: none">○ Added numerous keywords provided during breakout sessions of the scientific panel
<p>Iteration 4: Following the third scientific panel, CDC pilot-tested the definition at the national level. The following changes were made:</p> <ul style="list-style-type: none">• General<ul style="list-style-type: none">○ Added key chief complaint terms discussed during the panel meeting to each domain
<p>Iteration 5: Following state and local pilot testing of the definition, the following changes were made:</p> <ul style="list-style-type: none">• Mobility<ul style="list-style-type: none">○ Cleaned up ICD-9, ICD-10, and SNOMED of duplicate codes in Excel sheet. Kept codes for Spinal cord injury from CCW CMS as well as individual lines for each group of codes to ensure we aren't missing any due to differences in medical coding (e.g. some hospitals will code S22.059A, others will code S22.059).○ Removing ICD codes: S43.109A, S43.004A, S43.409A, M79.10, M62.838, M62.81<ul style="list-style-type: none">▪ All added to exclusions.○ Suggestion to include exclusion terms for "chills", "fever", or "generalized body aches"<ul style="list-style-type: none">▪ All added to exclusions.○ Due to false positive results, added the following terms to exclusions: cellulitis, muscle weakness, sprain AND ankle, shoulder, wrist, knee, or thumb
<p>Iteration 6: Prior to the fourth scientific panel, the definition development team met with members of a project team at the Office of the Assistance Secretary of Planning and Evaluation (ASPE) regarding an ongoing ASPE project to develop a definition for IDD. The definition development team conducted a crosswalk of the two definitions resulting in the following changes:</p> <ul style="list-style-type: none">• Mobility<ul style="list-style-type: none">○ Added all relevant mobility ASPE codes to syntax and Excel

Following feedback from the fourth scientific panel, the following changes were made:

- General
 - Description for how keywords were collected and references to the Washington Group Short Set were added to each relevant fact sheet

Iteration 7: CDC conducted additional round of pilot testing of the definition at the national level to address concerns with inconsistent and/or low PPVs at the state and local level. Due to the scope of proposed revisions as described below, the definition development team decided to hold an ad-hoc fifth scientific panel meeting in May 2024.

- Mobility
 - Removed driving (pulling difficulty with other things while driving to hospital; also pulling car accidents)
 - Added code: R26.89 Other abnormalities of gait and mobility
 - Suggested to remove codes pulling acute injuries including fracture of lumbar vertebra (e.g., S32.009, S32.019, S32.029, S32.039, S32.049, S32.059, S32.10, S32.2) and injury of lumbar and sacral spinal cord and nerves at abdomen, lower back and pelvis level (e.g., S43.0, S43.01, S43.02, S43.1, S43.10, S43.101, S43.102, S43.103, S43.104, S43.105, S43.109, S43.11, S43.111, S43.112, S43.113, S43.114, S43.115, S43.119, S43.12, S43.121, S43.122, S43.123, S43.124, S43.125, S43.129, S43.13, S43.131, S43.132, S43.139, S43.2, S43.21, S43.22, S43.3, S43.4, S43.5, S43.6, S43.8, S43.9).

Iteration 8: Following the fifth and final scientific panel, the following changes were made:

- Mobility
 - Removed codes pulling acute injuries including fracture of lumbar vertebra and injury of lumbar and sacral spinal cord and nerves at abdomen, lower back and pelvis level

Note: Table includes revisions for mobility domain only. See Overall Disability (v1) Definition Fact Sheet & Technical Brief for a full list of revisions.