

Pediatric Quality Indicators Appendices

APPENDIX F: High-Risk Immunocompromised State Diagnosis and Procedure Codes

High-risk immunocompromised state diagnosis codes: (IMMUNHD)

ICD-9-CM	Description	ICD-10-CM	Description
042	HUMAN IMMUNODEFICIENCY VIRUS (HIV) DISEASE	B20	Human immunodeficiency virus [HIV] disease
1363	PNEUMOCYSTOSIS	B59	Pneumocystosis
1992	Malignant neoplasm associated with transplanted organ	C802	Malignant neoplasm associated with transplanted organ
20000	RETCLSRC UNSP XTRNDL ORG	C8300	Small cell B-cell lymphoma, unspecified site
20001	RETICULOSARCOMA HEAD	C8301	Small cell B-cell lymphoma, lymph nodes of head, face, and neck
20002	RETICULOSARCOMA THORAX	C8302	Small cell B-cell lymphoma, intrathoracic lymph nodes
20003	RETICULOSARCOMA ABDOM	C8303	Small cell B-cell lymphoma, intra-abdominal lymph nodes
20004	RETICULOSARCOMA AXILLA	C8304	Small cell B-cell lymphoma, lymph nodes of axilla and upper limb
20005	RETICULOSARCOMA INGUIN	C8305	Small cell B-cell lymphoma, lymph nodes of inguinal region and lower limb
20006	RETICULOSARCOMA PELVIC	C8306	Small cell B-cell lymphoma, intrapelvic lymph nodes
20007	RETICULOSARCOMA SPLEEN	C8307	Small cell B-cell lymphoma, spleen
20008	RETICULOSARCOMA MULT	C8308	Small cell B-cell lymphoma, lymph nodes of multiple sites
20010	LYMPHSRC UNSP XTRNDL ORG	C8309	Small cell B-cell lymphoma, extranodal and solid organ sites
20011	LYMPHOSARCOMA HEAD	C8330	Diffuse large B-cell lymphoma, unspecified site
20012	LYMPHOSARCOMA THORAX	C8331	Diffuse large B-cell lymphoma, lymph nodes of head, face, and neck
20013	LYMPHOSARCOMA ABDOM	C8332	Diffuse large B-cell lymphoma, intrathoracic lymph nodes
20014	LYMPHOSARCOMA AXILLA	C8333	Diffuse large B-cell lymphoma, intra-abdominal lymph nodes
20015	LYMPHOSARCOMA INGUIN	C8334	Diffuse large B-cell lymphoma, lymph nodes of axilla and upper limb
20016	LYMPHOSARCOMA PELVIC	C8335	Diffuse large B-cell lymphoma, lymph nodes of inguinal region and lower limb
20017	LYMPHOSARCOMA SPLEEN	C8336	Diffuse large B-cell lymphoma, intrapelvic lymph nodes
20018	LYMPHOSARCOMA MULT	C8337	Diffuse large B-cell lymphoma, spleen
20020	BRKT TMR UNSP XTRNDL ORG	C8338	Diffuse large B-cell lymphoma, lymph nodes of multiple sites
20021	BURKITT'S TUMOR HEAD	C8339	Diffuse large B-cell lymphoma, extranodal and solid organ sites
20022	BURKITT'S TUMOR THORAX	C8350	Lymphoblastic (diffuse) lymphoma, unspecified site
20023	BURKITT'S TUMOR ABDOM	C8351	Lymphoblastic (diffuse) lymphoma, lymph nodes of head, face, and neck
20024	BURKITT'S TUMOR AXILLA	C8352	Lymphoblastic (diffuse) lymphoma, intrathoracic lymph nodes
20025	BURKITT'S TUMOR INGUIN	C8353	Lymphoblastic (diffuse) lymphoma, intra-abdominal lymph nodes
20026	BURKITT'S TUMOR PELVIC	C8354	Lymphoblastic (diffuse) lymphoma, lymph nodes of axilla and upper limb
20027	BURKITT'S TUMOR SPLEEN	C8355	Lymphoblastic (diffuse) lymphoma, lymph nodes of inguinal region and lower limb
20028	BURKITT'S TUMOR MULT	C8356	Lymphoblastic (diffuse) lymphoma, intrapelvic lymph nodes
20080	OTH VARN UNSP XTRNDL ORG	C8357	Lymphoblastic (diffuse) lymphoma, spleen

