### Initial Patient Population/Denominator

To be considered a part of the denominator, the patient must be less than 2 years old at the start of the measurement period and greater than 2 years old at the end of the measurement period, and must have a visit during the measurement period.

In addition to the age requirement, the patient must have an encounter during the measurement period with a superbill that includes one of the following CPT codes, or they must have a problem added to their problem list that indicates a face-to-face or consultation interaction:

**CPT codes added to the superbill:**
- Office Visit: 99201, 99202, 99203, 99204, 99205, 99212, 99213, 99214, 99215
- Established Office Visit 0 to 17: 99391, 99392, 99393, 99394
- Preventative Care Services-Initial Office Visit, 0 to 17: 99381, 99382, 99383, 99384
- Home Healthcare Services: 99341, 99342, 99343, 99344, 99345, 99347, 99348, 99349, 99350

**Problem added to the Problem list indicating a Face to Face Interaction:**
- Subsequent hospital visit by physician (procedure)
- Subsequent nursing facility visit (procedure)
- Encounter for "check-up" (procedure)
- Visit out of hours (procedure)
- Weekend visit (procedure)
- Nursing evaluation of patient and report (procedure)
- History and physical examination with evaluation and management of nursing facility patient (procedure)
- Patient-initiated encounter (procedure)
- Provider-initiated encounter (procedure)
- Patient encounter procedure (procedure)
- Follow-up encounter (procedure)
- Urgent follow-up (procedure)
- Home visit (procedure)
- Emergency department patient visit (procedure)
- Follow-up inpatient consultation visit (procedure)
- Initial evaluation and management of healthy individual (procedure)

### Denominator Exclusions

- N/A For this CQM, there are no exclusions.

### Numerator:

Patients in the denominator who **meet one in each of the following criteria sets during the measurement period** will be included in the numerator:
Have one of the following for Dtap:

- 4 Dtap vaccinations between 42 days after their birthdate and their 2nd birthday and on 4 different dates

<table>
<thead>
<tr>
<th>CPT Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>90698</td>
<td>Diphtheria, tetanus toxoids, acellular pertussis vaccine, haemophilus influenza Type B, and poliovirus vaccine, inactivated (DTaP - Hib - IPV), for intramuscular use</td>
</tr>
<tr>
<td>90700</td>
<td>Diphtheria, tetanus toxoids, and acellular pertussis vaccine (DTaP), when administered to individuals younger than 7 years, for intramuscular use</td>
</tr>
<tr>
<td>90721</td>
<td>Diphtheria, tetanus toxoids, and acellular pertussis vaccine and Hemophilus influenza B vaccine (DtaP-Hib), for intramuscular use</td>
</tr>
<tr>
<td>90723</td>
<td>Diphtheria, tetanus toxoids, acellular pertussis vaccine, Hepatitis B, and poliovirus vaccine, inactivated (DtaP-HepB-IPV), for intramuscular use</td>
</tr>
</tbody>
</table>

- Diagnosis Descriptions:
  - First diphtheria, tetanus and acellular pertussis vaccination (procedure)
  - Second diphtheria, tetanus and acellular pertussis vaccination (procedure)
  - Third diphtheria, tetanus and acellular pertussis vaccination (procedure)
  - Low dose diphtheria, tetanus, five component acellular pertussis and inactivated polio vaccination (procedure)
  - Second diphtheria tetanus and five component acellular pertussis, haemophilus influenzae type b, inactivated polio vaccination (procedure)
  - Third diphtheria tetanus and five component acellular pertussis, haemophilus influenzae type b, inactivated polio vaccination (procedure)

- Active diagnosis of reaction to Dtap vaccine by their 2nd birthday
  - Diagnoses Descriptions:
    - Adverse reaction to tetanus vaccine (disorder)
    - Diphtheria and tetanus vaccine adverse reaction (disorder)
    - Diphtheria, tetanus and pertussis vaccine adverse reaction (disorder)
    - Pertussis vaccine adverse reaction (disorder)

- Diagnosis of Encephalopathy before their 2nd birthday
  - Diagnoses Descriptions:
    - Post-immunization encephalitis (disorder)
    - Post tetanus vaccination encephalitis (disorder)
    - Post diphtheria vaccination encephalitis (disorder)
    - Post pertussis vaccination encephalitis (disorder)
    - Post measles vaccination encephalitis (disorder)
    - Post polio vaccination encephalitis (disorder)
    - Post mumps vaccination encephalitis (disorder)
    - Post rubella vaccination encephalitis (disorder)
    - Post influenza vaccination encephalitis (disorder)
    - Post hepatitis A vaccination encephalitis (disorder)
    - Post hepatitis B vaccination encephalitis (disorder)
    - Post mixed vaccination encephalitis (disorder)
    - Postvaccinal encephalomyelitis (disorder)

AND

Have one of the following for IPV
• 3 IPV vaccinations between 42 days after their birthdate and their 2nd birthday and on 3 different dates

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>90698</td>
<td>Diphtheria, tetanus toxoids, acellular pertussis vaccine, haemophilus influenzae Type B, and poliovirus vaccine, inactivated (DTaP - Hib - IPV), for intramuscular use</td>
</tr>
<tr>
<td>90713</td>
<td>Poliovirus vaccine, inactivated (IPV), for subcutaneous or intramuscular use</td>
</tr>
<tr>
<td>90723</td>
<td>Diphtheria, tetanus toxoids, acellular pertussis vaccine, Hepatitis B, and poliovirus vaccine, inactivated (DtaP-HepB-IPV), for intramuscular use</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Diagnosis Description</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Diphtheria, acellular pertussis, hepatitis B and inactivated polio vaccination (procedure)</td>
<td></td>
</tr>
<tr>
<td>Diphtheria tetanus and five component acellular pertussis, haemophilus influenzae type B, inactivated polio vaccination (procedure)</td>
<td></td>
</tr>
<tr>
<td>First diphtheria tetanus and five component acellular pertussis, haemophilus influenzae type B, inactivated polio vaccination (procedure)</td>
<td></td>
</tr>
<tr>
<td>Low dose diphtheria, tetanus and inactivated polio vaccination (procedure)</td>
<td></td>
</tr>
<tr>
<td>Low dose diphtheria, tetanus, five component acellular pertussis and inactivated polio vaccination (procedure)</td>
<td></td>
</tr>
<tr>
<td>Second diphtheria tetanus and five component acellular pertussis, haemophilus influenzae type B, inactivated polio vaccination (procedure)</td>
<td></td>
</tr>
<tr>
<td>Third diphtheria tetanus and five component acellular pertussis, haemophilus influenzae type B, inactivated polio vaccination (procedure)</td>
<td></td>
</tr>
<tr>
<td>Third low dose diphtheria, tetanus and inactivated polio vaccination (procedure)</td>
<td></td>
</tr>
<tr>
<td>First low dose diphtheria, tetanus and inactivated polio vaccination (procedure)</td>
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</tr>
<tr>
<td>First booster low dose diphtheria, tetanus and inactivated polio vaccination (procedure)</td>
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</tr>
<tr>
<td>Second booster low dose diphtheria, tetanus and inactivated polio vaccination (procedure)</td>
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</tr>
<tr>
<td>Second low dose diphtheria, tetanus and inactivated polio vaccination (procedure)</td>
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</tr>
</tbody>
</table>

• Active diagnosis of reaction to IPV vaccine, Streptomycin, Polymyxin, Neomycin by their 2nd birthday
  - Active diagnosis of reaction to IPV vaccine
    - Diagnosis Description: Poliomyelitis vaccine adverse reaction (disorder)
  - Active diagnosis of reaction to Streptomycin
    - Diagnosis Description: Streptomycin adverse reaction (disorder)
  - Active diagnosis of reaction to Polymyxin
    - Diagnosis Description: Polymyxin B adverse reaction (disorder)
  - Active diagnosis of reaction to Neomycin
    - Diagnosis Description: Neomycin adverse reaction (disorder)

