

Immunodeficiency and Immune Disorders

DOCUMENTATION AND CODING SERIES FOR PROVIDERS

Overview

Patients who are immunocompromised pose increased risks and challenges when treating, highlighting the importance of accurately identifying patients with this status. Immunocompromised states can be caused by underlying conditions or through intentional suppression via medication therapy. Patients that are afflicted with chronic conditions such as AIDS and cancer are often in an immunocompromised state. Additionally, patients can be immunocompromised resulting from immunosuppressant drug therapy used to suppress the immune system to keep certain disease processes under control, such as lupus, Crohn’s disease, rheumatoid arthritis, and rejection treatment for organ transplant status. Disorders involving the immune mechanism and immunodeficiency are frequently miscoded when the cause of the immunocompromised state is medication therapy or an underlying chronic condition.

Accurate Code Assignment

how to report the specific causes for a patient’s immunocompromised state¹.

ICD-10 Code	ICD-10 Description	Assign when immunodeficiency is due to:
D84.821	Immunodeficiency due to drugs	Medications that interfere with the immune system. These medications include immunosuppressants, corticosteroids, and chemotherapy.
D84.822	Immunodeficiency due to external causes	Caused by external factors such as exposure to radiation therapy or due to transplant status.
D84.81	Immunodeficiency due to conditions classified elsewhere	Due to a specific medical condition such as HIV, AIDS, cancers, and genetic disorders
D84.89	Other immunodeficiencies	Due to any other cause that does not fit within the other immunodeficiency cause codes

To accurately assign the ICD-10 code *D89.9, disorder involving the immune mechanism unspecified*, or *D84.9, immunodeficiency unspecified*, the patient’s immunocompromised state should not be attributed to a chronic condition or a prescribed medication therapy.

Example 1: Patient is being admitted for cellulitis of three fingers on her right hand. Once admitted, intravenous antibiotics will be started due to the patient having an immunocompromised state caused by immunosuppressant medication that she takes for systemic lupus erythematosus

ICD-10 Code	ICD-10 Description
L03.011	Cellulitis of right finger
M32.9	Systemic lupus erythematosus, unspecified
D84.821	Immunodeficiency due to drugs
Z79.899	Other long-term (current) drug therapy

Even though ICD-10-CM does not provide a specific code for immunosuppressants, Z79.899 is used to identify the immunosuppressant therapy.

Example 2: Patient with multiple myeloma is being seen for an ear infection in the left ear. They are currently being treated with chemotherapy which has caused the patient to be immunosuppressed.

ICD-10 Code	ICD-10 Description
H66.92	Otitis media, unspecified, left ear
C90.00	Multiple myeloma not having achieved remission
D84.821	Immunodeficiency due to drugs
T45.1X5A	Adverse effect of antineoplastic and immunosuppressive drugs, initial encounter
Z79.899	Other long term (current) drug therapy

When immune suppression is not part of the intended effect of the drugs (i.e.; antineoplastic), it is appropriate to code that as an adverse effect.

Example 3: Patient is here for follow-up. He is immunocompromised and after testing, we are unable to determine the cause of his immunocompromised state.

ICD-10 Code	ICD-10 Description
D89.9	Disorder involving the immune mechanism, unspecified

Impact of Coding Errors

Inaccurate coding of immune disorders not only impacts clinical continuity of care, but also impacts the accuracy of the risk of your patient panel. Disorder of the immune mechanism falls into both commercial and Medicare. By documenting and coding the correct immune scenario, you can ensure that an accurate risk score is calculated, and the precise patient health history is on record for continuity of care.