20081	MIXED LYMPHOSARC HEAD	C8358	Lymphoblastic (diffuse) lymphoma, lymph nodes of multiple sites
20082	MIXED LYMPHOSARC THORAX	C8359	Lymphoblastic (diffuse) lymphoma, extranodal and solid organ sites
20083	MIXED LYMPHOSARC ABDOM	C8370	Burkitt lymphoma, unspecified site
20084	MIXED LYMPHOSARC AXILLA	C8371	Burkitt lymphoma, lymph nodes of head, face, and neck
20085	MIXED LYMPHOSARC INGUIN	C8372	Burkitt lymphoma, intrathoracic lymph nodes
20086	MIXED LYMPHOSARC PELVIC	C8373	Burkitt lymphoma, intra-abdominal lymph nodes
20087	MIXED LYMPHOSARC SPLEEN	C8374	Burkitt lymphoma, lymph nodes of axilla and upper limb
20088	MIXED LYMPHOSARC MULT	C8375	Burkitt lymphoma, lymph nodes of inguinal region and lower limb
20302	MULT MYELOMA IN RELAPSE	C8376	Burkitt lymphoma, intrapelvic lymph nodes
20312	PLSM CEL LEUK IN RELAPSE	C8377	Burkitt lymphoma, spleen
20382	OTH IMNPRLF NEO-RELAPSE	C8378	Burkitt lymphoma, lymph nodes of multiple sites
20402	ACT LYMP LEUK IN RELAPSE	C8379	Burkitt lymphoma, extranodal and solid organ sites
20412	CHR LYMP LEUK IN RELAPSE	C8380	Other non-follicular lymphoma, unspecified site
20422	SBAC LYM LEUK IN RELAPSE	C8381	Other non-follicular lymphoma, lymph nodes of head, face, and neck
20482	OTH LYM LEUK IN RELAPSE	C8382	Other non-follicular lymphoma, intrathoracic lymph nodes
20492	LYMP LEUK NOS RELAPSE	C8383	Other non-follicular lymphoma, intra-abdominal lymph nodes
2050	ACUTE MYELOID LEUKEMIA	C8384	Other non-follicular lymphoma, lymph nodes of axilla and upper limb
20500	ACT MYL LEUK W/O RMSION	C8385	Other non-follicular lymphoma, lymph nodes of inguinal region and lower limb
20501	ACT MYL LEUK W RMSION	C8386	Other non-follicular lymphoma, intrapelvic lymph nodes
20502	ACT MYEL LEUK IN RELAPSE	C8387	Other non-follicular lymphoma, spleen
2051	CHRONIC MYELOID LEUKEMIA	C8388	Other non-follicular lymphoma, lymph nodes of multiple sites
20510	CHR MYL LEUK W/O RMSION	C8389	Other non-follicular lymphoma, extranodal and solid organ sites
20511	CHR MYL LEUK W RMSION	C8390	Non-follicular (diffuse) lymphoma, unspecified, unspecified site
20512	CHR MYEL LEUK IN RELAPSE	C8391	Non-follicular (diffuse) lymphoma, unspecified, lymph nodes of head, face, and neck
2052	SUBACUT MYELOID LEUKEMIA	C8392	Non-follicular (diffuse) lymphoma, unspecified, intrathoracic lymph nodes
20520	SBAC MYL LEUK W/O RMSION	C8393	Non-follicular (diffuse) lymphoma, unspecified, intra-abdominal lymph nodes
20521	SBAC MYL LEUK W RMSION	C8394	Non-follicular (diffuse) lymphoma, unspecified, lymph nodes of axilla and upper limb
20522	SBAC MYL LEUK IN RELAPSE	C8395	Non-follicular (diffuse) lymphoma, unspecified, lymph nodes of inguinal region and lower limb
2053	MYELOID SARCOMA	C8396	Non-follicular (diffuse) lymphoma, unspecified, intrapelvic lymph nodes
20530	MYL SRCOMA W/O RMSION	C8397	Non-follicular (diffuse) lymphoma, unspecified, spleen
20531	MYL SRCOMA W RMSION	C8398	Non-follicular (diffuse) lymphoma, unspecified, lymph nodes of multiple sites
20532	MYEL SARCOMA IN RELAPSE	C8399	Non-follicular (diffuse) lymphoma, unspecified, extranodal and solid organ sites
2058	MYELOID LEUKEMIA NEC	C865	Angioimmunoblastic T-cell lymphoma
20580	OTH MYL LEUK W/O RMSION	C866	Primary cutaneous CD30-positive T-cell proliferations
20581	OTH MYL LEUK W RMSION	C888	Other malignant immunoproliferative diseases
20582	OTH MYEL LEUK IN RELAPSE	C9002	Multiple myeloma in relapse
2059	MYELOID LEUKEMIA NOS	C9012	Plasma cell leukemia in relapse
20590	UNS MYL LEUK W/O RMSION	C9022	Extramedullary plasmacytoma in relapse