**AND**

**Have one of the following for MMR:**
• MMR vaccination by their 2nd birthday

<table>
<thead>
<tr>
<th>CPT Code</th>
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<tbody>
<tr>
<td>90707</td>
<td>Measles, mumps and rubella virus vaccine (MMR), live, for subcutaneous use</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Diagnosis Description</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Measles mumps and rubella vaccination - second dose (procedure)</td>
<td></td>
</tr>
</tbody>
</table>
• Active diagnosis of immune system disorder, HIV, lymphatic neoplasm, or reaction to neomycin by their 2nd birthday
  o Immune System Disorder Diagnoses Descriptions:
    ▪ Immunodeficiency secondary to neoplasm (disorder)
    ▪ Immunodeficiency secondary to trauma (disorder)
    ▪ Immunodeficiency secondary to corticosteroids (disorder)
    ▪ Immunodeficiency secondary to radiation therapy (disorder)
    ▪ Immunodeficiency secondary to chemotherapy (disorder)
    ▪ Quantitative disorder of neutrophils (disorder)
    ▪ Quantitative abnormality of granulocytes (disorder)
    ▪ Chédiak-Higashi syndrome (disorder)
    ▪ Reticular dysgenesis (disorder)
    ▪ Neutropenia associated with autoimmune disease (disorder)
    ▪ Severe combined immunodeficiency due to absent interleukin-2 receptor (disorder)
    ▪ Congenital agammaglobulinemia (disorder)
    ▪ Stress neutrophilia (disorder)
    ▪ Hereditary neutrophilia (disorder)
    ▪ Chronic benign neutropenia of childhood (disorder)
    ▪ Chronic idiopathic immunoneutropenia in adults (disorder)
    ▪ Chronic hypoplastic neutropenia (disorder)
    ▪ Alloimmune neonatal neutropenia (disorder)
    ▪ Agranulocytosis (disorder)
    ▪ Complement abnormality (disorder)
    ▪ Selective immunoglobulin A deficiency (disorder)
    ▪ Selective immunoglobulin M deficiency (disorder)
    ▪ Selective immunoglobulin G deficiency (disorder)
    ▪ Autosomal recessive severe combined immunodeficiency (disorder)
    ▪ Thymic aplasia or dysplasia with immunodeficiency (disorder)
    ▪ Severe combined immunodeficiency with reticular dysgenesis (disorder)
    ▪ Severe combined immunodeficiency with low T- and B-cell numbers (disorder)
    ▪ Severe combined immunodeficiency with low or normal B-cell numbers (disorder)
    ▪ Major histocompatibility complex class I deficiency (disorder)
    ▪ Major histocompatibility complex class II deficiency (disorder)
    ▪ Immunodeficiency following hereditary defective response to Epstein-Barr virus (disorder)
    ▪ Lymphocyte function antigen-1 defect (disorder)
    ▪ Primary splenic neutropenia (disorder)
    ▪ Acquired neutropenia in newborn (disorder)
    ▪ Cyclical neutropenia (disorder)
    ▪ Congenital dysphagocytosis (disorder)
    ▪ X-linked severe combined immunodeficiency (disorder)
    ▪ Chronic granulomatous disease, type IV (disorder)
    ▪ Severe combined immunodeficiency due to absent lymphoid stem cells (disorder)
    ▪ Common variable agammaglobulinemia (disorder)
    ▪ X-linked hypogammaglobulinemia (disorder)
    ▪ Chronic benign neutropenia (disorder)
    ▪ Metabolic neutropenia (disorder)
    ▪ Autoimmune neutropenia (disorder)
    ▪ Corticosteroid-induced neutrophilia (disorder)
    ▪ Myeloperoxidase deficiency (disorder)
    ▪ Hemolytic erythrophagocytic syndrome (disorder)
    ▪ Hemophagocytic lymphohistiocytosis (disorder)
    ▪ Immunodeficiency disorder (disorder)
    ▪ X-linked agammaglobulinemia with growth hormone deficiency (disorder)
- Autosomal agammaglobulinemia with absent B-cells (disorder)
- Immunoglobulin heavy chain deficiency (disorder)
- Selective immunoglobulin E deficiency (disorder)
- Selective immunoglobulin D deficiency (disorder)
- Selective immunoglobulin M and immunoglobulin A deficiency (disorder)
- Immunoglobulin light chain deficiency (disorder)
- Immunoglobulin subclass deficiency (disorder)
- Immunoglobulin G2 deficiency (disorder)
- Combined immunoglobulin G2 and G4 deficiency (disorder)
- Immunoglobulin G3 deficiency (disorder)
- Immunoglobulin G4 deficiency (disorder)
- Immunoglobulin G1 deficiency (disorder)
- Immunoglobulin A1 deficiency (disorder)
- Immunoglobulin A2 deficiency (disorder)
- Immunoglobulin – associated molecule deficiency (disorder)
- Secretory piece deficiency (disorder)
- Defective immunoglobulin glycosylation (disorder)
- Specific antibody deficiency (disorder)
- Anti-polysaccharide antibody deficiency (disorder)
- Anti-haemophilus influenzae B polysaccharide antibody deficiency (disorder)
- Anti-pneumococcal polysaccharide antibody deficiency (disorder)
- Anti-meningococcal polysaccharide A antibody deficiency (disorder)
- Anti-meningococcal polysaccharide C antibody deficiency (disorder)
- Anti-protein antibody deficiency (disorder)
- Anti-staphylococcal antibody deficiency (disorder)
- Primary immunoglobulin catabolism abnormality (disorder)
- Immunoglobulin hypercatabolism (disorder)
- Familial immunoglobulin hypercatabolism (disorder)
- Severe combined immunodeficiency with maternofetal engraftment (disorder)
- Warts, hypogammaglobulinemia, infections, and myelokathexis (disorder)
- Benign combined immunodeficiency (disorder)
- Phagocytic cell defect (disorder)
- Disorder of phagocytic cell number (disorder)
- Chronic familial neutropenia (disorder)
- Lipochrome histiocytosis - familial (disorder)
- Defective phagocytic cell opsonization (disorder)
- Mannan-binding protein deficiency (disorder)
- Defective phagocytic cell chemotaxis (disorder)
- Defective phagocytic cell adhesion (disorder)
- Leukocyte adhesion deficiency - type 1 (disorder)
- Leukocyte adhesion deficiency - type 2 (disorder)
- Tuftsin deficiency (disorder)
- Defective phagocytic cell killing (disorder)
- Leukocyte glucose-6-phosphate dehydrogenase deficiency (disorder)
- Neutrophil lactoferrin deficiency (disorder)
- Neutrophil secondary granule deficiency (disorder)
- Gluthathione synthetase deficiency (disorder)
- Gluthathione peroxidase deficiency (disorder)
- Combined phagocytic defect (disorder)
- Classical complement pathway abnormality (disorder)
- Complement 1q deficiency (disorder)
- Complement 1q beta chain deficiency (disorder)
- Complement 1q dysfunction (disorder)
- Complement 1r deficiency (disorder)
- Complement 1s deficiency (disorder)
- Complement 2 deficiency (disorder)
- Complement 4 deficiency (disorder)
- Complement 4A deficiency (disorder)
- Complement 4B deficiency (disorder)
- Complement 3 deficiency (disorder)
- Alternative pathway deficiency (disorder)
- Factor B deficiency (disorder)
- Factor D deficiency (disorder)
- Terminal component deficiency (disorder)
- Complement 5 deficiency (disorder)
- Complement 6 deficiency (disorder)
- Complement 7 deficiency (disorder)
- Combined complement 6 and 7 deficiencies (disorder)
- Complement 8 beta chain deficiency (disorder)
- Complement 8 beta chain dysfunction (disorder)
- Complement 8 alpha-gamma deficiency (disorder)
- Complement 9 deficiency (disorder)
- Complement regulatory factor defect (disorder)
- Hereditary C1 esterase inhibitor deficiency - deficient factor (disorder)
- Hereditary C1 esterase inhibitor deficiency - dysfunctional factor (disorder)
- Factor I deficiency (disorder)
- Factor H deficiency (disorder)
- Complement 4 binding protein deficiency (disorder)
- Decay accelerating factor deficiency (disorder)
- Homologous restriction factor deficiency (disorder)
- Complement 5a inhibitor deficiency (disorder)
- Anaphylotoxin inactivator deficiency (disorder)
- Complement receptor deficiency (disorder)
- Complement receptor 1 deficiency (disorder)
- Complement receptor 3 deficiency (disorder)
- Immunodeficiency with major anomalies (disorder)
- Immunodeficiency associated with chromosomal abnormality (disorder)
- Centromeric instability of chromosomes 1, 9 and 16 and immunodeficiency (disorder)
- Chromosome 18 syndromes and antibody deficiency (disorder)
- Chromosome 22 abnormalities with hypogammaglobulinemia (disorder)
- Monosomy 22 and absence of immunoglobulin A (disorder)
- Deletion of X-chromosome and hypogammaglobulinemia (disorder)
- Microcephaly, normal intelligence and immunodeficiency (disorder)
- Triple X syndrome, epilepsy, and hypogammaglobulinemia (disorder)
- 18-p syndrome with associated immunodeficiency (disorder)
- Immunodeficiency associated with multiple organ system abnormalities (disorder)
- Age-related immunodeficiency (disorder)
- Transient immunodeficiency of infancy (disorder)
- Drug-induced immunodeficiency (disorder)
- Aplasia of thymus gland with immunodeficiency (disorder)
- Acquired C1 esterase inhibitor deficiency (disorder)
- Disorder of complement (disorder)
- Complement deficiency disease (disorder)
- Familial neutropenia (disorder)
- Chronic idiopathic neutropenia (disorder)
- Myelokathexis (disorder)
- Lymphopenic agammaglobulinemia - short-limbed dwarfism syndrome (disorder)
- Chronic granulomatous disease, type IIA (disorder)
- Complement 5 dysfunction (disorder)
- Agranulocytopenic disorder (disorder)
- Neutropenia due to irradiation (disorder)
- Functional disorders of polymorphonuclear neutrophils (disorder)
- Chloramphenicol-induced neutropenia (disorder)
- Immunoglobulin A deficiency (disorder)
- Chronic granulomatous disease, type I (disorder)
- Phagocytic cell dysfunction (disorder)
- Neutropenic disorder (disorder)
- Severe combined immunodeficiency disease (disorder)
- Toxic neutropenia (disorder)
- Secondary immune deficiency disorder (disorder)
- Severe combined immunodeficiency due to absent peripheral T cell maturation (disorder)
- De Vaal's syndrome (disorder)
- Reticular dysgenesis with congenital aleukocytosis (disorder)
- Acquired immunodeficiency syndrome with dermatomyositis (disorder)
- Wiskott-Aldrich syndrome (disorder)
- Congenital immunodeficiency disease (disorder)
- Autosomal recessive severe combined immunodeficiency disease (disorder)
- Complement component deficiency (disorder)
- Congenital immunodeficiency involving the hematopoietic system (disorder)
- Severe combined immunodeficiency due to absent adenosine deaminase (disorder)
- Hypopigmentation-immunodeficiency disease (disorder)
- Chronic granulomatous disease (disorder)
- Non dose-related drug-induced neutropenia (disorder)
- Familial C3B inhibitor deficiency syndrome (disorder)
- Familial hemophagocytic lymphohistiocytosis (disorder)
- Chronic granulomatous disease, type IA (disorder)
- Immunodeficiency with multienzyme deficiency (disorder)
- B-lymphocyte immunodeficiency (disorder)
- T-lymphocyte immunodeficiency (disorder)
- Wiskott-Aldrich autosomal dominant variant syndrome (disorder)
- Febrile neutropenia (disorder)
- Neutrophilia (disorder)
- Neutropenia associated with AIDS (disorder)
- Immunoglobulin deficiency (disorder)
- Neutropenia with dysgranulopoiesis (disorder)
- Agranulocytosis associated with AIDS (disorder)
- Chemotherapy-induced neutropenia (disorder)
- Combined immunodeficiency disease (disorder)
- Bloom syndrome (disorder)
- Adenosine deaminase deficiency (disorder)
- Severe combined immunodeficiency due to absent interleukin-2 production (disorder)
- Kappa light chain disease (disorder)
- Neutropenia associated with infectious disease (disorder)
- Acute neutrophilia (disorder)
- Drug-induced neutropenia (disorder)
- Dysplasia of thymus gland with immunodeficiency (disorder)
- Severe combined immunodeficiency due to absent T cell receptor (disorder)
- Job's syndrome (disorder)
- Transient neonatal neutropenia (disorder)
- Nezelof's syndrome (disorder)
- Dose-related drug-induced neutropenia (disorder)
- Congenital hypergammaglobulinemia (disorder)
- Primary immune deficiency disorder (disorder)
- Purine-nucleoside phosphorylase deficiency (disorder)
- Acquired immune deficiency syndrome (AIDS) (disorder)
- Drug-induced neutrophilia (disorder)
- Immune neutropenia (disorder)
- X-linked agammaglobulinemia (disorder)
- Lambda light chain disease (disorder)
- Ataxia-telangiectasia syndrome (disorder)
- Pseudoneutrophilia (disorder)
- Lazy leukocyte syndrome (disorder)
- Neutrophilic leukemoid reaction (disorder)
- Severe combined immunodeficiency due to absent class II human leukocyte antigens (disorder)
- Agranulocytic angina (disorder)
- Chronic granulomatous disease, type IVA (disorder)
- Acquired immunodeficiency syndrome with Salmonella infection (disorder)
- X-linked lymphoproliferative syndrome (disorder)
- Chronic granulomatous disease, type II (disorder)
- Congenital leukocyte adherence deficiency (disorder)
- Isoimmune neutropenia (disorder)
- Immunoglobulinemia with isolated somatotropin deficiency (disorder)
- Chronic neutrophilia (disorder)
- Properdin deficiency disease (disorder)
- Hyperimmunoglobulin M syndrome (disorder)
- Chronic granulomatous disease, type III (disorder)
- Hereditary angioneurotic edema (disorder)
- Transient hypogammaglobulinemia of infancy (disorder)
- Shwachman syndrome (disorder)
- Congenital neutropenia (disorder)
- Immunodeficiency with thymoma (disorder)

