**Supplementary Material 3**

**Definition of late effect of cerebrovascular disease**

**PheWas 433.8, ICD9 438.\* Late effect of cerebrovascular disease**

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| Late effects of cerebrovascular disease |
| Cognitive deficits as late effect of cerebrovascular disease |
| Speech and language deficits as late effect of cerebrovascular disease |
| Speech and language deficit, unspecified, as late effect of cerebrovascular disease |
| Aphasia as late effect of cerebrovascular disease |
| Dysphasia as late effect of cerebrovascular disease |
| Late effects of cerebrovascular disease, dysarthria (ADDED) |
| Late effects of cerebrovascular disease, fluency disorder (ADDED) |
| Other speech and language deficits as late effect of cerebrovascular disease |
| Hemiplegia/hemiparesis as late effect of cerebrovascular disease |
| Hemiplegia affecting unspecified side as late effect of cerebrovascular disease |
| Hemiplegia affecting dominant side as late effect of cerebrovascular disease |
| Hemiplegia affecting nondominant side as late effect of cerebrovascular disease |
| Monoplegia of upper limb as late effect of cerebrovascular disease |
| Monoplegia of upper limb affecting unspecified side as late effect of cerebrovascular disease |
| Monoplegia of upper limb affecting dominant side as late effect of cerebrovascular disease |
| Monoplegia of upper limb affecting nondominant side as late effect of cerebrovascular disease |
| Monoplegia of lower limb as late effect of cerebrovascular disease |
| Monoplegia of lower limb affecting unspecified side as late effect of cerebrovascular disease |
| Monoplegia of lower limb affecting dominant side as late effect of cerebrovascular disease |
| Monoplegia of lower limb affecting nondominant side as late effect of cerebrovascular disease |
| Other paralytic syndrome as late effect of cerebrovascular disease |
| Other paralytic syndrome affecting unspecified side as late effect of cerebrovascular disease |
| Other paralytic syndrome affecting dominant side as late effect of cerebrovascular disease |
| Other paralytic syndrome affecting nondominant side as late effect of cerebrovascular disease |
| Other paralytic syndrome, bilateral |
| Alterations of sensations |
| Disturbances of vision |
| Other late effects of cerebrovascular disease |
| Apraxia as late effect of cerebrovascular disease |
| Dysphagia as late effect of cerebrovascular disease |
| Facial weakness |
| Ataxia as late effect of cerebrovascular disease |
| Vertigo as late effect of cerebrovascular disease |
| Other late effects of cerebrovascular disease |
| Unspecified late effects of cerebrovascular disease**Definition of Transient cerebral ischemia****PheWas 433.31, ICD9 435.\* Transient cerebral ischemia**Transient cerebral ischemiaBasilar artery syndromeVertebral artery syndromeSubclavian steal syndromeVertebrobasilar artery syndromeOther specified transient cerebral ischemiaUnspecified transient cerebral ischemia |