20591	UNS MYL LEUK W RMSION	C9032	Solitary plasmacytoma in relapse
20592	MYEL LEUK NOS IN RELAPSE	C9102	Acute lymphoblastic leukemia, in relapse
2060	ACUTE MONOCYTIC LEUKEMIA	C9112	Chronic lymphocytic leukemia of B-cell type in relapse
20600	ACT MONO LEUK W/O RMSION	C9132	Prolymphocytic leukemia of B-cell type, in relapse
20601	ACT MONO LEUK W RMSION	C9152	Adult T-cell lymphoma/leukemia (HTLV-1-associated), in relapse
20602	ACT MONO LEUK IN RELAPSE	C9162	Prolymphocytic leukemia of T-cell type, in relapse
2061	CHR MONOCYTIC LEUKEMIA	C9192	Lymphoid leukemia, unspecified, in relapse
20610	CHR MONO LEUK W/O RMSION	C91A2	Mature B-cell leukemia Burkitt-type, in relapse
20611	CHR MONO LEUK W RMSION	C91Z2	Other lymphoid leukemia, in relapse
20612	CHR MONO LEUK IN RELAPSE	C9200	Acute myeloblastic leukemia, not having achieved remission
2062	SUBAC MONOCYTIC LEUKEMIA	C9201	Acute myeloblastic leukemia, in remission
20620	SBAC MONO LEUK W/O RMSON	C9202	Acute myeloblastic leukemia, in relapse
20621	SBAC MONO LEUK W RMSION	C9210	Chronic myeloid leukemia, BCR/ABL-positive, not having achieved remission
20622	SBAC MONO LEU IN RELAPSE	C9211	Chronic myeloid leukemia, BCR/ABL-positive, in remission
2068	MONOCYTIC LEUKEMIA NEC	C9212	Chronic myeloid leukemia, BCR/ABL-positive, in relapse
20680	OTH MONO LEUK W/O RMSION	C9220	Atypical chronic myeloid leukemia, BCR/ABL-negative, not having achieved remission
20681	OTH MONO LEUK W RMSION	C9221	Atypical chronic myeloid leukemia, BCR/ABL-negative, in remission
20682	OTH MONO LEUK IN RELAPSE	C9222	Atypical chronic myeloid leukemia, BCR/ABL-negative, in relapse
2069	MONOCYTIC LEUKEMIA NOS	C9230	Myeloid sarcoma, not having achieved remission
20690	UNS MONO LEUK W/O RMSION	C9231	Myeloid sarcoma, in remission
20691	UNS MONO LEUK W RMSION	C9232	Myeloid sarcoma, in relapse
20692	MONO LEUK NOS RELAPSE	C9240	Acute promyelocytic leukemia, not having achieved remission
2070	ACUTE ERYTHREMIA	C9241	Acute promyelocytic leukemia, in remission
20700	ACT ERTH/ERYLK W/O RMSON	C9242	Acute promyelocytic leukemia, in relapse
20701	ACT ERTH/ERYLK W RMSON	C9250	Acute myelomonocytic leukemia, not having achieved remission
20702	AC ERTH/ERYLK IN RELAPSE	C9251	Acute myelomonocytic leukemia, in remission
2071	CHRONIC ERYTHREMIA	C9252	Acute myelomonocytic leukemia, in relapse
20710	CHR ERYTHRM W/O REMISION	C9260	Acute myeloid leukemia with 11q23-abnormality not having achieved remission
20711	CHR ERYTHRM W REMISION	C9261	Acute myeloid leukemia with 11q23-abnormality in remission
20712	CHR ERYTHRMIA IN RELAPSE	C9262	Acute myeloid leukemia with 11q23-abnormality in relapse
2072	MEGAKARYOCYTIC LEUKEMIA	C9290	Myeloid leukemia, unspecified, not having achieved remission
20720	MGKRYCYT LEUK W/O RMSION	C9291	Myeloid leukemia, unspecified in remission
20721	MGKRYCYT LEUK W RMSION	C9292	Myeloid leukemia, unspecified in relapse
20722	MGKRYCYT LEUK IN RELAPSE	C92A0	Acute myeloid leukemia with multilineage dysplasia, not having achieved remission
2078	SPECIFIED LEUKEMIA NEC	C92A1	Acute myeloid leukemia with multilineage dysplasia, in remission
20780	OTH SPF LEUK W/O REMSION	C92A2	Acute myeloid leukemia with multilineage dysplasia, in relapse
20781	OTH SPF LEUK W REMSION	C92Z0	Other myeloid leukemia not having achieved remission
20782	OTH SPF LEUK IN RELAPSE	C92Z1	Other myeloid leukemia, in remission
2080	ACT LEUK UNS CL W/O RMSN	C92Z2	Other myeloid leukemia, in relapse
20800	ACT LEUK UNS CL W/O RMSN	C9300	Acute monoblastic/monocytic leukemia, not having achieved remission
20801	ACT LEUK UNS CL W RMSON	C9301	Acute monoblastic/monocytic leukemia, in remission

