|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Motor impairments | **Spinal** **cord** **injury** |  |  |  |  |  |  |  |  |  |  |  |  | 27 |  |  | 27 |  |  |  |  |
| **Parkinsons disease** |  |  | 9,34,40, 88 |  |  |  |  |  |  |  |  |  |  | 40, 42, 88 |  | 9, 34, 40, 88 |  | 9,34,40, 51, 88 |  | 40, 88 |
| **Neuro-muscular diseases** **kkk** |  |  |  |  |  |  |  |  |  |  |  |  | 93 |  |  |  |  |  |  | 93 |
| **Neurological cancers** |  |  |  |  |  |  | 8,50 |  |  |  |  |  | 5 |  |  |  |  |  |  | 5 |
| **Neuro-inflammatory diseases** | 2 |  |  |  |  |  |  |  |  |  | 2 | 2 |  |  |  |  |  |  |  |  |
| **Neuro-infections** | 41 |  |  |  |  |  |  |  |  |  |  |  | 41 |  |  |  |  |  | 41,99 |  |
| **Narcolepsy** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Mild Cognitive impairment** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Hydro-cephalus** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 78 |
| **Genetic disorders** | 74 | 46,71 | 60 | 46 | 60 | 87 |  | 87 |  | 47 |  |  | 87, 18 |  |  | 18, 87 |  | 18 | 71 | 46, 87 |
| **Epilepsy** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 77 |  |
| **Developmental disorders** |  | 69 |  |  |  | 69 |  |  |  |  |  |  |  |  | 10 |  | 69 |  | 67, 83 | 4 |
| **Demyelinating diseases** | 33, 81 |  |  |  |  | 81 |  |  |  |  | 81 |  | 81, 23 | 33 |  | 81 |  | 81, 82 | 33, 57 | 44, 81 |
| **Degenerative dementias** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Cervical dystonia** |  |  |  |  |  | 22,48,55 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Cerebro-vascular diseases** | 6 | 7 |  | 7 |  |  | 7 |  |  |  |  |  | 75 |  |  |  |  |  | 75 |  |
| **Brain** **injury** |  | 11, 89,92 |  |  |  | 15 |  |  | 61 |  |  |  | 92 |  |  | 15 |  |  |  | 11, 89 |
| **Birth** **defect** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 19 |  |
|  | **Ataxia** | **Balance**  | **Bradykinesia** | **Coordination**  | **Chorea**  | **Dystonia**  | **Fine motor skills**  | **Gross motor skills**  | **Hypokinesia**  | **Motor timing**  | **Myoclonus**  | **Opsoclonus**  | **Paralysis/****Paresis**  | **Postural instability** | **Selective voluntary motor control (prox. To distal increase.)** | **Hypertonia (Spasticity/****Rigidity)** | **Synkinesia**  | **Tremor** | **Unspecific motor**  | **Walking/Gait**  |

 *Table 1. The 18 neurological disease groups and the articles of the reported 20 motor impairments.*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cognitive/behavioural impairments | **Spinal** **cord** **injury** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Parkinsons disease** |  |  |  | 34 | 1,16,30,34,51,56, 65,73,88 | 1 |  | 9,30,34, 56,73,88 |  |  | 16,34,39,51,56,65,73,88, | 30 |  |  | 56,30,34,73,88 |
| **Neuro-muscular diseases** |  |  |  | 24 |  |  |  | 24,100 |  |  | 24,70 |  |  |  |  |
| **Neurological cancers** |  |  |  |  | 36,38,50, 84 |  |  | 50 |  |  | 50,84 | 36, 38 |  | 5 |  |
| **Neuro-inflammatory diseases** |  |  |  |  |  |  |  |  |  |  |  |  | 2 | 2 |  |
| **Neuro-infections** |  |  |  |  |  |  |  | 99 |  |  | 41 |  | 41 | 99 |  |
| **Narcolepsy** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Mild Cognitive impairment** |  |  | 21 |  | 12 |  | 12 | 12 |  |  | 29 |  |  |  | 12 |
| **Hydro-cephalus** |  |  |  |  | 78 |  |  | 78 |  |  | 78 |  |  |  | 78 |
| **Genetic disorders** |  |  |  |  | 76 |  |  | 32,76 |  |  | 31,32,46, 54,76 | 32 | 74 |  | 32,31 |
| **Epilepsy** |  |  |  |  | 53,77 |  |  |  |  |  | 17,53,77 |  |  |  |  |
| **Developmental disorders** |  |  |  |  | 69,91 |  |  |  |  |  | 91 |  | 63 | 67,83 | 91 |
| **Demyelinating diseases** |  |  |  | 44 | 33 |  |  | 44 |  |  | 44 |  |  |  |  |
| **Degenerative dementias** | 13 | 95 | 21, 49 |  |  |  |  |  |  | 59 | 59,94 |  | 59 |  | 59 |
| **Cervical dystonia** |  |  |  | 22 |  |  |  |  |  |  | 55 |  |  |  |  |
| **Cerebro-vascular diseases** |  |  |  |  |  |  |  | 7,64 |  |  | 7,64 |  | 7 |  | 64 |
| **Brain** **injury** |  | 43,92 |  | 61 | 92 |  |  | 15 | 15 | 15 | 15,92 |  | 15,92 |  | 15 |
| **Birth** **defect** |  |  |  |  |  |  |  |  |  |  |  |  |  | 19 |  |
|  | **Aberrant motor behaviour** | **Agitated behaviour/aggression** | **Anosognosia** | **Apraxia, praxis** | **Attention/****concentration** | **Biological motion** **perception** | **Cognitive fluctuations** | **Executive dysfunction** | **Fluency** | **Impulse control and** **loss of judgement** | **Memory** | **Spatial navigation skills/orientation** | **Unspecific behavioural** | **Unspecific cognitive** | **Visuospatial**  |

