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, D33  D42, D43 |  |
| **Autoimmune disease** | D590, D591  D693  E050  E063  E271  E10  G35  G70  K90  K50, K51  K73  K83  M05-M098  M32  J84  M45  M33  M34  H20  N00- N059 | If >1 week before varicella  If >1 week before varicella  If >1 week before varicella |
| Autoimmune hemolytic anemia  Idiopathic thrombocytopenic purpura  Graves disease  Autoimmune thyroiditis  Addison’s disease  Type 1 diabetes  Multiple sclerosis  Myasthenia gravis  Celiac disease  Inflammatory bowel disease  Autoimmune hepatitis  Primary sclerosing cholangitis  Arthritis  Systemic lupus erythematosus  Interstitial lung disease  Ankylosing spondylitis  Dermatomyositis  Systemic scleroderma  Iridocyclitis  Glomerulonephritis |
| **Other Immunosuppressive conditions** | B20-24  B80-84, B89  D70  Z94  D46 | If >1 week before varicella |
| HIV  Primary immune deficiency  Neutropenia  Organ transplant  Myelodysplastic syndrome |
| **Central nervous system and neuromuscular disease** | G11-G138  G40  G41  G71, G72, G73  G80-G839  DI6  G91  Q0,Q85 | If >1 week before varicella  If >1 year before varicella |
| Hereditary ataxia and paraplegia, spinal muscle atrophy etc.  Epilepsy  Status Epilepticus  Diseases of myoneural junction and muscles  Cerebral palsy and other paralytic syndromes  Cerebrovascular diseases  Hydrocephalus  Congenital malformations of the nervous system |
| **Heart and circulatory disease** | I1  I2  I31, I34-I37, I42-I47, I49  I50  Q2  Q893  I7  Z950,Z958 |  |
| Hypertensive diseases  Ischaemic and pulmonary heart disease  Other heart disease  Heart failure  Congenital heart malformation  Situs inversus  Diseases of arteries, arterioles and capillaries  Presence of cardiac and vascular implants and grafts |