- HIV Diagnoses Descriptions:
  - Acute HIV infection (disorder)
  - Human immunodeficiency virus infection constitutional disease (disorder)
  - Human immunodeficiency virus infection with neurological disease (disorder)
  - Human immunodeficiency virus infection with secondary clinical infectious disease (disorder)
  - Human immunodeficiency virus with secondary cancers (disorder)
  - Human immunodeficiency virus disease resulting in mycobacterial infection (disorder)
  - Human immunodeficiency virus (HIV) disease resulting in cytomegaloviral disease (disorder)
  - Human immunodeficiency virus disease resulting in candidiasis (disorder)
  - Human immunodeficiency virus disease resulting in multiple infections (disorder)
  - Human immunodeficiency virus disease resulting in Burkitt's lymphoma (disorder)
  - Human immunodeficiency virus (HIV) disease resulting in multiple malignant neoplasms (disorder)
  - Human immunodeficiency virus disease resulting in lymphoid interstitial pneumonitis (disorder)
  - Human immunodeficiency virus leukoencephalopathy (disorder)
  - Human immunodeficiency virus myelitis (disorder)
  - Neuropathy due to human immunodeficiency virus (disorder)
  - Human immunodeficiency virus-associated periodontitis (disorder)
  - Human immunodeficiency virus enteropathy (disorder)
  - Human immunodeficiency virus myopathy (disorder)
  - Congenital human immunodeficiency virus positive status syndrome (disorder)
  - Human immunodeficiency virus infection with aseptic meningitis (disorder)
  - Acquired immunodeficiency syndrome with dermatomyositis (disorder)
  - Human immunodeficiency virus encephalopathy (disorder)
  - Human immunodeficiency virus encephalitis (disorder)
  - Human immunodeficiency virus seroconversion exanthem (disorder)
  - Human immunodeficiency virus seropositivity (disorder)
  - Human immunodeficiency virus I infection (disorder)
  - Human immunodeficiency virus infection with infectious mononucleosis-like syndrome (disorder)
  - Congenital human immunodeficiency virus infection (disorder)
  - Human immunodeficiency virus infection with infection by another virus (disorder)
  - Acquired immunodeficiency syndrome-like syndrome (disorder)
  - Acquired immune deficiency syndrome (AIDS) (disorder)
  - Acquired immunodeficiency syndrome with Salmonella infection (disorder)
- Human immunodeficiency virus II infection (disorder)
- Human immunodeficiency virus infection (disorder)
- Human immunodeficiency virus infection with acute lymphadenitis (disorder)
- Asymptomatic human immunodeficiency virus infection (disorder)