Immunocompromised state diagnosis codes: (IMMUNID)

B20	Human immunodeficiency virus [HIV] disease	I13.11	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease
B59	Pneumocystosis	I13.2	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease
C80.2	Malignant neoplasm associated with transplanted organ	K91.2	Postsurgical malabsorption, not elsewhere classified
C88.8	Other malignant immunoproliferative diseases	M35.9	Systemic involvement of connective tissue, unspecified
C94.40	Acute panmyelosis with myelofibrosis not having achieved remission	N18.5	Chronic kidney disease, stage 5
C94.41	Acute panmyelosis with myelofibrosis, in remission	N18.6	End stage renal disease
C94.42	Acute panmyelosis with myelofibrosis, in relapse	T86.00	Unspecified complication of bone marrow transplant
C94.6	Myelodysplastic disease, not classified	T86.01	Bone marrow transplant rejection
D46.22	Refractory anemia with excess of blasts 2	T86.02	Bone marrow transplant failure
D47.1	Chronic myeloproliferative disease	T86.03	Bone marrow transplant infection
D47.9	Neoplasm of uncertain behavior of lymphoid, hematopoietic and related tissue, unspecified	T86.09	Other complications of bone marrow transplant

D47.Z1	Post-transplant lymphoproliferative disorder (PTLD)	T86.10	Unspecified complication of kidney transplant
D47.Z9	Other specified neoplasms of uncertain behavior of lymphoid, hematopoietic and related tissue	T86.11	Kidney transplant rejection
D61.09	Other constitutional aplastic anemia	T86.12	Kidney transplant failure
D61.810	Antineoplastic chemotherapy induced pancytopenia	T86.13	Kidney transplant infection
D61.811	Other drug-induced pancytopenia	T86.19	Other complication of kidney transplant
D61.818	Other pancytopenia	T86.20	Unspecified complication of heart transplant
D70.0	Congenital agranulocytosis	T86.21	Heart transplant rejection
D70.1	Agranulocytosis secondary to cancer chemotherapy	T86.22	Heart transplant failure
D70.2	Other drug-induced agranulocytosis	T86.23	Heart transplant infection
D70.4	Cyclic neutropenia	T86.290	Cardiac allograft vasculopathy
D70.8	Other neutropenia	T86.298	Other complications of heart transplant
D70.9	Neutropenia, unspecified	T86.30	Unspecified complication of heart-lung transplant
D71	Functional disorders of polymorphonuclear neutrophils	T86.31	Heart-lung transplant rejection

D72.0	Genetic anomalies of leukocytes	T86.32	Heart-lung transplant failure
D72.810	Lymphocytopenia	T86.33	Heart-lung transplant infection
D72.818	Other decreased white blood cell count	T86.39	Other complications of heart-lung transplant
D72.819	Decreased white blood cell count, unspecified	T86.40	Unspecified complication of liver transplant
D73.81	Neutropenic splenomegaly	T86.41	Liver transplant rejection
D75.81	Myelofibrosis	T86.42	Liver transplant failure
D76.1	Hemophagocytic lymphohistiocytosis	T86.43	Liver transplant infection
D76.2	Hemophagocytic syndrome, infection-associated	T86.49	Other complications of liver transplant
D76.3	Other histiocytosis syndromes	T86.5	Complications of stem cell transplant
D80.0	Hereditary hypogammaglobulinemia	T86.810	Lung transplant rejection
D80.1	Nonfamilial hypogammaglobulinemia	T86.811	Lung transplant failure
D80.2	Selective deficiency of immunoglobulin A [IgA]	T86.812	Lung transplant infection
D803	Selective deficiency of immunoglobulin G [IgG] subclasses	T86.818	Other complications of lung transplant