20802	AC LEUK UNS CL RELAPSE	C9302	Acute monoblastic/monocytic leukemia, in relapse
2081	CHRONIC LEUKEMIA NOS	C9310	Chronic myelomonocytic leukemia not having achieved remission
20810	CHR LEUK UNS CL W/O RMSN	C9311	Chronic myelomonocytic leukemia, in remission
20811	CHR LEUK UNS CL W RMSN	C9312	Chronic myelomonocytic leukemia, in relapse
20812	CH LEU UNS CL IN RELAPSE	C9330	Juvenile myelomonocytic leukemia, not having achieved remission
2082	SUBACUTE LEUKEMIA NOS	C9331	Juvenile myelomonocytic leukemia, in remission
20820	SBAC LEUK UNS CL W/O RMS	C9332	Juvenile myelomonocytic leukemia, in relapse
20821	SBAC LEUK UNS CL W RMSN	C9390	Monocytic leukemia, unspecified, not having achieved remission
20822	SBAC LEU UNS CL-RELAPSE	C9391	Monocytic leukemia, unspecified in remission
2088	LEUKEMIA-UNSPEC CELL NEC	C9392	Monocytic leukemia, unspecified in relapse
20880	OTH LEUK UNS CL W/O RMSN	C9320	Other monocytic leukemia, not having achieved remission
20881	OTH LEUK UNS CL W RMSN	C9321	Other monocytic leukemia, in remission
20882	OTH LEUK UNS CL-RELAPSE	C9322	Other monocytic leukemia, in relapse
2089	LEUKEMIA-UNSPEC CELL NOS	C9400	Acute erythroid leukemia, not having achieved remission
20890	LEUKEMIA NOS W/O REMSION	C9401	Acute erythroid leukemia, in remission
20891	LEUKEMIA NOS W REMISSIO	C9402	Acute erythroid leukemia, in relapse
20892	LEUKEMIA NOS IN RELAPSE	C9420	Acute megakaryoblastic leukemia not having achieved remission
23873	HI GRDE MYELOYDYS SYN LES	C9421	Acute megakaryoblastic leukemia, in remission
23876	MYELOFI W MYELO METAPLAS	C9422	Acute megakaryoblastic leukemia, in relapse
23877	Post-transplant lymphoproliferative disorder	C9430	Mast cell leukemia not having achieved remission
23879	Other lymphatic and hematopoietic tissues	C9431	Mast cell leukemia, in remission
260	KWASHIORKOR	C9432	Mast cell leukemia, in relapse
261	NUTRITIONAL MARASMUS	C9440	Acute panmyelosis with myelofibrosis not having achieved remission
262	OTHER SEVERE PROTEIN CALORIE MALNUTRITION	C9441	Acute panmyelosis with myelofibrosis, in remission
27900	HYPOGAMMAGLOBULINEMIA NOS	C9442	Acute panmyelosis with myelofibrosis, in relapse
27901	SELECTIVE IGA IMMUNODEFICIENCY	C946	Myelodysplastic disease, not classified
27902	SELECTIVE IGM IMMUNODEFICIENCY	C9480	Other specified leukemias not having achieved remission
27903	OTHER SELECTIVE IMMUNOGLOBULIN DEFICIENCIES	C9481	Other specified leukemias, in remission
27904	CONGENITAL HYPOGAMMAGLOBULINEMIA	C9482	Other specified leukemias, in relapse
27905	IMMUNODEFICIENCY WITH INCREASED IGM	C9500	Acute leukemia of unspecified cell type not having achieved remission
27906	COMMON VARIABLE IMMUNODEFICIENCY	C9501	Acute leukemia of unspecified cell type, in remission
27909	DEFICIENCY OF HUMORAL IMMUNITY, OTHER	C9502	Acute leukemia of unspecified cell type, in relapse
27910	IMMUNODEFICIENCY WITH PREDOMINANT T-CELL DEFECT NOS	C9510	Chronic leukemia of unspecified cell type not having achieved remission
27911	DIGEORGE'S SYNDROME	C9511	Chronic leukemia of unspecified cell type, in remission
27912	WISKOTT-ALDRICH SYNDROME	C9512	Chronic leukemia of unspecified cell type, in relapse
27913	NEZLOF'S SYNDROME	C9590	Leukemia, unspecified not having achieved remission
27919	DEFICIENCY OF CELL-MEDIATED IMMUNITY, OTHER	C9591	Leukemia, unspecified, in remission
2792	COMBINED IMMUNITY DEFICIENCY	C9592	Leukemia, unspecified, in relapse
2793	UNSPECIFIED IMMUNITY DEFICIENCY	D45	Polycythemia vera
2794	AUTOIMMUNE DISEASE, NOT ELSEWHERE CLASSIFIED	D4622	Refractory anemia with excess of blasts 2
27941	AUTOIMMUN LYMPHPROF SYND	D471	Chronic myeloproliferative disease
27949	AUTOIMMUNE DISEASE NEC	D479	Neoplasm of uncertain behavior of lymphoid, hematopoietic and related tissue, unspecified
27950	Graft-versus-host disease, unspecified	D4721	Post-transplant lymphoproliferative disorder (PTLD)
27951	Acute graft-versus-host disease	D4729	Other specified neoplasms of uncertain behavior of lymphoid, hematopoietic and related tissue
27952	Chronic graft-versus-host disease	D6109	Other constitutional aplastic anemia
27953	Acute on chronic graft-versus-host disease	D61810	Antineoplastic chemotherapy induced pancytopenia

2798	OTHER SPECIFIED DISORDERS INVOLVING THE IMMUNE MECHANISM	D61811	Other drug-induced pancytopenia
2799	UNSPECIFIED DISORDER OF IMMUNE MECHANISM	D61818	Other pancytopenia
28409	CONST APLASTIC ANEMIA NEC	D700	Congenital agranulocytosis
2841	PANCYTOPENIA	D701	Agranulocytosis secondary to cancer chemotherapy
28411	Antineoplastic chemotherapy induced pancytopenia	D702	Other drug-induced agranulocytosis
28412	Other drug induced pancytopenia	D704	Cyclic neutropenia
28419	Other pancytopenia	D708	Other neutropenia
2880	AGRANULOCYTOSIS	D709	Neutropenia, unspecified
28800	NEUTROPENIA NOS	D71	Functional disorders of polymorphonuclear neutrophils
28801	CONGENITAL NEUTROPENIA	D720	Genetic anomalies of leukocytes
28802	CYCLIC NEUTROPENIA	D72810	Lymphocytopenia
28803	DRUG INDUCED NEUTROPENIA	D72818	Other decreased white blood cell count
28809	NEUTROPENIA NEC	D72819	Decreased white blood cell count, unspecified
2881	FUNCTIONAL DISORDERS OF POLYMORPHONUCLEAR NEUTROPHILS	D7381	Neutropenic splenomegaly
2882	GENETIC ANOMALIES OF LUKOCYTES	D7581	Myelofibrosis
2884	HEMOPHAGOCYTIC SYNDROMES	D761	Hemophagocytic lymphohistiocytosis
28850	LEUKOCYTOPENIA NOS	D762	Hemophagocytic syndrome, infection-associated
28851	LYMPHOCYTOPENIA	D763	Other histiocytosis syndromes
28859	DECREASED WBC COUNT NEC	D800	Hereditary hypogammaglobulinemia
28953	NEUTROPENIC SPLENOMEGALY	D801	Nonfamilial hypogammaglobulinemia
28983	MYELOFIBROSIS	D802	Selective deficiency of immunoglobulin A [IgA]
40301	HYPERTENSIVE RENAL DISEASE, MALIGNANT W RENAL FAILURE	D803	Selective deficiency of immunoglobulin G [IgG] subclasses
40311	HYPERTENSIVE RENAL DISEASE, BENIGN W RENAL FAILURE	D804	Selective deficiency of immunoglobulin M [IgM]
40391	HYPERTENSIVE RENAL DISEASE, NOS W RENAL FAILURE	D805	Immunodeficiency with increased immunoglobulin M [IgM]
40402	HYPERTENSIVE HEART AND RENAL DISEASE MALIGNANT W RENAL FAILURE	D806	Antibody deficiency with near-normal immunoglobulins or with hyperimmunoglobulinemia
40403	HYPERTENSIVE HEART AND RENAL DISEASE MALIGNANT W CONGESTIVE HEART AND RENAL FAILURE	D807	Transient hypogammaglobulinemia of infancy
40412	HYPERTENSIVE HEART AND RENAL DISEASE BENIGN W RENAL FAILURE	D808	Other immunodeficiencies with predominantly antibody defects
40413	HYPERTENSIVE HEART AND RENAL DISEASE BENIGN W CONGESTIVE HEART AND RENAL FAILURE	D809	Immunodeficiency with predominantly antibody defects, unspecified
40492	HYPERTENSIVE HEART AND RENAL DISEASE NOS W RENAL FAILURE	D810	Severe combined immunodeficiency [SCID] with reticular dysgenesis
40493	HYPERTENSIVE HEART AND RENAL DISEASE NOS W CONGESTIVE HEART AND RENAL FAILURE	D811	Severe combined immunodeficiency [SCID] with low T- and B-cell numbers
5793	OTHER AND UNSPECIFIED POSTSURGICAL NONABSORPTION	D812	Severe combined immunodeficiency [SCID] with low or normal B-cell numbers
585	CHRONIC KIDNEY DISEASE	D814	Nezelofs syndrome
5855	CHRONIC KIDNEY DISEASE STAGE V	D816	Major histocompatibility complex class I deficiency
5856	END STAGE RENAL DISEASE	D817	Major histocompatibility complex class II deficiency
9968	COMPLICATIONS OF TRANSPLANTED ORGAN	D8189	Other combined immunodeficiencies
99680	COMP ORGAN TRANSPLNT NOS	D819	Combined immunodeficiency, unspecified
99681	COMPL KIDNEY TRANSPLANT	D820	Wiskott-Aldrich syndrome
99682	COMPL LIVER TRANSPLANT	D821	Di Georges syndrome
99683	COMPL HEART TRANSPLANT	D822	Immunodeficiency with short-limbed stature
99684	COMPL LUNG TRANSPLANT	D823	Immunodeficiency following hereditary defective response to Epstein-Barr virus
99685	COMPL MARROW TRANSPLANT	D824	Hyperimmunoglobulin E [IgE] syndrome
99686	COMPL PANCREAS TRANSPLNT	D828	Immunodeficiency associated with other specified major defects