- Lymphatic Neoplasms Diagnoses Descriptions:
  - Hodgkin's, lymphocytic-histiocytic predominance of spleen (disorder)
  - Hodgkin's disease, lymphocytic predominance - nodular (disorder)
  - Diffuse non-Hodgkin's lymphoma (disorder)
  - Diffuse non-Hodgkin's lymphoma, undifferentiated (disorder)
  - Diffuse non-Hodgkin's lymphoma, lymphoblastic (disorder)
  - Diffuse non-Hodgkin's lymphoma, immunoblastic (disorder)
  - Diffuse non-Hodgkin's lymphoma, small cleaved cell (disorder)
  - Diffuse non-Hodgkin's lymphoma, small cell (disorder)
  - Diffuse non-Hodgkin's lymphoma, large cell (disorder)
  - Follicular non-Hodgkin's lymphoma, small cleaved cell (disorder)
  - Follicular non-Hodgkin's lymphoma, mixed small cleaved cell and large cell (disorder)
  - Follicular non-Hodgkin's lymphoma, large cell (disorder)
  - T-zone lymphoma (disorder)
  - Lymphoepithelioid lymphoma (disorder)
  - Peripheral T-cell lymphoma (disorder)
  - T-cell lymphoma (disorder)
  - B-cell lymphoma (disorder)
  - Adult T-cell leukemia/lymphoma (disorder)
  - Hodgkin's disease (disorder)
  - Malignant lymphoma (disorder)
  - Non-Hodgkin's lymphoma (disorder)
  - Hodgkin's granuloma (disorder)
  - Hodgkin lymphoma, nodular lymphocyte predominance (disorder)
  - Hodgkin's sarcoma (disorder)
  - Hodgkin lymphoma, lymphocyte-rich (disorder)
  - Hodgkin's disease, nodular sclerosis (disorder)
  - Hodgkin's disease, mixed cellularity (disorder)
  - Hodgkin's disease, lymphocytic depletion (disorder)
  - Malignant histiocytosis (disorder)
  - Hairy cell leukemia (disorder)
  - Langerhans cell histiocytosis, disseminated (disorder)
  - Malignant mast cell tumor (disorder)
  - Burkitt's lymphoma (disorder)
  - Mycosis fungoides (disorder)
  - Malignant lymphoma of lymph nodes (disorder)
  - Cutaneous CD30+ lymphoproliferative disorder (disorder)
  - Primary cutaneous CD30 antigen positive large T-cell lymphoma (disorder)
  - Orbital lymphoma (disorder)
  - Human immunodeficiency virus disease resulting in Burkitt's lymphoma (disorder)
  - Lymphosarcoma and reticulosarcoma (disorder)
  - Reticulosarcoma of lymph nodes of head, face and neck (disorder)
  - Reticulosarcoma of lymph nodes of axilla and upper limb (disorder)
  - Reticulosarcoma of lymph nodes of inguinal region and lower limb (disorder)
  - Lymphosarcoma (disorder)
  - Lymphosarcoma of lymph nodes of head, face and neck (disorder)
  - Lymphosarcoma of intrathoracic lymph nodes (disorder)
  - Lymphosarcoma of intra-abdominal lymph nodes (disorder)
  - Lymphosarcoma of lymph nodes of axilla and upper limb (disorder)
  - Lymphosarcoma of lymph nodes of inguinal region and lower limb (disorder)
  - Lymphosarcoma of intrapelvic lymph nodes (disorder)
  - Lymphosarcoma of spleen (disorder)
- Lymphosarcoma of lymph nodes of multiple sites (disorder)
- Burkitt's lymphoma of lymph nodes of head, face and neck (disorder)
- Burkitt's lymphoma of intrathoracic lymph nodes (disorder)
- Burkitt's lymphoma of intra-abdominal lymph nodes (disorder)
- Burkitt's lymphoma of lymph nodes of axilla and upper limb (disorder)
- Burkitt's lymphoma of lymph nodes of inguinal region and lower limb (disorder)
- Burkitt's lymphoma of intrapelvic lymph nodes (disorder)
- Burkitt's lymphoma of spleen (disorder)
- Burkitt's lymphoma of lymph nodes of multiple sites (disorder)
- Hodgkin's paragranuloma of intrathoracic lymph nodes (disorder)
- Hodgkin's paragranuloma of intra-abdominal lymph nodes (disorder)
- Hodgkin's paragranuloma of intrapelvic lymph nodes (disorder)
- Hodgkin's paragranuloma of lymph nodes of multiple sites (disorder)
- Hodgkin's granuloma of lymph nodes of head, face and neck (disorder)
- Hodgkin's granuloma of intra-abdominal lymph nodes (disorder)
- Hodgkin's granuloma of lymph nodes of axilla and upper limb (disorder)
- Hodgkin's granuloma of lymph nodes of inguinal region and lower limb (disorder)
- Hodgkin's granuloma of lymph nodes of multiple sites (disorder)
- Hodgkin's sarcoma of lymph nodes of head, face and neck (disorder)
- Hodgkin's sarcoma of lymph nodes of axilla and upper limb (disorder)
- Hodgkin's sarcoma of lymph nodes of inguinal region and lower limb (disorder)
- Hodgkin's sarcoma of lymph nodes of multiple sites (disorder)
- Hodgkin's disease, lymphocytic-histiocytic predominance of lymph nodes of head, face and neck (disorder)
- Hodgkin's disease, lymphocytic-histiocytic predominance of lymph nodes of axilla and upper limb (disorder)
- Hodgkin's disease, lymphocytic-histiocytic predominance of lymph nodes of inguinal region and lower limb (disorder)
- Hodgkin's disease, lymphocytic-histiocytic predominance of lymph nodes of multiple sites (disorder)
- Hodgkin's disease, nodular sclerosis of lymph nodes of head, face and neck (disorder)
- Hodgkin's disease, nodular sclerosis of intrathoracic lymph nodes (disorder)
- Hodgkin's disease, nodular sclerosis of intra-abdominal lymph nodes (disorder)
- Hodgkin's disease, nodular sclerosis of lymph nodes of axilla and upper limb (disorder)
- Hodgkin's disease, nodular sclerosis of lymph nodes of inguinal region and lower limb (disorder)
- Hodgkin's disease, nodular sclerosis of intrapelvic lymph nodes (disorder)
- Hodgkin's disease, nodular sclerosis of lymph nodes of multiple sites (disorder)
- Hodgkin's disease, mixed cellularity of lymph nodes of head, face and neck (disorder)
- Hodgkin's disease, mixed cellularity of intrathoracic lymph nodes (disorder)
- Hodgkin's disease, mixed cellularity of intra-abdominal lymph nodes (disorder)
- Hodgkin's disease, mixed cellularity of lymph nodes of axilla and upper limb (disorder)
- Hodgkin's disease, mixed cellularity of lymph nodes of inguinal region and lower limb (disorder)
- Hodgkin's disease, mixed cellularity of lymph nodes of multiple sites (disorder)
- Hodgkin's disease, mixed cellularity of intrapelvic lymph nodes (disorder)
- Hodgkin's disease, lymphocytic depletion of lymph nodes of head, face and neck (disorder)
- Hodgkin's disease, lymphocytic depletion of intrathoracic lymph nodes (disorder)
- Hodgkin's disease, lymphocytic depletion of intra-abdominal lymph nodes (disorder)
- Hodgkin's disease, lymphocytic depletion of lymph nodes of axilla and upper limb (disorder)
- Hodgkin's disease, lymphocytic depletion of lymph nodes of inguinal region and lower limb (disorder)
- Hodgkin's disease, lymphocytic depletion of intrapelvic lymph nodes (disorder)
- Hodgkin's disease, lymphocytic depletion of spleen (disorder)
- Hodgkin's disease, lymphocytic depletion of lymph nodes of multiple sites (disorder)
- Nodular lymphoma of lymph nodes of head, face and neck (disorder)
- Nodular lymphoma of lymph nodes of axilla and upper limb (disorder)
- Nodular lymphoma of lymph nodes of inguinal region and lower limb (disorder)
- Mycosis fungoides of lymph nodes of multiple sites (disorder)
- Sézary's disease of lymph nodes of head, face and neck (disorder)
- Sézary's disease of intrathoracic lymph nodes (disorder)
- Sézary's disease of intra-abdominal lymph nodes (disorder)
- Sézary's disease of lymph nodes of axilla and upper limb (disorder)
- Sézary's disease of lymph nodes of inguinal region and lower limb (disorder)
- Sézary's disease of intrapelvic lymph nodes (disorder)
- Sézary's disease of lymph nodes of multiple sites (disorder)
- Malignant histiocytosis of lymph nodes of head, face and neck (disorder)
- Malignant histiocytosis of lymph nodes of axilla and upper limb (disorder)
- Malignant histiocytosis of lymph nodes of inguinal region and lower limb (disorder)
- Leukemic reticuloendotheliosis of lymph nodes of head, face and neck (disorder)
- Leukemic reticuloendotheliosis of lymph nodes of axilla and upper limb (disorder)
- Leukemic reticuloendotheliosis of lymph nodes of inguinal region and lower limb (disorder)
- Leukemic reticuloendotheliosis of spleen (disorder)
- Malignant mast cell tumors (disorder)
- Follicular non-Hodgkin's mixed small cleaved and large cell lymphoma (disorder)
- Diffuse malignant lymphoma - small non-cleaved cell (disorder)
- Malignant lymphoma - small cleaved cell (disorder)
- Malignant lymphoma - mixed small and large cell (disorder)
- Diffuse non-Hodgkin's lymphoma undifferentiated (diffuse) (disorder)
- Malignant plasma cell neoplasm, extramedullary plasmacytoma (disorder)
- Lymphoma of retina (disorder)
- Lymphoma of kidney (disorder)
- African Burkitt's lymphoma (disorder)
- Proliferating angioendotheliomatosis (disorder)
- Sézary disease of skin (disorder)
- Angioendotheliomatosis (disorder)
- Nodular lymphoma (disorder)
- Malignant lymphoma - lymphocytic, intermediate differentiation (disorder)
- Gastric lymphoma (disorder)
- Lymphoma of intestine (disorder)
- Primary cerebral lymphoma (disorder)
- B-cell chronic lymphocytic leukemia (disorder)
- B-cell chronic lymphocytic leukemia variant (disorder)
- T-cell chronic lymphocytic leukemia (disorder)
- T-cell prolymphocytic leukemia (disorder)
- Hairy cell leukemia variant (disorder)
- Hodgkin's disease, lymphocytic predominance - diffuse (disorder)
- Hodgkin's disease, nodular sclerosis - lymphocytic predominance (disorder)
- Hodgkin's disease, nodular sclerosis - mixed cellularity (disorder)
- Hodgkin's disease, nodular sclerosis - lymphocytic depletion (disorder)
- Cutaneous/peripheral T-cell lymphoma (disorder)
- Prethymic and thymic T-cell lymphoma/leukemia (disorder)
- Low grade B-cell lymphoma (disorder)
- Diffuse low grade B-cell lymphoma (disorder)
- High grade B-cell lymphoma (disorder)
- Follicular low grade B-cell lymphoma (disorder)
- Mucosa-associated lymphoma (disorder)
- Monocytoid B-cell lymphoma (disorder)
- Follicular malignant lymphoma - mixed cell type (disorder)
- Follicular malignant lymphoma - small cleaved cell (disorder)
- Diffuse high grade B-cell lymphoma (disorder)
- Nodular high grade B-cell lymphoma (disorder)
- Diffuse malignant lymphoma - large cleaved cell (disorder)
- Diffuse malignant lymphoma - large non-cleaved cell (disorder)
- Diffuse malignant lymphoma - centroblastic polymorphic (disorder)
- Large cell anaplastic lymphoma (disorder)
- Follicular malignant lymphoma - large cell (disorder)
- Low grade T-cell lymphoma (disorder)
- High grade T-cell lymphoma (disorder)
- Peripheral T-cell lymphoma - pleomorphic small cell (disorder)
- Peripheral T-cell lymphoma - pleomorphic medium and large cell (disorder)
- Enteropathy-associated T-cell lymphoma (disorder)
- Malignant lymphoma of testis (disorder)
- Malignant lymphoma of thyroid gland (disorder)
- Malignant lymphoma of breast (disorder)
- Intermediate grade B-cell lymphoma (disorder)
- Malignant lymphoma - small lymphocytic (disorder)
- Diffuse malignant lymphoma - centroblastic (disorder)
- Nodular malignant lymphoma, lymphocytic - well differentiated (disorder)
- Nodular malignant lymphoma, lymphocytic - intermediate differentiation (disorder)
- Malignant lymphoma, convoluted cell type (disorder)
- Malignant lymphoma, follicular center cell (disorder)
- Malignant lymphoma, follicular center cell, cleaved (disorder)
- Malignant lymphoma, follicular center cell, non-cleaved (disorder)
- Atypical hairy cell leukemia (disorder)
- Prolymphocytic lymphosarcoma (disorder)
- Malignant lymphoma - lymphoplasmacytic (disorder)
- Diffuse malignant lymphoma - centroblastic-centrocytic (disorder)
- Malignant lymphoma - centroblastic (disorder)
- Hodgkin’s disease, lymphocytic depletion, diffuse fibrosis (disorder)
- Hodgkin’s disease, lymphocytic depletion, reticulat type (disorder)
- Hodgkin’s disease, nodular sclerosis - cellular phase (disorder)
- Malignant lymphoma, mixed sclerosis, nodular (disorder)
- Malignant lymphoma, centroblastic-centrocytic, follicular (disorder)
- Malignant lymphoma, lymphocytic, poorly differentiated, nodular (disorder)
- Malignant lymphoma, centroblastic type, follicular (disorder)
- Microglioma (disorder)
- Histiocytic medullary reticulosis (disorder)
- Follicular non-Hodgkin’s lymphoma (disorder)
- Lymphomatoid papulosis (disorder)
- Malignant tumor of pelvis (disorder)
- Malignant lymphoma, large cell, polymorphous, immunoblastic (disorder)
- Reticulosarcoma (disorder)
- Primary cutaneous lymphoma (disorder)
- Primary cutaneous T-cell lymphoma (disorder)
- Primary cutaneous large T-cell lymphoma (disorder)
- Primary cutaneous B-cell lymphoma (disorder)
- Hodgkin’s disease affecting skin (disorder)
- Lymphomatoid papulosis type A (CD-30 positive type) (disorder)
- Lymphomatoid papulosis type B - mycosis fungoides-like (disorder)
- Lymphomatoid papulosis type C (anaplastic large-cell lymphoma-like) (disorder)
- Lymphomatoid papulosis with Hodgkin’s disease (disorder)
- Patch/plaque stage mycosis fungoides (disorder)
- Poikilodermaous mycosis fungoides (disorder)
- Follicular mucinosis type mycosis fungoides (disorder)
- Hypomelanotic mycosis fungoides (disorder)
- Lymphomatoid papulosis-associated mycosis fungoides (disorder)
- Granulomatous mycosis fungoides (disorder)
- Tumor stage mycosis fungoides (disorder)
- Erythrodermic mycosis fungoides (disorder)
- Bullous mycosis fungoides (disorder)
- Mycosis fungoides with systemic infiltration (disorder)
- Spongiotic mycosis fungoides (disorder)
- Syringotropic mycosis fungoides (disorder)
- Pagetoid reticulosis (disorder)
- Localized pagetoid reticulosis (disorder)
- Generalized pagetoid reticulosis (disorder)
- Leukemic infiltration of skin (chronic T-cell lymphocytic leukemia) (disorder)
- Leukemic infiltration of skin (T-cell prolymphocytic leukemia) (disorder)
- CD-30 positive anaplastic large T-cell cutaneous lymphoma (disorder)
- CD-30 positive pleomorphic large T-cell cutaneous lymphoma (disorder)
- CD-30 positive T-immunoblastic cutaneous lymphoma (disorder)
- CD-30 negative cutaneous T-cell lymphoma (disorder)
- CD-30 negative anaplastic large T-cell cutaneous lymphoma (disorder)
- CD-30 negative pleomorphic large T-cell cutaneous lymphoma (disorder)
- CD-30 negative T-immunoblastic cutaneous lymphoma (disorder)
- Pleomorphic small/medium-sized cell cutaneous T-cell lymphoma (disorder)
- Subcutaneous panniculitic cutaneous T-cell lymphoma (disorder)
- Anaplastic large T-cell systemic malignant lymphoma (disorder)
- Angiocentric NK/T-cell malignant lymphoma involving skin (disorder)
- Aggressive NK-cell leukemia involving skin (disorder)
- Precursor B-cell lymphoblastic lymphoma involving skin (disorder)
- Small lymphocytic B-cell lymphoma involving skin (disorder)
- Leukemic infiltration of skin in hairy-cell leukemia (disorder)
- Primary cutaneous marginal zone B-cell lymphoma (disorder)
- Primary cutaneous immunocytoma (disorder)
- Primary cutaneous plasmacytoma (disorder)
- Primary cutaneous follicular center B-cell lymphoma (disorder)
- Primary cutaneous diffuse large cell B-cell lymphoma (disorder)
- Primary cutaneous anaplastic large cell B-cell lymphoma (disorder)
- Primary cutaneous diffuse large cell B-cell lymphoma of the leg (disorder)
- Follicular center B-cell lymphoma (nodal/systemic with skin involvement) (disorder)
- Diffuse large B-cell lymphoma (nodal/systemic with skin involvement) (disorder)
- Lymphoplasmacytic B-cell lymphoma, nodal/systemic with skin involvement (disorder)
- Mantle cell B-cell lymphoma (nodal/systemic with skin involvement) (disorder)
- Specific skin infiltration in Hodgkin's disease (disorder)
- Malignant histiocytosis involving skin (disorder)
- Angioimmunoblastic T-cell lymphoma (disorder)
- Extranodal NK/T-cell lymphoma, nasal type (disorder)
- Mucosa-associated lymphoid tissue lymphoma of orbit (disorder)
- Multiple solitary plasmacytomas (disorder)
- Plasmacytoma (disorder)
- Reticulosarcoma associated with AIDS (disorder)
- Malignant lymphoma of the eye region (disorder)
- Intraocular non-Hodgkin malignant lymphoma (disorder)
- Precursor T-cell lymphoblastic lymphoma (disorder)
- Primary lymphoma of brain associated with AIDS (disorder)
- Immunoblastic lymphoma associated with AIDS (disorder)
- Burkitt's lymphoma associated with AIDS (disorder)
- Lymphoma of retroperitoneal space (disorder)
- Hodgkin's disease in remission (disorder)
- Solitary osseous myeloma (disorder)
- Hodgkin's disease, lymphocytic depletion of lymph nodes of head (disorder)
- Mantle cell lymphoma of spleen (disorder)
- Large cell lymphoma of intrapelvic lymph nodes (disorder)
- Non-Hodgkin lymphoma associated with Human immunodeficiency virus infection (disorder)
- Mantle cell lymphoma (disorder)
- Extranodal marginal zone lymphoma of mucosa-associated lymphoid tissue of stomach (disorder)
- Primary mediastinal (thymic) large B-cell lymphoma (disorder)
- Extramedullary marginal zone B-cell lymphoma of mucosa-associated lymphoid tissue (disorder)
- Hepatosplenic T-cell lymphoma (disorder)
- Marginal zone lymphoma (disorder)
- Lymphoma of pylorus of stomach (disorder)
- Lymphoma of fundus of stomach (disorder)
- Lymphoma of pyloric antrum of stomach (disorder)
- Lymphoma of greater curvature of stomach (disorder)
- Lymphoma of cardia of stomach (disorder)
- Non-Hodgkin's lymphoma of extranodal site (disorder)
- Anaplastic lymphoma kinase negative anaplastic large cell lymphoma (disorder)
- Diffuse non-Hodgkin's lymphoma of prostate (disorder)
- Follicular non-Hodgkin's lymphoma of prostate (disorder)
- Non-Hodgkin's lymphoma of bone (disorder)
- Follicular non-Hodgkin's lymphoma of nose (disorder)
- Non-Hodgkin's lymphoma of central nervous system (disorder)
- Lymphoma of lesser curvature of stomach (disorder)
- Follicular non-Hodgkin's lymphoma of soft tissue (disorder)
- Diffuse non-Hodgkin's lymphoma of nasopharynx (disorder)
- Non-Hodgkin's lymphoma of intestine (disorder)
- Non-Hodgkin's lymphoma of nasopharynx (disorder)
- Non-Hodgkin's lymphoma of lung (disorder)
- Non-Hodgkin's lymphoma of ovary (disorder)
- Non-Hodgkin's lymphoma of nose (disorder)
- Non-Hodgkin's lymphoma of oral cavity (disorder)
- Non-Hodgkin's lymphoma of testis (disorder)
- Non-Hodgkin's lymphoma of skin (disorder)
- Diffuse non-Hodgkin's lymphoma of testis (disorder)
- Diffuse non-Hodgkin's lymphoma of oral cavity (disorder)
- Lymphoma of pelvis (disorder)
- Lymphoma of body of stomach (disorder)
- Diffuse non-Hodgkin's lymphoma of extranodal site (disorder)
- Follicular non-Hodgkin's lymphoma of extranodal site (disorder)
- Diffuse non-Hodgkin's lymphoma of uterine cervix (disorder)
- Diffuse non-Hodgkin's lymphoma of ovary (disorder)
- Diffuse non-Hodgkin's lymphoma of stomach (disorder)
- Follicular non-Hodgkin's lymphoma of bone (disorder)
- Follicular non-Hodgkin's lymphoma of lung (disorder)
- Non-Hodgkin's lymphoma of stomach (disorder)
- Non-Hodgkin's lymphoma of soft tissue (disorder)
- Non-Hodgkin's lymphoma of uterine cervix (disorder)
- Follicular non-Hodgkin's lymphoma of skin (disorder)
- Diffuse non-Hodgkin's lymphoma of lung (disorder)
- Follicular non-Hodgkin's lymphoma of central nervous system (disorder)
- Lymphoma of lower esophagus (disorder)
- Follicular non-Hodgkin's lymphoma of tonsil (disorder)
- Follicular non-Hodgkin's lymphoma of uterine cervix (disorder)
- Follicular non-Hodgkin's lymphoma of oral cavity (disorder)
- Diffuse non-Hodgkin's lymphoma of nose (disorder)
- Lymphoma of gastrointestinal tract (disorder)
- Lymphoma of small intestine (disorder)
- Lymphoma of cardioesophageal junction (disorder)
- Diffuse non-Hodgkin's lymphoma of tonsil (disorder)
- Diffuse non-Hodgkin's lymphoma of intestine (disorder)
- Diffuse non-Hodgkin's lymphoma of bone (disorder)
- Diffuse non-Hodgkin's lymphoma of soft tissue (disorder)
- Diffuse non-Hodgkin's lymphoma of skin (disorder)
- Lymphoma of sigmoid colon (disorder)
- Follicular non-Hodgkin's lymphoma of nasopharynx (disorder)
- Diffuse follicle center lymphoma (disorder)
- Diffuse non-Hodgkin's lymphoma of central nervous system (disorder)
- Follicular non-Hodgkin's lymphoma of stomach (disorder)
- Non-Hodgkin's lymphoma of tonsil (disorder)
- Follicular non-Hodgkin's lymphoma of ovary (disorder)
- Non-Hodgkin's lymphoma of prostate (disorder)
- Follicular non-Hodgkin's lymphoma of testis (disorder)
- Follicular non-Hodgkin's lymphoma of intestine (disorder)
- Lethal midline granuloma (disorder)
- Burkitt's tumor of intra-abdominal lymph nodes (disorder)
- Burkitt's tumor of intrapelvic lymph nodes (disorder)
- Burkitt's tumor of intrathoracic lymph nodes (disorder)
- Burkitt's tumor of lymph nodes of axilla AND/OR upper limb (disorder)
- Burkitt's tumor of lymph nodes of head, face AND/OR neck (disorder)
- Burkitt's tumor of lymph nodes of inguinal region AND/OR lower limb (disorder)
- Burkitt's tumor of lymph nodes of multiple sites (disorder)
- Burkitt's tumor of spleen (disorder)
- Burkitt's tumor of extranodal AND/OR solid organ site (disorder)
- Letterer-Siwé disease of intra-abdominal lymph nodes (disorder)
- Letterer-Siwé disease of intrapelvic lymph nodes (disorder)
- Letterer-Siwé disease of intrathoracic lymph nodes (disorder)
- Letterer-Siwé disease of lymph nodes of axilla AND/OR upper limb (disorder)
- Letterer-Siwé disease of lymph nodes of head, face AND/OR neck (disorder)
- Letterer-Siwé disease of lymph nodes of inguinal region AND/OR lower limb (disorder)
- Letterer-Siwé disease of lymph nodes of multiple sites (disorder)
- Letterer-Siwé disease of spleen (disorder)
- Letterer-Siwé disease of extranodal AND/OR solid organ site (disorder)
- Leukemic reticuloendotheliosis of intra-abdominal lymph nodes (disorder)
- Leukemic reticuloendotheliosis of intrapelvic lymph nodes (disorder)
- Leukemic reticuloendotheliosis of intrathoracic lymph nodes (disorder)
- Leukemic reticuloendotheliosis of lymph nodes of axilla AND/OR upper limb (disorder)
- Leukemic reticuloendotheliosis of lymph nodes of head, face AND/OR neck (disorder)
- Leukemic reticuloendotheliosis of lymph nodes of inguinal region AND/OR lower limb (disorder)
- Leukemic reticuloendotheliosis of lymph nodes of multiple sites (disorder)
- Leukemic reticuloendotheliosis of spleen (disorder)
- Hairy cell leukemia of spleen (disorder)
- Leukemic reticuloendotheliosis of extranodal AND/OR solid organ site (disorder)
- Malignant histiocytosis of intra-abdominal lymph nodes (disorder)
- Malignant histiocytosis of intrapelvic lymph nodes (disorder)
- Malignant histiocytosis of intrathoracic lymph nodes (disorder)
- Malignant histiocytosis of lymph nodes of axilla AND/OR upper limb (disorder)
- Malignant histiocytosis of lymph nodes of head, face AND/OR neck (disorder)
- Malignant histiocytosis of lymph nodes of inguinal region AND/OR lower limb (disorder)
- Malignant histiocytosis of lymph nodes of multiple sites (disorder)
- Malignant histiocytosis of spleen (disorder)
- Malignant histiocytosis of extranodal AND/OR solid organ site (disorder)
- Malignant lymphoma of intra-abdominal lymph nodes (disorder)
- Malignant lymphoma of intrapelvic lymph nodes (disorder)
- Malignant lymphoma of intrathoracic lymph nodes (disorder)
- Malignant lymphoma of lymph nodes of axilla AND/OR upper limb (disorder)
- Malignant lymphoma of lymph nodes of head, face AND/OR neck (disorder)
- Malignant lymphoma of lymph nodes of inguinal region AND/OR lower limb (disorder)
- Malignant lymphoma of lymph nodes of multiple sites (disorder)
- Malignant lymphoma of spleen (disorder)
- Malignant lymphoma of extranodal AND/OR solid organ site (disorder)
- Malignant mast cell tumor of intra-abdominal lymph nodes (disorder)
- Malignant mast cell tumor of infrapelvic lymph nodes (disorder)
- Malignant mast cell tumor of intrathoracic lymph nodes (disorder)
- Malignant mast cell tumor of lymph nodes of axilla AND/OR upper limb (disorder)
- Malignant mast cell tumor of lymph nodes of head, face AND/OR neck (disorder)
- Malignant mast cell tumor of lymph nodes of inguinal region AND/OR lower limb (disorder)
- Malignant mast cell tumor of lymph nodes of multiple sites (disorder)
- Malignant mast cell tumor of spleen (disorder)
- Malignant mast cell tumor of extranodal AND/OR solid organ site (disorder)
- Hodgkin's disease, lymphocytic depletion of lymph nodes of axilla AND/OR upper limb (disorder)
- Hodgkin's disease, lymphocytic depletion of lymph nodes of head, face AND/OR neck (disorder)
- Hodgkin's disease, lymphocytic depletion of lymph nodes of inguinal region AND/OR lower limb (disorder)
- Hodgkin's disease, lymphocytic depletion of extranodal AND/OR solid organ site (disorder)
- Hodgkin's disease, lymphocytic-histiocytic predominance of intra-abdominal lymph nodes (disorder)
- Hodgkin's disease, lymphocytic-histiocytic predominance of infrapelvic lymph nodes (disorder)
- Hodgkin's disease, lymphocytic-histiocytic predominance of intrathoracic lymph nodes (disorder)
- Hodgkin's disease, lymphocytic-histiocytic predominance of lymph nodes of axilla AND/OR upper limb (disorder)
- Hodgkin's disease, lymphocytic-histiocytic predominance of lymph nodes of head, face AND/OR neck (disorder)
- Hodgkin's disease, lymphocytic-histiocytic predominance of lymph nodes of inguinal region AND/OR lower limb (disorder)
- Hodgkin's disease, lymphocytic-histiocytic predominance of extranodal AND/OR solid organ site (disorder)
- Hodgkin's disease, mixed cellularity of lymph nodes of axilla AND/OR upper limb (disorder)
- Hodgkin's disease, mixed cellularity of lymph nodes of head, face AND/OR neck (disorder)
- Hodgkin's disease, mixed cellularity of lymph nodes of inguinal region AND/OR lower limb (disorder)
- Hodgkin's disease, mixed cellularity of spleen (disorder)
- Hodgkin's disease, mixed cellularity of extranodal AND/OR solid organ site (disorder)
- Hodgkin's disease, nodular sclerosis of lymph nodes of axilla AND/OR upper limb (disorder)
- Hodgkin's disease, nodular sclerosis of lymph nodes of head, face AND/OR neck (disorder)
- Hodgkin's disease, nodular sclerosis of lymph nodes of inguinal region AND/OR lower limb (disorder)
- Hodgkin's disease, nodular sclerosis of spleen (disorder)
- Hodgkin's disease, nodular sclerosis of extranodal AND/OR solid organ site (disorder)
- Hodgkin's disease of intra-abdominal lymph nodes (disorder)
- Hodgkin's disease of infrapelvic lymph nodes (disorder)
- Hodgkin's disease of intrathoracic lymph nodes (disorder)
- Hodgkin's disease of lymph nodes of axilla AND/OR upper limb (disorder)
- Hodgkin's disease of lymph nodes of head, face AND/OR neck (disorder)
- Hodgkin's disease of lymph nodes of inguinal region AND/OR lower limb (disorder)
- Hodgkin's disease of lymph nodes of multiple sites (disorder)
- Hodgkin's disease of spleen (disorder)
- Hodgkin's disease of extranodal AND/OR solid organ site (disorder)
- Hodgkin's granuloma of infrapelvic lymph nodes (disorder)
- Hodgkin's granuloma of intrathoracic lymph nodes (disorder)
- Hodgkin's granuloma of lymph nodes of axilla AND/OR upper limb (disorder)
- Hodgkin's granuloma of lymph nodes of head, face AND/OR neck (disorder)
- Hodgkin's granuloma of lymph nodes of inguinal region AND/OR lower limb (disorder)
- Hodgkin's granuloma of spleen (disorder)
- Hodgkin's granuloma of extranodal AND/OR solid organ site (disorder)
- Hodgkin's paragranuloma of lymph nodes of axilla AND/OR upper limb (disorder)
- Hodgkin's paragranuloma of lymph nodes of head, face AND/OR neck (disorder)
- Hodgkin's paragranuloma of lymph nodes of inguinal region AND/OR lower limb (disorder)
• Hodgkin's paragranuloma of spleen (disorder)
• Hodgkin's paragranuloma of extranodal AND/OR solid organ site (disorder)
• Hodgkin's sarcoma of intra-abdominal lymph nodes (disorder)
• Hodgkin's sarcoma of intrapelvic lymph nodes (disorder)
• Hodgkin's sarcoma of intrathoracic lymph nodes (disorder)
• Hodgkin's sarcoma of lymph nodes of axilla AND/OR upper limb (disorder)
• Hodgkin's sarcoma of lymph nodes of head, face AND/OR neck (disorder)
• Hodgkin's sarcoma of lymph nodes of inguinal region AND/OR lower limb (disorder)
• Hodgkin's sarcoma of spleen (disorder)
• Hodgkin's sarcoma of extranodal AND/OR solid organ site (disorder)
• Primary malignant neoplasm of bone marrow (disorder)
• Mixed cell type lymphosarcoma of intra-abdominal lymph nodes (disorder)
• Mixed cell type lymphosarcoma of intrapelvic lymph nodes (disorder)
• Mixed cell type lymphosarcoma of intrathoracic lymph nodes (disorder)
• Mixed cell type lymphosarcoma of lymph nodes of head, face, and neck (disorder)
• Mycosis fungoides of intra-abdominal lymph nodes (disorder)
• Mycosis fungoides of intrapelvic lymph nodes (disorder)
• Mycosis fungoides of intrathoracic lymph nodes (disorder)
• Mycosis fungoides of lymph nodes of axilla AND/OR upper limb (disorder)
• Mycosis fungoides of lymph nodes of head, face AND/OR neck (disorder)
• Mycosis fungoides of lymph nodes of inguinal region AND/OR lower limb (disorder)
• Mycosis fungoides of spleen (disorder)
• Mycosis fungoides of extranodal AND/OR solid organ site (disorder)
• Nodular lymphoma of intra-abdominal lymph nodes (disorder)
• Nodular lymphoma of intrapelvic lymph nodes (disorder)
• Nodular lymphoma of intrathoracic lymph nodes (disorder)
• Nodular lymphoma of lymph nodes of multiple sites (disorder)
• Nodular lymphoma of spleen (disorder)
• Nodular lymphoma of extranodal AND/OR solid organ site (disorder)
• Reticulosarcoma of intra-abdominal lymph nodes (disorder)
• Reticulosarcoma of intrapelvic lymph nodes (disorder)
• Reticulosarcoma of intrathoracic lymph nodes (disorder)
• Reticulosarcoma of lymph nodes of multiple sites (disorder)
• Reticulosarcoma of spleen (disorder)
• Sézary's disease of lymph nodes of head, face AND/OR neck (disorder)
• Sézary's disease of lymph nodes of inguinal region AND/OR lower limb (disorder)
• Sézary's disease of spleen (disorder)
• Sézary's disease of extranodal AND/OR solid organ site (disorder)

  o Reaction to Neomycin Diagnoses Descriptions:
    ▪ Neomycin adverse reaction (disorder)

• Any combination of diagnoses and labs to determine patient has had measles, mumps, and rubella by their 2nd birthday
  
  o Measles Diagnoses Descriptions:
    ▪ Measles without complication (disorder)
    ▪ Measles (disorder)
    ▪ Measles complicated by meningitis (disorder)
    ▪ Measles with intestinal complications (disorder)
    ▪ Subacute sclerosing panencephalitis (disorder)
    ▪ Measles pneumonia (disorder)
    ▪ Giant cell pneumonia (disorder)
    ▪ Atypical measles (disorder)
    ▪ Modified measles (disorder)
    ▪ Measles keratitis (disorder)
    ▪ Measles with complication (disorder)
    ▪ Measles of the central nervous system (disorder)
    ▪ Measles keratoconjunctivitis (disorder)
- Measles myocarditis (disorder)

- Mumps Diagnoses Descriptions:
  - Mumps pancreatitis (disorder)
  - Mumps without complication (disorder)
  - Mumps nephritis (disorder)
  - Mumps acute sialadenitis (disorder)
  - Mumps epididymo-orchitis (disorder)
  - Mastitis of mumps (disorder)
  - Mumps parotitis (disorder)
  - Mumps submandibular sialadenitis (disorder)
  - Mumps sublingual sialadenitis (disorder)
  - Mumps polyneuropathy (disorder)
  - Mumps encephalitis (disorder)
  - Mumps (disorder)
  - Mumps meningoencephalitis (disorder)
  - Mumps meningitis (disorder)
  - Mumps myocarditis (disorder)
  - Mumps thyroiditis (disorder)
  - Mumps with complication (disorder)
  - Mumps oophoritis (disorder)
  - Mumps orchitis (disorder)
  - Mumps arthritis (disorder)
Rubella Diagnoses Descriptions:
- Progressive rubella panencephalitis (disorder)
- Rubella without complication (disorder)
- Rubella infection of central nervous system (disorder)
- Rubella meningoencephalitis (disorder)
- Congenital rubella syndrome (disorder)
- Rubella with neurological complication (disorder)
- Rubella deafness (disorder)
- Rubella arthritis (disorder)
- Endocochlear rubella (disorder)
- Hemorrhagic rubella (disorder)
- Rubella cataract (disorder)
- Rubella (disorder)
- Rubella myocarditis (disorder)
- Expanded rubella syndrome (disorder)
- Rubella with complication (disorder)