D80.4	Selective deficiency of immunoglobulin M [IgM]	T86.819	Unspecified complication of lung transplant
D80.5	Immunodeficiency with increased immunoglobulin M [IgM]	T86.830	Bone graft rejection
D80.6	Antibody deficiency with near-normal immunoglobulins or with hyperimmunoglobulinemia	T86.831	Bone graft failure
D80.7	Transient hypogammaglobulinemia of infancy	T86.832	Bone graft infection
D80.8	Other immunodeficiencies with predominantly antibody defects	T86.838	Other complications of bone graft
D80.9	Immunodeficiency with predominantly antibody defects, unspecified	T86.839	Unspecified complication of bone graft
D81.0	Severe combined immunodeficiency [SCID] with reticular dysgenesis	T86.850	Intestine transplant rejection
D81.1	Severe combined immunodeficiency [SCID] with low T- and B-cell numbers	T86.851	Intestine transplant failure
D81.2	Severe combined immunodeficiency [SCID] with low or normal B-cell numbers	T86.852	Intestine transplant infection
D81.4	Nezelofs syndrome	T86.858	Other complications of intestine transplant
D81.6	Major histocompatibility complex class I deficiency	T86.859	Unspecified complication of intestine transplant
D81.7	Major histocompatibility complex class II deficiency	T86.890	Other transplanted tissue rejection
D81.89	Other combined immunodeficiencies	T86.891	Other transplanted tissue failure

D819	Combined immunodeficiency, unspecified	T86.892	Other transplanted tissue infection
D820	Wiskott-Aldrich syndrome	T86.898	Other complications of other transplanted tissue
D821	Di George's syndrome	T86.899	Unspecified complication of other transplanted tissue
D82.2	Immunodeficiency with short-limbed stature	T86.90	Unspecified complication of unspecified transplanted organ and tissue
D82.3	Immunodeficiency following hereditary defective response to Epstein-Barr virus	T86.91	Unspecified transplanted organ and tissue rejection
D824	Hyperimmunoglobulin E [IgE] syndrome	T8692	Unspecified transplanted organ and tissue failure
D828	Immunodeficiency associated with other specified major defects	T8693	Unspecified transplanted organ and tissue infection
D829	Immunodeficiency associated with major defect, unspecified	T8699	Other complications of unspecified transplanted organ and tissue
D830	Common variable immunodeficiency with predominant abnormalities of B-cell numbers and function	Z4821	Encounter for aftercare following heart transplant
D831	Common variable immunodeficiency with predominant immunoregulatory T-cell disorders	Z4822	Encounter for aftercare following kidney transplant
D832	Common variable immunodeficiency with autoantibodies to B- or T-cells	Z4823	Encounter for aftercare following liver transplant
D838	Other common variable immunodeficiencies	Z4824	Encounter for aftercare following lung transplant
D839	Common variable immunodeficiency, unspecified	Z48280	Encounter for aftercare following heart-lung transplant

D840	Lymphocyte function antigen-I [LFA-1] defect	Z48.290	Encounter for aftercare following bone marrow transplant
D841	Defects in the complement system	Z48.298	Encounter for aftercare following other organ transplant
D848	Other specified immunodeficiencies	Z49.01	Encounter for fitting and adjustment of extracorporeal dialysis catheter
D849	Immunodeficiency, unspecified	Z49.02	Encounter for fitting and adjustment of peritoneal dialysis catheter
D893	Immune reconstitution syndrome	Z49.31	Encounter for adequacy testing for hemodialysis
D89810	Acute graft-versus-host disease	Z94.0	Kidney transplant status
D89811	Chronic graft-versus-host disease	Z94.1	Heart transplant status
D89812	Acute on chronic graft-versus-host disease	Z94.2	Lung transplant status
D89813	Graft-versus-host disease, unspecified	Z94.3	Heart and lungs transplant status
D8982	Autoimmune lymphoproliferative syndrome [ALPS]	Z94.4	Liver transplant status
D8989	Other specified disorders involving the immune mechanism, not elsewhere classified	Z94.81	Bone marrow transplant status
D899	Disorder involving the immune mechanism, unspecified	Z94.82	Intestine transplant status
E40	Kwashiorkor	Z94.83	Pancreas transplant status

E41	Nutritional marasmus	Z94.84	Stem cells transplant status
E42	Marasmic kwashiorkor	Z94.89	Other transplanted organ and tissue status
E43	Unspecified severe protein-calorie malnutrition	Z99.2	Dependence on renal dialysis
I120	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease		