ESRD PPS Comorbidity Categories and Diagnosis Codes Crosswalk

Acute Comorbidity Categories

Gastrointestinal Bleeding

ICD-9-CM diagnosis	Descriptor	ICD-10-CM diagnosis	Descriptor
530.21	Ulcer of esophagus with bleeding	K22.11	Ulcer of esophagus with bleeding
531.00	Acute gastric ulcer with hemorrhage, without mention of obstruction	K25.0	Acute gastric ulcer with hemorrhage
531.01	Acute gastric ulcer with hemorrhage, with obstruction	K25.0	Acute gastric ulcer with hemorrhage
531.20	Acute gastric ulcer with hemorrhage and perforation, without mention of obstruction	K25.2	Acute gastric ulcer with both hemorrhage and perforation
531.21	Acute gastric ulcer with hemorrhage and perforation, with obstruction	K25.2	Acute gastric ulcer with both hemorrhage and perforation
531.40	Chronic or unspecified gastric ulcer with hemorrhage, without mention of obstruction	K25.4	Chronic or unspecified gastric ulcer with hemorrhage
531.41	Chronic or unspecified gastric ulcer with hemorrhage, with obstruction	K25.4	Chronic or unspecified gastric ulcer with hemorrhage
531.60	Chronic or unspecified gastric ulcer with hemorrhage and perforation, without mention of obstruction	K25.6	Chronic or unspecified gastric ulcer with both hemorrhage and perforation
531.61	Chronic or unspecified gastric ulcer with hemorrhage and perforation, with obstruction	K25.6	Chronic or unspecified gastric ulcer with both hemorrhage and perforation
532.00	Acute duodenal ulcer with hemorrhage, without mention of obstruction	K26.0	Acute duodenal ulcer with hemorrhage
532.01	Acute duodenal ulcer with hemorrhage, with obstruction	K26.0	Acute duodenal ulcer with hemorrhage
532.20	Acute duodenal ulcer with hemorrhage and perforation, without mention of obstruction	K26.2	Acute duodenal ulcer with both hemorrhage and perforation
532.21	Acute duodenal ulcer with hemorrhage and perforation, with obstruction	K26.2	Acute duodenal ulcer with both hemorrhage and perforation
532.40	Chronic or unspecified duodenal ulcer with hemorrhage, without mention of obstruction	K26.4	Chronic or unspecified duodenal ulcer with hemorrhage

532.41	Chronic or unspecified duodenal ulcer with hemorrhage, with obstruction	K26.4	Chronic or unspecified duodenal ulcer with hemorrhage
532.60	Chronic or unspecified duodenal ulcer with hemorrhage and perforation, without mention of obstruction	K26.6	Chronic or unspecified duodenal ulcer with both hemorrhage and perforation
532.61	Chronic or unspecified duodenal ulcer with hemorrhage and perforation, with obstruction	K26.6	Chronic or unspecified duodenal ulcer with both hemorrhage and perforation
533.00	Acute peptic ulcer of unspecified site with hemorrhage, without mention of obstruction	K27.0	Acute peptic ulcer, site unspecified, with hemorrhage
533.01	Acute peptic ulcer of unspecified site with hemorrhage, with obstruction	K27.0	Acute peptic ulcer, site unspecified, with hemorrhage
533.20	Acute peptic ulcer of unspecified site with hemorrhage and perforation, without mention of obstruction	K27.2	Acute peptic ulcer, site unspecified, with both hemorrhage and perforation
533.21	Acute peptic ulcer of unspecified site with hemorrhage and perforation, with obstruction	K27.2	Acute peptic ulcer, site unspecified, with both hemorrhage and perforation
533.40	Chronic or unspecified peptic ulcer of unspecified site with hemorrhage, without mention of obstruction	K27.4	Chronic or unspecified peptic ulcer, site unspecified, with hemorrhage
533.41	Chronic or unspecified peptic ulcer of unspecified site with hemorrhage, with obstruction	K27.4	Chronic or unspecified peptic ulcer, site unspecified, with hemorrhage
533.60	Chronic or unspecified peptic ulcer of unspecified site with hemorrhage and perforation, without mention of obstruction	K27.6	Chronic or unspecified peptic ulcer, site unspecified, with both hemorrhage and perforation
533.61	Chronic or unspecified peptic ulcer of unspecified site with hemorrhage and perforation, with obstruction	K27.6	Chronic or unspecified peptic ulcer, site unspecified, with both hemorrhage and perforation
534.00	Acute gastrojejunal ulcer with hemorrhage, without mention of obstruction	K28.0	Acute gastrojejunal ulcer with hemorrhage
534.01	Acute gastrojejunal ulcer, with hemorrhage, with obstruction	K28.0	Acute gastrojejunal ulcer with hemorrhage
534.20	Acute gastrojejunal ulcer with hemorrhage and perforation, without mention of obstruction	K28.2	Acute gastrojejunal ulcer with both hemorrhage and perforation

534.21	Acute gastrojejunal ulcer with hemorrhage and perforation, with obstruction	K28.2	Acute gastrojejunal ulcer with both hemorrhage and perforation
534.40	Chronic or unspecified gastrojejunal ulcer with hemorrhage, without mention of obstruction	K28.4	Chronic or unspecified gastrojejunal ulcer with hemorrhage
534.41	Chronic or unspecified gastrojejunal ulcer, with hemorrhage, with obstruction	K28.4	Chronic or unspecified gastrojejunal ulcer with hemorrhage
534.60	Chronic or unspecified gastrojejunal ulcer with hemorrhage and perforation, without mention of obstruction	K28.6	Chronic or unspecified gastrojejunal ulcer with both hemorrhage and perforation
534.61	Chronic or unspecified gastrojejunal ulcer with hemorrhage and perforation, with obstruction	K28.6	Chronic or unspecified gastrojejunal ulcer with both hemorrhage and perforation
535.71	Eosinophilic gastritis, with hemorrhage	K52.81[1]	Eosinophilic gastritis or gastroenteritis
537.83	Angiodysplasia of stomach and duodenum with hemorrhage	K31.811	Angiodysplasia of stomach and duodenum with bleeding
562.02	Diverticulosis of small intestine with hemorrhage	K57.11	Diverticulosis of small intestine without perforation or abscess with bleeding
562.02	Diverticulosis of small intestine with hemorrhage	K57.51	Diverticulosis of both small and large intestine without perforation or abscess with bleeding
562.03	Diverticulitis of small intestine with hemorrhage	K57.01	Diverticulitis of small intestine with perforation and abscess with bleeding
562.03	Diverticulitis of small intestine with hemorrhage	K57.13	Diverticulitis of small intestine without perforation or abscess with bleeding
562.03	Diverticulitis of small intestine with hemorrhage	K57.41	Diverticulitis of both small and large intestine with perforation and abscess with bleeding
562.03	Diverticulitis of small intestine with hemorrhage	K57.53	Diverticulitis of both small and large intestine without perforation or abscess with bleeding
562.12	Diverticulosis of colon with hemorrhage	K57.31	Diverticulosis of large intestine without perforation or abscess with bleeding
562.12	Diverticulosis of colon with hemorrhage	K57.51	Diverticulosis of both small and large intestine without perforation or abscess with bleeding

562.12	Diverticulosis of colon with hemorrhage	K57.91	Diverticulosis of intestine, part unspecified, without perforation or abscess with bleeding
562.13	Diverticulitis of colon with hemorrhage	K57.21	Diverticulitis of large intestine with perforation and abscess with bleeding
562.13	Diverticulitis of colon with hemorrhage	K57.33	Diverticulitis of large intestine without perforation or abscess with bleeding
562.13	Diverticulitis of colon with hemorrhage	K57.41	Diverticulitis of both small and large intestine with perforation and abscess with bleeding
562.13	Diverticulitis of colon with hemorrhage	K57.53	Diverticulitis of both small and large intestine without perforation or abscess with bleeding
562.13	Diverticulitis of colon with hemorrhage	K57.81	Diverticulitis of intestine, part unspecified, with perforation and abscess with bleeding
562.13	Diverticulitis of colon with hemorrhage	K57.93	Diverticulitis of intestine, part unspecified, without perforation or abscess with bleeding
569.85	Angiodysplasia of intestine with hemorrhage	K55.21	Angiodysplasia of colon with hemorrhage

Bacterial Pneumonia

ICD-9-CM diagnosis	Descriptor	ICD-10-CM diagnosis	Descriptor
003.22	Salmonella pneumonia	A02.22	Salmonella pneumonia
482.00	Pneumonia due to Klebsiella pneumoniae	J15.0	Pneumonia due to Klebsiella pneumoniae
482.10	Pneumonia due to Pseudomonas	J15.1	Pneumonia due to Pseudomonas
482.20	Pneumonia due to Hemophilus influenzae [H. influenzae]	J14	Pneumonia due to Hemophilus influenzae
482.30	Pneumonia due to Streptococcus, unspecified	J15.4	Pneumonia due to other streptococci
482.31	Pneumonia due to Streptococcus, group A	J15.4	Pneumonia due to other streptococci
482.32	Pneumonia due to Streptococcus, group B	J15.3	Pneumonia due to streptococcus, group B
482.39	Pneumonia due to other Streptococcus	J15.4	Pneumonia due to other streptococci
482.40	Pneumonia due to Staphylococcus, unspecified	J15.20	Pneumonia due to staphylococcus, unspecified
482.41	Methicillin susceptible pneumonia due to Staphylococcus aureus	J15.211	Pneumonia due to Methicillin susceptible Staphylococcus aureus
482.42	Methicillin resistant pneumonia due to Staphylococcus aureus	J15.212	Pneumonia due to Methicillin resistant Staphylococcus aureus

482.49	Other Staphylococcus pneumonia	J15.29	Pneumonia due to other staphylococcus
482.81	Pneumonia due to anaerobes	J15.8	Pneumonia due to other specified bacteria
482.82	Pneumonia due to escherichia coli [E. coli]	J15.5	Pneumonia due to Escherichia coli
482.83	Pneumonia due to other gram-negative bacteria	J15.6	Pneumonia due to other aerobic Gram-negative bacteria
482.84	Pneumonia due to Legionnaires' disease	A48.1	Legionnaires' disease
482.89	Pneumonia due to other specified bacteria	J15.8	Pneumonia due to other specified bacteria
507.00	Pneumonitis due to inhalation of food or vomitus	J69.0	Pneumonitis due to inhalation of food and vomit
507.80	Pneumonitis due to other solids and liquids	J69.8	Pneumonitis due to inhalation of other solids and liquids
510.00	Empyema with fistula	J86.0	Pyothorax with fistula
510.90	Empyema without mention of fistula	J86.9	Pyothorax without fistula
513.00	Abscess of lung	J85.0	Gangrene and necrosis of lung
513.00	Abscess of lung	J85.1	Abscess of lung with pneumonia
513.00	Abscess of lung	J85.2	Abscess of lung without pneumonia

Pericarditis

ICD-9-CM diagnosis	Descriptor	ICD-10-CM diagnosis	Descriptor
420.00	Acute pericarditis in diseases classified elsewhere	A18.84	Tuberculosis of heart
420.00	Acute pericarditis in diseases classified elsewhere	I32	Pericarditis in diseases classified elsewhere
420.00	Acute pericarditis in diseases classified elsewhere	M32.12	Pericarditis in systemic lupus erythematosus
420.90	Acute pericarditis, unspecified	I30.1	Infective pericarditis
420.90	Acute pericarditis, unspecified	I30.9	Acute pericarditis, unspecified
420.91	Acute idiopathic pericarditis	I30.0	Acute nonspecific idiopathic pericarditis
420.99	Other acute pericarditis	I30.8	Other forms of acute pericarditis
420.99	Other acute pericarditis	I30.9	Acute pericarditis, unspecified