Rubella Lab Tests (with Positive Results Received Through an Interface):

<table>
<thead>
<tr>
<th>LOINC Code</th>
<th>Test Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>22497-2</td>
<td>Rubella virus Ab [Titer] in Serum</td>
</tr>
<tr>
<td>40542-3</td>
<td>Rubella virus Ab [Titer] in Cerebral spinal fluid by Latex agglutination</td>
</tr>
<tr>
<td>41763-4</td>
<td>Rubella virus IgG Ab [Titer] in Serum</td>
</tr>
<tr>
<td>42967-0</td>
<td>Rubella virus Ab [Titer] in Cerebral spinal fluid</td>
</tr>
<tr>
<td>46109-5</td>
<td>Rubella virus IgM Ab [Titer] in Cerebral spinal fluid</td>
</tr>
<tr>
<td>46110-3</td>
<td>Rubella virus IgG Ab [Titer] in Cerebral spinal fluid</td>
</tr>
<tr>
<td>49107-6</td>
<td>Rubella virus IgM Ab [Titer] in Serum</td>
</tr>
<tr>
<td>50694-9</td>
<td>Rubella virus Ab [Titer] in Serum by Hemagglutination inhibition</td>
</tr>
<tr>
<td>5333-0</td>
<td>Rubella virus Ab [Titer] in Serum by Latex agglutination</td>
</tr>
</tbody>
</table>

AND

Have one of the following for HiB:
- 3 HiB vaccinations between 42 days after their birthdate and their 2nd birthday and on 3 different dates

<table>
<thead>
<tr>
<th>CPT Code</th>
<th>Test Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>90645</td>
<td>Hemophilus influenza b vaccine (Hib), HbOC conjugate (4 dose schedule), for intramuscular use</td>
</tr>
<tr>
<td>90646</td>
<td>Hemophilus influenza b vaccine (Hib), PRP-D conjugate, for booster use only, intramuscular use</td>
</tr>
<tr>
<td>90647</td>
<td>Hemophilus influenza b vaccine (Hib), PRP-OMP conjugate (3 dose schedule), for intramuscular use</td>
</tr>
<tr>
<td>90648</td>
<td>Hemophilus influenza b vaccine (Hib), PRP-T conjugate (4 dose schedule), for intramuscular use</td>
</tr>
</tbody>
</table>
CPT Code: 90721  Diphtheria, tetanus toxoids, and acellular pertussis vaccine and Hemophilus influenza B vaccine (DtaP-Hib), for intramuscular use

CPT Code: 90748  Hepatitis B and Hemophilus influenza b vaccine (HepB-Hib), for intramuscular use

Diagnosis Description: Haemophilus influenzae type b vaccination (procedure)

Diagnosis Description: First haemophilus B vaccination (procedure)

Diagnosis Description: Second haemophilus B vaccination (procedure)

Diagnosis Description: Third haemophilus B vaccination (procedure)

Diagnosis Description: Diphtheria tetanus and five component acellular pertussis, haemophilus influenzae type b, inactivated polio vaccination (procedure)

Diagnosis Description: First diphtheria tetanus and five component acellular pertussis, haemophilus influenzae type b, inactivated polio vaccination (procedure)

Diagnosis Description: Second diphtheria tetanus and five component acellular pertussis, haemophilus influenzae type b, inactivated polio vaccination (procedure)

Diagnosis Description: Third diphtheria tetanus and five component acellular pertussis, haemophilus influenzae type b, inactivated polio vaccination (procedure)

- Active diagnosis of reaction to HiB vaccine by their 2nd birthday
  - Diagnosis Description: Haemophilus influenzae Type B vaccine adverse reaction (disorder)

AND

Have one of the following for Hepatitis B:
- 3 Hepatitis B vaccinations by their 2nd birthday and on 3 different dates

CPT Code: 90723  Diphtheria, tetanus toxoids, acellular pertussis vaccine, Hepatitis B, and poliovirus vaccine, inactivated (DtaP-HepB-IPV), for intramuscular use

CPT Code: 90740  Hepatitis B vaccine, dialysis or immunosuppressed patient dosage (3 dose schedule), for intramuscular use

CPT Code: 90744  Hepatitis B vaccine, pediatric/adolescent dosage (3 dose schedule), for intramuscular use

CPT Code: 90747  Hepatitis B vaccine, dialysis or immunosuppressed patient dosage (4 dose schedule), for intramuscular use

CPT Code: 90748  Hepatitis B and Hemophilus influenza b vaccine (HepB-Hib), for intramuscular use

Diagnosis Description: Intramuscular injection of Hepatitis B Virus immune globulin, human (procedure)

Diagnosis Description: Hepatitis B vaccination (procedure)

Diagnosis Description: First hepatitis B vaccination (procedure)

Diagnosis Description: Second hepatitis B vaccination (procedure)

Diagnosis Description: Third hepatitis B vaccination (procedure)

Diagnosis Description: Booster hepatitis B vaccination (procedure)

Diagnosis Description: Fourth hepatitis B vaccination (procedure)
Diagnosis Description: First combined hepatitis A and B vaccination (procedure)

Diagnosis Description: Second combined hepatitis A and B vaccination (procedure)

Diagnosis Description: Third combined hepatitis A and B vaccination (procedure)

Diagnosis Description: Booster combined hepatitis A and B vaccination (procedure)

Diagnosis Description: Combined hepatitis A and B vaccination (procedure)

Diagnosis Description: Diphtheria, acellular pertussis, hepatitis B and inactivated polio vaccination (procedure)

- Active diagnosis of reaction to Hep B vaccine or reaction to baker's yeast by their 2nd birthday
  - Diagnosis Description: Hepatitis B vaccine adverse reaction (disorder)
  - Diagnosis Description: Bakers' asthma (disorder) or Allergic reaction to flour dust (disorder)
- Diagnosis of Hep B by their 2nd birthday
  - Diagnoses Descriptions:
    - Chronic aggressive type B viral hepatitis (disorder)
    - Viral hepatitis B without hepatic coma (disorder)
    - Acute fulminating type B viral hepatitis (disorder)
    - Viral hepatitis B with coma (disorder)
    - Acute hepatitis B with delta agent (coinfection) with hepatic coma (disorder)
    - Acute hepatitis B with delta-agent (coinfection) without hepatic coma (disorder)
    - Chronic viral hepatitis B without delta-agent (disorder)
    - Acute hepatitis B with hepatitis D (disorder)
    - Chronic viral hepatitis B with hepatitis D (disorder)
    - Hepatitis B carrier (finding)
    - Viral hepatitis B with hepatic coma (disorder)
    - Relapsing type B viral hepatitis (disorder)
    - Chronic persistent type B viral hepatitis (disorder)
    - Acute hepatitis B with hepatic coma (disorder)
    - Chronic hepatitis B with hepatic coma (disorder)
    - Hepatitis B with hepatitis D superinfection (disorder)
    - Hepatitis B associated with Human immunodeficiency virus infection (disorder)
    - Hepatitis B and hepatitis C (disorder)
    - Reactivation of hepatitis B viral hepatitis (disorder)
    - Chronic active type B viral hepatitis (disorder)
    - Anicteric type B viral hepatitis (disorder)
    - Congenital viral hepatitis B infection (disorder)
    - Chronic type B viral hepatitis (disorder)
    - Type B viral hepatitis (disorder)
    - Acute type B viral hepatitis (disorder)
- Hep B positive lab result by their 2nd birthday (with Positive Results Received Through an Interface):

<table>
<thead>
<tr>
<th>LOINC Code</th>
<th>Test Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>32019-2</td>
<td>Hepatitis B virus surface Ab [Titer] in Serum</td>
</tr>
<tr>
<td>32178-6</td>
<td>Hepatitis B virus e Ag [Titer] in Serum</td>
</tr>
</tbody>
</table>

AND

Have one of the following for VZV:

- VZV vaccination by their 2nd birthday
CPT Code: 90710  
Measles, mumps, rubella, and varicella vaccine (MMRV), live, for subcutaneous use

CPT Code: 90716  
Varicella virus vaccine, live, for subcutaneous use

**Diagnosis Description:** First varicella vaccination (procedure)

**Diagnosis Description:** Second varicella vaccination (procedure)

**Diagnosis Description:** Varicella vaccination (procedure)

- Active diagnosis of immune system disorder, HIV, lymphatic neoplasm, or reaction to neomycin by their 2nd birthday
  - Please [click here](#) for the list of diagnoses descriptions for Immune System Disorder
  - Please [click here](#) for the list of diagnoses descriptions for HIV
  - Please [click here](#) for the list of diagnoses descriptions for Lymphatic Neoplasm
  - Diagnosis Description for Reaction to Neomycin: Neomycin adverse reaction (disorder)
- Diagnosis of VZV by their 2nd birthday
  - diagnoses Descriptions for VZV:
    - Herpes zoster with meningitis (disorder)
    - Herpes zoster iridocyclitis (disorder)
    - Herpes zoster without complication (disorder)
    - Herpes zoster with nervous system complication (disorder)
    - Herpes zoster with ophthalmic complication (disorder)
    - Herpes zoster with dermatitis of eyelid (disorder)
    - Chickenpox pneumonia (disorder)
    - Herpes zoster auricularis (disorder)
    - Herpes zoster encephalitis (disorder)
    - Varicella transverse myelitis (disorder)
    - Amyotrophy due to herpes zoster (disorder)
    - Acute trigeminal herpes zoster (disorder)
    - Acute herpes zoster pharyngitis (disorder)
    - Herpes zoster infection of oral mucosa (disorder)
    - Chickenpox with complication (disorder)
    - Neurological varicella (disorder)
    - Thoracic herpes zoster infection (disorder)
    - Lumbar herpes zoster infection (disorder)
    - Maxillary herpes zoster infection (disorder)
    - Mandibular herpes zoster infection (disorder)
    - Multidermatomal herpes zoster infection (disorder)
    - Acute cerebellar ataxia due to varicella (disorder)
    - Varicella-zoster virus infection (disorder)
    - Otitis externa due to Herpes zoster (disorder)
    - Varicella (disorder)
    - Herpes zoster keratitis (disorder)
    - Herpes zoster dermatitis (disorder)
    - Herpes zoster involving cervical dermatome (disorder)
    - Herpes zoster involving sacral dermatome (disorder)
    - Hutchinson's sign (disorder)
    - Herpes zoster conjunctivitis (disorder)
    - Herpes zoster retinitis (disorder)
    - Herpes zoster associated with AIDS (disorder)
    - Herpes zoster subepithelial infiltrates (disorder)
    - Herpes zoster acute retinal necrosis (disorder)
    - Herpes zoster corneal epitheliopathy (disorder)
- Exanthem due to chicken pox (disorder)
- Acute herpes zoster neuropathy (disorder)
- Corneal haze due to herpes zoster (disorder)
- Herpes zoster pseudodendrites (disorder)
- Herpes zoster keratoconjunctivitis (disorder)
- Herpes zoster corneal endotheliolitis (disorder)
- Herpes zoster radiculitis (disorder)
- Herpes zoster retinal pigment epithelial detachment (disorder)
- Herpes zoster interstitial keratitis (disorder)
- Exanthem due to herpes zoster (disorder)
- Herpes zoster (disorder)
- Herpes zoster with complication (disorder)
- Disseminated herpes zoster (disorder)
- Herpes zoster ophthalmicus (disorder)

- VZV positive lab result by their 2nd birthday (with Positive Results Received Through an Interface):

<table>
<thead>
<tr>
<th>LOINC Code</th>
<th>Test Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>21592-1</td>
<td>Varicella zoster virus Ab [Titer] in Cerebral spinal fluid</td>
</tr>
<tr>
<td>21594-7</td>
<td>Varicella zoster virus Ab [Titer] in Serum</td>
</tr>
<tr>
<td>21595-4</td>
<td>Varicella zoster virus IgG Ab [Titer] in Cerebral spinal fluid by Immunofluorescence</td>
</tr>
<tr>
<td>21596-2</td>
<td>Varicella zoster virus IgM Ab [Titer] in Cerebral spinal fluid by Immunofluorescence</td>
</tr>
<tr>
<td>22601-9</td>
<td>Varicella zoster virus IgG Ab [Titer] in Cerebral spinal fluid</td>
</tr>
<tr>
<td>22602-7</td>
<td>Varicella zoster virus IgG Ab [Titer] in Serum</td>
</tr>
<tr>
<td>22605-0</td>
<td>Varicella zoster virus IgM Ab [Titer] in Cerebral spinal fluid</td>
</tr>
<tr>
<td>22606-8</td>
<td>Varicella zoster virus IgM Ab [Titer] in Serum</td>
</tr>
<tr>
<td>26723-7</td>
<td>Varicella zoster virus Ab [Titer] in Cerebral spinal fluid by Immunofluorescence</td>
</tr>
<tr>
<td>33327-8</td>
<td>Varicella zoster virus Ab [Titer] in Cerebral spinal fluid by Complement fixation</td>
</tr>
<tr>
<td>44771-4</td>
<td>Varicella zoster virus Ab [Titer] in Serum by Immunofluorescence</td>
</tr>
<tr>
<td>5401-5</td>
<td>Varicella zoster virus Ab [Titer] in Serum by Complement fixation</td>
</tr>
<tr>
<td>5402-3</td>
<td>Varicella zoster virus Ab [Titer] in Serum by Latex agglutination</td>
</tr>
<tr>
<td>6569-8</td>
<td>Varicella zoster virus IgG Ab [Titer] in Serum by Immunofluorescence</td>
</tr>
<tr>
<td>6570-6</td>
<td>Varicella zoster virus IgM Ab [Titer] in Serum by Immunofluorescence</td>
</tr>
</tbody>
</table>

**AND**

**Have one of the following for PCV:**

- 4 PCV vaccinations between 42 days after their birthdate and their 2nd birthday and on 4 different dates

<table>
<thead>
<tr>
<th>CPT Code</th>
<th>Test Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>90669</td>
<td>Pneumococcal conjugate vaccine, 7 valent, for intramuscular use</td>
</tr>
<tr>
<td>90670</td>
<td>Pneumococcal conjugate vaccine, 13 valent, for intramuscular use</td>
</tr>
</tbody>
</table>

**AND**

**Active diagnosis of reaction to PCV vaccine by their 2nd birthday**
- Diagnosis Description: Pneumococcal vaccine adverse reaction (disorder)
Have one of the following for Hepatitis A:

- Hepatitis A vaccine by their 2nd birthday
  - **CPT Code:** 90633
  - Hepatitis A vaccine, pediatric/adolescent dosage-2 dose schedule, for intramuscular use

<table>
<thead>
<tr>
<th>Diagnosis Description:</th>
<th>First hepatitis A vaccination (procedure)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diagnosis Description:</td>
<td>Second hepatitis A vaccination (procedure)</td>
</tr>
<tr>
<td>Diagnosis Description:</td>
<td>Hepatitis A immunization (procedure)</td>
</tr>
<tr>
<td>Diagnosis Description:</td>
<td>First hepatitis A junior vaccination (procedure)</td>
</tr>
<tr>
<td>Diagnosis Description:</td>
<td>Second hepatitis A junior vaccination (procedure)</td>
</tr>
</tbody>
</table>

- Active diagnosis of reaction to Hep A vaccine by their 2nd birthday
  - Diagnosis Description: Hepatitis A vaccine adverse reaction (disorder)
- Diagnosis of Hep A by their 2nd birthday
  - Diagnoses Descriptions:
    - Viral hepatitis A without hepatic coma (disorder)
    - Viral hepatitis A with hepatic coma (disorder)
    - Viral hepatitis A with coma (disorder)
    - Acute fulminating type A viral hepatitis (disorder)
    - Congenital hepatitis A infection (disorder)
    - Acute type A viral hepatitis (disorder)
    - Viral hepatitis, type A (disorder)
    - Viral hepatitis A without hepatic coma, without hepatitis delta (disorder)
    - Relapsing type A viral hepatitis (disorder)
    - Anicteric type A viral hepatitis (disorder)
- Hep A positive lab result by their 2nd birthday (with Positive Results Received Through an Interface):
  - **LOINC Code** | **Test Description** |
  - 22312-3 | Hepatitis A virus Ab [Units/volume] in Serum |
  - 22313-1 | Hepatitis A virus IgG Ab [Units/volume] in Serum |
  - 22315-6 | Hepatitis A virus IgM Ab [Units/volume] in Serum |
  - 5179-7 | Hepatitis A virus IgG Ab [Units/volume] in Serum by Immunoassay |
  - 5181-7 | Hepatitis A virus IgM Ab [Units/volume] in Serum by Immunoassay |
  - 5183-9 | Hepatitis A virus Ab [Units/volume] in Serum by Immunoassay |

AND

Have one of the following for Rotavirus:

- 2 Rotavirus vaccinations of the 2 dose vaccine between 42 days after their birthdate and their 2nd birthday and on 2 different dates
  - **CPT Code:** 90681
  - Rotavirus vaccine, human, attenuated, 2 dose schedule, live, for oral use

| Diagnosis Description: | Rotavirus vaccination, 2 dose schedule (procedure) |

- 3 Rotavirus vaccinations of the 3 dose vaccine between 42 days after their birthdate and their 2nd birthday and on 3 different dates
CPT Code: 90680  
**Rotavirus vaccine, pentavalent, 3 dose schedule, live, for oral use**

**Diagnosis Description:** Rotavirus vaccination, 3 dose schedule (procedure)

- 3 Rotavirus vaccinations of combination of the 3 dose and 2 dose vaccine between 42 days after their birthdate and their 2nd birthday and on 3 different dates
  - See CPT and Diagnosis Descriptions for 2 dose and 3 dose.
- Active diagnosis of reaction to Rotavirus vaccine by their 2nd birthday
  - Diagnosis Description: Anaphylaxis due to rotavirus vaccine (disorder)

**AND**

**Have one of the following for Flu:**
- 2 Flu vaccinations between 180 days after their birthdate and their 2nd birthday and on 2 different dates

<table>
<thead>
<tr>
<th>CPT Code:</th>
<th>Influenza virus vaccine, trivalent, split virus, preservative free, when administered to children 6-35 months of age, for intramuscular use</th>
</tr>
</thead>
<tbody>
<tr>
<td>90655</td>
<td></td>
</tr>
<tr>
<td>CPT Code: 90657</td>
<td>Influenza virus vaccine, trivalent, split virus, when administered to children 6-35 months of age, for intramuscular use</td>
</tr>
<tr>
<td>CPT Code: 90661</td>
<td>Influenza virus vaccine, derived from cell cultures, subunit, preservative and antibiotic free, for intramuscular use</td>
</tr>
<tr>
<td>CPT Code: 90662</td>
<td>Influenza virus vaccine, split virus, preservative free, enhanced immunogenicity via increased antigen content, for intramuscular use</td>
</tr>
<tr>
<td>Diagnosis Description:</td>
<td>Influenza vaccination (procedure)</td>
</tr>
</tbody>
</table>

- Active diagnosis of reaction to flu vaccine, immune system disorders, HIV, lymphatic neoplasm, or reaction to neomycin by their 2nd birthday
  - Reaction to Flu Vaccine Diagnosis Description: Influenza virus vaccine adverse reaction (disorder)
  - Please [click here](#) for the list of diagnoses descriptions for Immune System Disorder
  - Please [click here](#) for the list of diagnoses descriptions for HIV
  - Please [click here](#) for the list of diagnoses descriptions for Lymphatic Neoplasm
  - Reaction to Neomyacin Diagnosis Description: Neomycin adverse reaction (disorder)