 *Table 2. The 18 neurological disease groups and the articles of the reported 15 cognitive/behavioural impairments*.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sensory/sensation and uncategorized impairments | **Spinal** **cord** **injury** |  |  |  |  |  |  |  |  |  |  | 27 |  |  |  |  | 62 |  | 27 |
| **Parkinsons disease** | 72 |  |  |  |  |  |  | 16,51 |  | 25 | 51 | 30,34,40 | 16,51 | 1,16,51 |  | 1,16,36,39,40,51,65 |  | 1,16,3951,65,96 |
| **Neuro-muscular diseases** |  |  |  |  |  |  |  |  |  |  |  | 58 | 93 |  |  | 85 | 93 |  |
| **Neurological cancers** |  |  |  |  |  |  |  | 5,84 |  |  | 84 | 5,36,3850,84 |  |  | 84 | 84 |  | 5 |
| **Neuro-inflammatory diseases** |  |  |  |  |  |  |  |  |  |  |  | 2 |  | 2 |  | 2 |  |  |
| **Neuro-infections** |  | 41 |  |  |  |  |  | 41 |  |  |  | 41 |  |  | 41 |  |  |  |
| **Narcolepsy** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 80 |  |  |
| **Mild Cognitive impairment** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 12 |  |
| **Hydro-cephalus** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Genetic disorders** |  | 86 |  |  |  |  |  | 18 |  |  |  | 18,60,71,74,87 | 18,60, 74 |  | 18, 101 |  |  |  |
| **Epilepsy** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 53 |  |  |
| **Developmental disorders** |  | 4,63,67,68,83 |  |  |  | 3 | 28 | 4,63,67,68,69,83 |  |  |  | 14,26,52,63,68,69,91 | 14,45 | 14,37,45 | 4,20,63,67,68,69 |  |  | 90 |
| **Demyelinating diseases** |  |  | 23,81 | 23,33,81 |  |  | 81 | 33,81 | 57,82 |  | 23,57,81 | 23,33,44,81,98 | 23,81 | 23 | 33,44,81 | 62 |  | 23,33,44, 57,81 |
| **Degenerative dementias** |  |  |  |  |  |  |  |  |  |  |  | 59 |  |  |  |  | 35 |  |
| **Cervical dystonia** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 48 |  |  |
| **Cerebro-vascular diseases** |  |  | 6 | 6 | 97 | 75 |  | 7,6,66 |  |  |  | 6 | 6 |  | 64 | 79 |  |  |
| **Brain** **injury** |  | 92 |  |  |  |  |  | 92 | 92 |  |  | 92 |  |  | 92 | 92 |  | 92 |
| **Birth** **defect** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **biological motion perception** | **Hearing** | **Objective sensory perception.** | **Paresthesia** | **Rhythm perception** | **Somatosensory** | **Tactile registration and perception.** | **Visual** | **Unspecific sensory** | **Abnormal ventilatory control** | **Bowel** | **Communication/****Motor speech/****dysarthric/ aphasia/ dysphasia** | **Dysphagia/swallowing/ chewing/oral phase**  | **Excesses saliva /drooling** | **Seizures/Epilepsies** | **Sleep** | **Stereotypies** | **Urological** |

  *Table 3. The 18 neurological disease groups and the articles of the reported 9 sensory/sensation impairments and 9 uncategorized impairments.*

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