Chronic Comorbidity Categories

Hereditary Hemolytic and Sickle Cell Anemia

ICD-9-CM diagnosis	Descriptor	ICD-10-CM diagnosis	Descriptor
282.00	Hereditary spherocytosis	D58.0	Hereditary spherocytosis
282.10	Hereditary elliptocytosis	D58.1	Hereditary elliptocytosis
282.20	Anemias due to disorders of glutathione metabolism	D55.0	Anemia due to glucose-6-phosphate dehydrogenase [G6PD] deficiency
282.20	Anemias due to disorders of glutathione metabolism	D55.1	Anemia due to other disorders of glutathione metabolism
282.30	Other hemolytic anemias due to enzyme deficiency	D55.2	Anemia due to disorders of glycolytic enzymes
282.30	Other hemolytic anemias due to enzyme deficiency	D55.3	Anemia due to disorders of nucleotide metabolism
282.30	Other hemolytic anemias due to enzyme deficiency	D55.8	Other anemias due to enzyme disorders
282.30	Other hemolytic anemias due to enzyme deficiency	D55.9	Anemia due to enzyme disorder, unspecified
282.41	Sickle-cell thalassemia without crisis	D57.40	Sickle-cell thalassemia without crisis
282.42	Sickle-cell thalassemia with crisis	D57.411	Sickle-cell thalassemia with acute chest syndrome
282.42	Sickle-cell thalassemia with crisis	D57.412	Sickle-cell thalassemia with splenic sequestration
282.42	Sickle-cell thalassemia with crisis	D57.419	Sickle-cell thalassemia with crisis, unspecified
282.43	Alpha thalassemia	D56.0	Alpha thalassemia
282.44	Beta thalassemia	D56.1	Beta thalassemia
282.45	Delta-beta thalassemia	D56.2	Delta-beta thalassemia
282.46	Thalassemia minor	D56.3	Thalassemia minor
282.47	Hemoglobin E-beta thalassemia	D56.5	Hemoglobin E-beta thalassemia
282.49	Other thalassemia	D56.8	Other thalassemias
282.61	Hb-SS disease without crisis	D57.1	Sickle-cell disease without crisis
282.62	Hb-SS disease with crisis	D57.00	Hb-SS disease with crisis, unspecified
282.62	Hb-SS disease with crisis	D57.01	Hb-SS disease with acute chest syndrome
282.62	Hb-SS disease with crisis	D57.02	Hb-SS disease with splenic sequestration
282.63	Sickle-cell/Hb-C disease without crisis	D57.20	Sickle-cell/Hb-C disease without crisis
282.64	Sickle-cell/Hb-C disease with crisis	D57.211	Sickle-cell/Hb-C disease with acute chest syndrome
282.64	Sickle-cell/Hb-C disease with crisis	D57.212	Sickle-cell/Hb-C disease with splenic sequestration

282.64	Sickle-cell/Hb-C disease with crisis	D57.219	Sickle-cell/Hb-C disease with crisis, unspecified
282.68	Other sickle-cell disease without crisis	D57.80	Other sickle-cell disorders without crisis
282.69	Other sickle-cell disease with crisis	D57.811	Other sickle-cell disorders with acute chest syndrome
282.69	Other sickle-cell disease with crisis	D57.812	Other sickle-cell disorders with splenic sequestration
282.69	Other sickle-cell disease with crisis	D57.819	Other sickle-cell disorders with crisis, unspecified

Monoclonal Gammopathy

ICD-9-CM diagnosis	Descriptor	ICD-10-CM diagnosis	Descriptor
273.10	Monoclonal paraproteinemia	D47.2	Monoclonal gammopathy
273.10	Monoclonal paraproteinemia	D89.2[1]	Hypergammaglobulinemia, unspecified

Myelodysplastic Syndrome

ICD-9-CM diagnosis	Descriptor	ICD-10-CM diagnosis	Descriptor
238.71	Essential thrombocythemia	D47.3	Essential (hemorrhagic) thrombocythemia
238.72	Low grade myelodysplastic syndrome lesions	D46.0	Refractory anemia without ring sideroblasts, so stated
238.72	Low grade myelodysplastic syndrome lesions	D46.1	Refractory anemia with ring sideroblasts
238.72	Low grade myelodysplastic syndrome lesions	D46.20	Refractory anemia with excess of blasts, unspecified
238.72	Low grade myelodysplastic syndrome lesions	D46.21	Refractory anemia with excess of blasts 1
238.72	Low grade myelodysplastic syndrome lesions	D46.4	Refractory anemia, unspecified
238.72	Low grade myelodysplastic syndrome lesions	D46.A	Refractory cytopenia with multilineage dysplasia
238.72	Low grade myelodysplastic syndrome lesions	D46.B	Refractory cytopenia with multilineage dysplasia and ring sideroblasts
238.73	High grade myelodysplastic syndrome lesions	D46.22	Refractory anemia with excess of blasts 2
238.74	Myelodysplastic syndrome with 5q deletion	D46.C	Myelodysplastic syndrome with isolated del(5q) chromosomal abnormality
238.75	Myelodysplastic syndrome, unspecified	D46.9	Myelodysplastic syndrome, unspecified
238.75	Myelodysplastic syndrome, unspecified	D46.Z	Other myelodysplastic syndromes
238.76	Myelofibrosis with myeloid metaplasia	D47.1	Chronic myeloproliferative disease

[1] Effective October 1, 2015, the ICD-10-CM diagnosis code does not qualify as a comorbidity eligible for the comorbidity payment adjustment under the ESRD PPS (78 FR 72179, December 2, 2013. Source: https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/ESRDpayment/Comorbidity_Conditions.html