99687	COMP INTESTINE TRANSPLNT	D829	Immunodeficiency associated with major defect, unspecified
99688	Stem cell transplant complications	D830	Common variable immunodeficiency with predominant abnormalities of B-cell numbers and function
99689	COMP OTH ORGAN TRANSPLNT	D831	Common variable immunodeficiency with predominant immunoregulatory T-cell disorders
V420	KIDNEY REPLACED BY TRANSPLANT	D832	Common variable immunodeficiency with autoantibodies to B- or T-cells
V421	HEART REPLACED BY TRANSPLANT	D838	Other common variable immunodeficiencies
V426	LUNG REPLACED BY TRANSPLANT	D839	Common variable immunodeficiency, unspecified
V427	LIVER REPLACED BY TRANSPLANT	D840	Lymphocyte function antigen-1 [LFA-1] defect
V428	OTHER SPECIFIED ORGAN OR TISSUE	D841	Defects in the complement system
V4281	BONE MARROW SPECIFIED BY TRANSPLANT	D848	Other specified immunodeficiencies
V4282	PERIPHERAL STEM CELLS REPLACED BY TRANSPLANT	D849	Immunodeficiency, unspecified
V4283	PANCREAS REPLACED BY TRANSPLANT	D893	Immune reconstitution syndrome
V4284	INTESTINES REPLACE BY TRANSPLANT	D89810	Acute graft-versus-host disease
V4289	OTHER REPLACED BY TRANSPLANT	D89811	Chronic graft-versus-host disease
V451	RENAL DIALYSIS STATUS	D89812	Acute on chronic graft-versus-host disease
V4511	RENAL DIALYSIS STATUS	D89813	Graft-versus-host disease, unspecified
V560	EXTRACORPOREAL DIALYSIS	D8982	Autoimmune lymphoproliferative syndrome [ALPS]
V561	FITTING AND ADJUSTMENT OF EXTRACORPOREAL DIALYSIS CATHETER	D8989	Other specified disorders involving the immune mechanism, not elsewhere classified
V562	FITTING AND ADJUSTMENT OF PERITONEAL DIALYSIS CATHETER	D899	Disorder involving the immune mechanism, unspecified
V563	ENCOUNTER FOR ADEQUACY TESTING FOR DIALYSIS	E40	Kwashiorkor
V5631	ENCOUNTER FOR ADEQUACY TESTING FOR HEMODIALYSIS	E41	Nutritional marasmus
V5632	ENCOUNTER FOR ADEQUACY TESTING FOR PERIONEAL DIALYSIS	E42	Marasmic kwashiorkor
V568	OTHER DIALYSIS	E43	Unspecified severe protein-calorie malnutrition
		I120	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease
		I1311	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease
		I132	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease
		K912	Postsurgical malabsorption, not elsewhere classified
		N185	Chronic kidney disease, stage 5
		N186	End stage renal disease
		T8600	Unspecified complication of bone marrow transplant
		T8601	Bone marrow transplant rejection
		T8602	Bone marrow transplant failure
		T8603	Bone marrow transplant infection
		T8609	Other complications of bone marrow transplant
		T8610	Unspecified complication of kidney transplant
		T8611	Kidney transplant rejection
		T8612	Kidney transplant failure
		T8613	Kidney transplant infection
		T8619	Other complication of kidney transplant
		T8620	Unspecified complication of heart transplant
		T8621	Heart transplant rejection
		T8622	Heart transplant failure
		T8623	Heart transplant infection
		T86290	Cardiac allograft vasculopathy

T86298	Other complications of heart transplant
T8630	Unspecified complication of heart-lung transplant
T8631	Heart-lung transplant rejection
T8632	Heart-lung transplant failure
T8633	Heart-lung transplant infection
T8639	Other complications of heart-lung transplant
T8640	Unspecified complication of liver transplant
T8641	Liver transplant rejection
T8642	Liver transplant failure
T8643	Liver transplant infection
T8649	Other complications of liver transplant
T865	Complications of stem cell transplant
T86810	Lung transplant rejection
T86811	Lung transplant failure
T86812	Lung transplant infection
T86818	Other complications of lung transplant
T86819	Unspecified complication of lung transplant
T86830	Bone graft rejection
T86831	Bone graft failure
T86832	Bone graft infection
T86838	Other complications of bone graft
T86839	Unspecified complication of bone graft
T86850	Intestine transplant rejection
T86851	Intestine transplant failure
T86852	Intestine transplant infection
T86858	Other complications of intestine transplant
T86859	Unspecified complication of intestine transplant
T86890	Other transplanted tissue rejection
T86891	Other transplanted tissue failure
T86892	Other transplanted tissue infection
T86898	Other complications of other transplanted tissue
T86899	Unspecified complication of other transplanted tissue
T8690	Unspecified complication of unspecified transplanted organ and tissue
T8691	Unspecified transplanted organ and tissue rejection
T8692	Unspecified transplanted organ and tissue failure
T8693	Unspecified transplanted organ and tissue infection
T8699	Other complications of unspecified transplanted organ and tissue
Z4821	Encounter for aftercare following heart transplant
Z4822	Encounter for aftercare following kidney transplant
Z4823	Encounter for aftercare following liver transplant
Z4824	Encounter for aftercare following lung transplant
Z48280	Encounter for aftercare following heart-lung transplant
Z48290	Encounter for aftercare following bone marrow transplant
Z48298	Encounter for aftercare following other organ transplant
Z4901	Encounter for fitting and adjustment of extracorporeal dialysis catheter
Z4902	Encounter for fitting and adjustment of peritoneal dialysis catheter
Z4931	Encounter for adequacy testing for hemodialysis
Z4932	Encounter for adequacy testing for peritoneal dialysis
Z940	Kidney transplant status
Z941	Heart transplant status

Z942	Lung transplant status
Z943	Heart and lungs transplant status
Z944	Liver transplant status
Z9481	Bone marrow transplant status
Z9482	Intestine transplant status
Z9483	Pancreas transplant status
Z9484	Stem cells transplant status
Z9489	Other transplanted organ and tissue status
Z992	Dependence on renal dialysis

High-risk immunocompromised state procedure codes: (TRANSPP)

ICD-9-CM	Description	ICD-10-PCS	Description
335	LUNG TRANSPLANT	02YA0Z0	Transplantation of Heart, Allogeneic, Open Approach
3350	LUNG TRANSPLANT NOS	02YA0Z2	Transplantation of Heart, Zooplastic, Open Approach
3351	UNILAT LUNG TRANSPLANT	0BYC0Z0	Transplantation of Right Upper Lung Lobe, Allogeneic, Open Approach
3352	BILAT LUNG TRANSPLANT	0BYC0Z2	Transplantation of Right Upper Lung Lobe, Zooplastic, Open Approach
336	COMBINED HEART-LUNG TRANSPLANTATION	0BYD0Z0	Transplantation of Right Middle Lung Lobe, Allogeneic, Open Approach
375	HEART TRANSPLANTATION	0BYD0Z2	Transplantation of Right Middle Lung Lobe, Zooplastic, Open Approach
3751	HEART TRANSPLANTATION	0BYF0Z0	Transplantation of Right Lower Lung Lobe, Allogeneic, Open Approach
410	OPERATIONS ON BONE MARROW AND SPLEEN	0BYF0Z2	Transplantation of Right Lower Lung Lobe, Zooplastic, Open Approach
4100	BONE MARROW TRNSPLNT NOS	0BYG0Z0	Transplantation of Left Upper Lung Lobe, Allogeneic, Open Approach
4101	AUTO BONE MT W/O PURG	0BYG0Z2	Transplantation of Left Upper Lung Lobe, Zooplastic, Open Approach
4102	ALO BONE MARROW TRNSPLNT	0BYH0Z0	Transplantation of Lung Lingula, Allogeneic, Open Approach
4103	ALLOGRFT BONE MARROW NOS	0BYH0Z2	Transplantation of Lung Lingula, Zooplastic, Open Approach
4104	AUTO HEM STEM CT W/O PUR	0BYJ0Z0	Transplantation of Left Lower Lung Lobe, Allogeneic, Open Approach
4105	ALLO HEM STEM CT W/O PUR	0BYJ0Z2	Transplantation of Left Lower Lung Lobe, Zooplastic, Open Approach
4106	CORD BLD STEM CELL TRANS	0BYK0Z0	Transplantation of Right Lung, Allogeneic, Open Approach
4107	AUTO HEM STEM CT W PURG	0BYK0Z2	Transplantation of Right Lung, Zooplastic, Open Approach
4108	ALLO HEM STEM CT W PURG	0BYL0Z0	Transplantation of Left Lung, Allogeneic, Open Approach
4109	AUTO BONE MT W PURGING	0BYL0Z2	Transplantation of Left Lung, Zooplastic, Open Approach
4697	Added 5.0: TRANSPLANT OF INTESTINE	0BYM0Z0	Transplantation of Bilateral Lungs, Allogeneic, Open Approach
5051	AUXILIARY LIVER TRANSPL	0BYM0Z2	Transplantation of Bilateral Lungs, Zooplastic, Open Approach
5059	LIVER TRANSPLANT NEC	0DY50Z0	Transplantation of Esophagus, Allogeneic, Open Approach
5280	PANCREATIC TRANSPLANT, NOS	0DY50Z2	Transplantation of Esophagus, Zooplastic, Open Approach
5281	REIMPLANTATION OF PANCREATIC TISSUE	0DY60Z0	Transplantation of Stomach, Allogeneic, Open Approach
5282	REIMPLANTATION OF PANCREATIC TISSUE	0DY60Z2	Transplantation of Stomach, Zooplastic, Open Approach
5283	HETEROTRANSPLANT OF PANCREAS	0DY80Z0	Transplantation of Small Intestine, Allogeneic, Open Approach
5285	ALLOTRANSPLANTATION OF CELLS OF ISLETS OF LINGERHANS	0DY80Z2	Transplantation of Small Intestine, Zooplastic, Open Approach

5286	TRANSPLANTATION OF CELLS OF ISLETS OF LANGERHANS, NOS	0DYE0Z0	Transplantation of Large Intestine, Allogeneic, Open Approach
5569	OTHER KIDNEY TRANSPLANTATION	0DYE0Z2	Transplantation of Large Intestine, Zooplastic, Open Approach
		0FSG0ZZ	Reposition Pancreas, Open Approach
		0FSG4ZZ	Reposition Pancreas, Percutaneous Endoscopic Approach
		0FY00Z0	Transplantation of Liver, Allogeneic, Open Approach
		0FY00Z2	Transplantation of Liver, Zooplastic, Open Approach
		0FYG0Z0	Transplantation of Pancreas, Allogeneic, Open Approach
		0FYG0Z2	Transplantation of Pancreas, Zooplastic, Open Approach
		0TY00Z0	Transplantation of Right Kidney, Allogeneic, Open Approach
		0TY00Z2	Transplantation of Right Kidney, Zooplastic, Open Approach
		0TY10Z0	Transplantation of Left Kidney, Allogeneic, Open Approach
		0TY10Z2	Transplantation of Left Kidney, Zooplastic, Open Approach
		30230AZ	Transfusion of Embryonic Stem Cells into Peripheral Vein, Open Approach
		30230G0	Transfusion of Autologous Bone Marrow into Peripheral Vein, Open Approach
		30230G1	Transfusion of Nonautologous Bone Marrow into Peripheral Vein, Open Approach
		30230X0	Transfusion of Autologous Cord Blood Stem Cells into Peripheral Vein, Open Approach
		30230X1	Transfusion of Nonautologous Cord Blood Stem Cells into Peripheral Vein, Open Approach
		30230Y0	Transfusion of Autologous Hematopoietic Stem Cells into Peripheral Vein, Open Approach
		30230Y1	Transfusion of Nonautologous Hematopoietic Stem Cells into Peripheral Vein, Open Approach
		30233AZ	Transfusion of Embryonic Stem Cells into Peripheral Vein, Percutaneous Approach
		30233G0	Transfusion of Autologous Bone Marrow into Peripheral Vein, Percutaneous Approach
		30233G1	Transfusion of Nonautologous Bone Marrow into Peripheral Vein, Percutaneous Approach
		30233X0	Transfusion of Autologous Cord Blood Stem Cells into Peripheral Vein, Percutaneous Approach
		30233X1	Transfusion of Nonautologous Cord Blood Stem Cells into Peripheral Vein, Percutaneous Approach
		30233Y0	Transfusion of Autologous Hematopoietic Stem Cells into Peripheral Vein, Percutaneous Approach
		30233Y1	Transfusion of Nonautologous Hematopoietic Stem Cells into Peripheral Vein, Percutaneous Approach
		30240AZ	Transfusion of Embryonic Stem Cells into Central Vein, Open Approach
		30240G0	Transfusion of Autologous Bone Marrow into Central Vein, Open Approach
		30240G1	Transfusion of Nonautologous Bone Marrow into Central Vein, Open Approach
		30240X0	Transfusion of Autologous Cord Blood Stem Cells into Central Vein, Open Approach
		30240X1	Transfusion of Nonautologous Cord Blood Stem Cells into Central Vein, Open Approach
		30240Y0	Transfusion of Autologous Hematopoietic Stem Cells into Central Vein, Open Approach

30240Y1	Transfusion of Nonautologous Hematopoietic Stem Cells into Central Vein, Open Approach
30243AZ	Transfusion of Embryonic Stem Cells into Central Vein, Percutaneous Approach
30243G0	Transfusion of Autologous Bone Marrow into Central Vein, Percutaneous Approach
30243G1	Transfusion of Nonautologous Bone Marrow into Central Vein, Percutaneous Approach
30243X0	Transfusion of Autologous Cord Blood Stem Cells into Central Vein, Percutaneous Approach
30243X1	Transfusion of Nonautologous Cord Blood Stem Cells into Central Vein, Percutaneous Approach
30243Y0	Transfusion of Autologous Hematopoietic Stem Cells into Central Vein, Percutaneous Approach
30243Y1	Transfusion of Nonautologous Hematopoietic Stem Cells into Central Vein, Percutaneous Approach
30250G0	Transfusion of Autologous Bone Marrow into Peripheral Artery, Open Approach
30250G1	Transfusion of Nonautologous Bone Marrow into Peripheral Artery, Open Approach
30250X0	Transfusion of Autologous Cord Blood Stem Cells into Peripheral Artery, Open Approach
30250X1	Transfusion of Nonautologous Cord Blood Stem Cells into Peripheral Artery, Open Approach
30250Y0	Transfusion of Autologous Hematopoietic Stem Cells into Peripheral Artery, Open Approach
30250Y1	Transfusion of Nonautologous Hematopoietic Stem Cells into Peripheral Artery, Open Approach
30253G0	Transfusion of Autologous Bone Marrow into Peripheral Artery, Percutaneous Approach
30253G1	Transfusion of Nonautologous Bone Marrow into Peripheral Artery, Percutaneous Approach
30253X0	Transfusion of Autologous Cord Blood Stem Cells into Peripheral Artery, Percutaneous Approach
30253X1	Transfusion of Nonautologous Cord Blood Stem Cells into Peripheral Artery, Percutaneous Approach
30253Y0	Transfusion of Autologous Hematopoietic Stem Cells into Peripheral Artery, Percutaneous Approach
30253Y1	Transfusion of Nonautologous Hematopoietic Stem Cells into Peripheral Artery, Percutaneous Approach
30260G0	Transfusion of Autologous Bone Marrow into Central Artery, Open Approach
30260G1	Transfusion of Nonautologous Bone Marrow into Central Artery, Open Approach
30260X0	Transfusion of Autologous Cord Blood Stem Cells into Central Artery, Open Approach
30260X1	Transfusion of Nonautologous Cord Blood Stem Cells into Central Artery, Open Approach
30260Y0	Transfusion of Autologous Hematopoietic Stem Cells into Central Artery, Open Approach
30260Y1	Transfusion of Nonautologous Hematopoietic Stem Cells into Central Artery, Open Approach
30263G0	Transfusion of Autologous Bone Marrow into Central Artery, Percutaneous Approach
30263G1	Transfusion of Nonautologous Bone Marrow into Central Artery, Percutaneous Approach
30263X0	Transfusion of Autologous Cord Blood Stem Cells into Central Artery, Percutaneous Approach

30263X1	Transfusion of Nonautologous Cord Blood Stem Cells into Central Artery, Percutaneous Approach
30263Y0	Transfusion of Autologous Hematopoietic Stem Cells into Central Artery, Percutaneous Approach
30263Y1	Transfusion of Nonautologous Hematopoietic Stem Cells into Central Artery, Percutaneous Approach
3E030U1	Introduction of Nonautologous Pancreatic Islet Cells into Peripheral Vein, Open Approach
3E033U1	Introduction of Nonautologous Pancreatic Islet Cells into Peripheral Vein, Percutaneous Approach
3E0J3U1	Introduction of Nonautologous Pancreatic Islet Cells into Biliary and Pancreatic Tract, Percutaneous Approach
3E0J7U1	Introduction of Nonautologous Pancreatic Islet Cells into Biliary and Pancreatic Tract, Via Natural or Artificial
3E0J8U1	Introduction of Nonautologous Pancreatic Islet Cells into Biliary and Pancreatic Tract, Via Natural or Artificial Opening Endoscopic