Supplementary materialAppendix

**ICD10 codes used to define complications**

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| **Complications of the central nervous system** |
| **Type of complication** | **ICD10-codes** |
| Encephalitis, meningitis, myelitis | A869, A878, A879, A899, B010-11, G00, G01, G048, G049, G05  |
| Ataxia | R27 |
| Afebrile seizures, status epilepticus | R25, G41-DG419,  |
| Febrile seizures | R56 |
| Other:ADEM, hypertensive encephalopathy, Nervus fascialis disease, Guillain-Barre, stroke, arteritis cerebri, syncope | G369, G51, G610, I674, I61, I63, I64, I677,  |
| **Complications of the muscular-skeletal system** |
| Septic arthritis, osteomyelitis, synovitis, tenesynovitis, myositis | M00, M60, M65, M86 |
| Aseptic arthritis | M015, M018, M028, M029, M036, M13,  |
| **Complications of the blood, circulatory system and heart** |
| Sepsis | A40, A41, P369 |
| Endocarditis, myocarditis | I33, I40 |
| Other: Sickle cell crisis, Henoch-Schonlein purpura, ITP, lymfangitis, DIC, agranulocytosis,  | D690B, D570, D693, D891, D659, D709 |
| **Complications of skin and soft tissue** |
| Infection of skin and soft tissue | A46, L01, L02, L03, L04, L088, L089, H050, M726 |
| Other: scarlet fever, urticarial, erythema multiforme, erythema nodosum, wounds,  | A389, L50, L51, L52, L97, L984C, S01 |
| **Complications of the lower respiratory tract** |
| Pneumonia | B012, J12, J13, J14, J15, J17, J18,  |
| Asthma  | J44, J45 |
| Bronchitis, bronchiolitis | J20, J21, J40, J46 |
| **Complications of the upper respiratory tract** |
| Infections of the upper respiratory tract | H65, H66, H70, J0 |
| **Complications of the eye** |
| Complications of the eye | B30, H01, H10, H11.9, H161 |
| **Complications of the gastrointestinal system** |
| Gastroenteritis | A08, A09, R11 |
| Stomatitis  | K12 |
| Appendicitis  | K35 |
| **Unspecified bacterial infections** |
| Unspecified bacterial infections | A488, A49, B95 |
| **Other** |  |
| Dehydration | E86 |

**ICD10 codes used to define underlying disease**

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| **Underlying condition** | **ICD10 codes** | **Restriction in to time of diagnosis in relation to varicella disease**  |
| **Any cancer (and tumors of the central nervous system)** | C00-C809, C81-C969, D32, D33D42, D43 |  |
| **Autoimmune disease** | D590, D591D693E050E063E271E10G35G70K90K50, K51K73K83M05-M098M32J84M45M33M34H20N00- N059 | If >1 week before varicellaIf >1 week before varicellaIf >1 week before varicella |
| Autoimmune hemolytic anemiaIdiopathic thrombocytopenic purpuraGraves diseaseAutoimmune thyroiditisAddison’s diseaseType 1 diabetesMultiple sclerosisMyasthenia gravisCeliac diseaseInflammatory bowel diseaseAutoimmune hepatitisPrimary sclerosing cholangitisArthritisSystemic lupus erythematosusInterstitial lung diseaseAnkylosing spondylitisDermatomyositisSystemic sclerodermaIridocyclitisGlomerulonephritis |
| **Other Immunosuppressive conditions** | B20-24B80-84, B89D70 Z94D46 | If >1 week before varicella |
| HIVPrimary immune deficiencyNeutropeniaOrgan transplantMyelodysplastic syndrome |
| **Central nervous system and neuromuscular disease** | G11-G138G40G41G71, G72, G73G80-G839DI6G91Q0,Q85 | If >1 week before varicellaIf >1 year before varicella |
| Hereditary ataxia and paraplegia, spinal muscle atrophy etc. EpilepsyStatus EpilepticusDiseases of myoneural junction and muscles Cerebral palsy and other paralytic syndromesCerebrovascular diseasesHydrocephalus Congenital malformations of the nervous system |
| **Heart and circulatory disease** | I1I2I31, I34-I37, I42-I47, I49 I50Q2Q893I7Z950,Z958 |  |
| Hypertensive diseasesIschaemic and pulmonary heart diseaseOther heart diseaseHeart failureCongenital heart malformationSitus inversusDiseases of arteries, arterioles and capillariesPresence of cardiac and vascular implants and grafts |