

**Supplemental Table 1.** Baseline Elixhauser comorbidities, overall and among the escalation analysis cohort.

Elixhauser Comorbidities <sup>a,b,c</sup> , n (%)	Overall eculizumab cohort	Escalation analysis cohort <sup>d</sup>
	N = 707	N = 121
Hypertension	180 (25.5)	30 (24.8)
Hypertension, uncomplicated	148 (20.9)	27 (22.3)
Hypertension, complicated	85 (12.0)	7 (5.8)
Coagulopathy	172 (24.3)	48 (39.7)
Renal failure	127 (18.0)	12 (9.9)
Deficiency anemias	85 (12.0)	23 (19.0)
Rheumatoid arthritis/collagen vascular disease	67 (9.5)	5 (4.1)
Cardiac arrhythmias	52 (7.4)	10 (8.3)
Diabetes	48 (6.8)	6 (5.0)
Diabetes, uncomplicated	34 (4.8)	5 (4.1)
Diabetes, complicated	26 (3.7)	3 (2.5)
Chronic pulmonary disease	42 (5.9)	5 (4.1)
Liver disease	33 (4.7)	5 (4.1)
Valvular disease	30 (4.2)	8 (6.6)
Solid tumor without metastasis	27 (3.8)	5 (4.1)
Weight loss	27 (3.8)	4 (3.3)
Peripheral vascular disorders	24 (3.4)	4 (3.3)
Pulmonary circulation disorder	24 (3.4)	5 (4.1)
Obesity	24 (3.4)	6 (5.0)
Congestive heart failure	22 (3.1)	2 (1.7)
Lymphoma	20 (2.8)	1 (0.8)
Other neurological disorders	19 (2.7)	2 (1.7)
Blood loss anemia	14 (2.0)	7 (5.8)
Fluid and electrolyte disorders	8 (1.1)	2 (1.7)
Metastatic cancer	8 (1.1)	0 (0.0)
Peptic ulcer disease	7 (1.0)	2 (1.7)
Hypothyroidism	5 (0.7)	1 (0.8)
Alcohol abuse	5 (0.7)	1 (0.8)
Drug abuse	5 (0.7)	1 (0.8)
Paralysis	3 (0.4)	0 (0.0)
HIV/AIDS	2 (0.3)	0 (0.0)

**Abbreviations:** AIDS: acquired immune deficiency syndrome; HIV: human immunodeficiency virus; ICD-9-CM: International Classification of Diseases, 9<sup>th</sup> Revision, Clinical Modification; ICD-10-CM: International Classification of Diseases, 10<sup>th</sup> Revision, Clinical Modification

**Notes:**

- a. Reference: Quan H, Sundararajan V, Halfon P, et al. Coding algorithms for defining comorbidities in ICD-9-CM and ICD-10 administrative data. *Med Care.* 2005;43(11):1130-1139.  
doi:10.1097/01.mlr.0000182534.19832.83.
- b. Evaluated during the 3-month baseline period, not including the index date.
- c. See Online Resource 10 for a complete list of ICD-9/10-CM diagnosis codes.

- d. The escalation analysis cohort is a subset of patients from the overall eculizumab cohort who had a label-recommended induction phase (i.e. received 4 doses of 600 mg eculizumab infusion, each 7 days  $\pm$  2 days apart) and received  $\geq 1$  dose of eculizumab infusion during treatment in the maintenance phase.

**Supplemental Table 2. ICD-9/10-CM Codes for Quan-Charlson Comorbidity Index Score**

Condition	ICD-9-CM Diagnosis Codes	ICD-10-CM Diagnosis Codes
Any malignancy, including lymphoma and leukemia, except malignant neoplasm of skin	140.x–172.x, 174.x–195.8, 200.x–208.x, 238.6	C41.x, C43.x, C45.x–C58.x, C60.x–C76.x, C81.x–C85.x, C88.x, C90.x–C97.x
Cerebrovascular disease	362.34, 430.x–438.x	G45.x, G46.x, H34.0, I60.x–I69.x
Chronic pulmonary disease	416.8, 416.9, 490.x–505.x, 506.4, 508.1, 508.8	I27.8, I27.9, J40.x–J47.x, J60.x–J67.x, J68.4, J70.1, J70.3
Congestive heart failure	398.91, 402.01, 402.11, 402.91, 404.01, 404.03, 404.11, 404.13, 404.91, 404.93, 425.4–425.9, 428.x	I09.9, I11.0, I13.0, I13.2, I25.5, I42.0, I42.5–I42.9, I43.x, I50.x, P29.0
Dementia	290.x, 294.1, 331.2	F00.x–F03.x, F05.1, G30.x, G31.1
Diabetes with chronic complication	250.4–250.7	E10.2–E10.5, E10.7, E11.2–E11.5, E11.7, E12.2–E12.5, E12.7, E13.2–E13.5, E13.7, E14.2–E14.5, E14.7
Diabetes without chronic complication	250.0–250.3, 250.8, 250.9	E10.0, E10.1, E10.6, E10.8, E10.9, E11.0, E11.1, E11.6, E11.8, E11.9, E12.0, E12.1, E12.6, E12.8, E12.9, E13.0, E13.1, E13.6, E13.8, E13.9, E14.0, E14.1, E14.6, E14.8, E14.9
Hemiplegia or paraplegia	334.1, 342.x, 343.x, 344.0–344.6, 344.9	G04.1, G11.4, G80.1, G80.2, G81.x, G82.x, G83.0–G83.4, G83.9
HIV/AIDS	042.x–044.x	B20.x–B22.x, B24.x
Metastatic solid tumor	196.x–199.x	C77.x–C80.x
Mild liver disease	070.22, 070.23, 070.32, 070.33, 070.44, 070.54, 070.6, 070.9, 570.x, 571.x, 573.3, 573.4, 573.8, 573.9, V42.7	K71.3–K71.5, K71.7, K73.x, K74.x, K76.0, K76.2–K76.4, K76.8, K76.9, Z94.4
Moderate or severe liver disease	456.0–456.2, 572.2–572.8	I85.0, I85.9, I86.4, I98.2, K70.4, K71.1, K72.1, K72.9, K76.5, K76.6, K76.7
Myocardial infarction	410.x, 412.x	I21.x, I22.x, I25.2
Peptic ulcer disease	531.x–534.x	K25.x–K28.x
Peripheral vascular disease	093.0, 437.3, 440.x, 441.x, 443.1–443.9, 47.1, 557.1, 557.9, V43.4	I70.x, I71.x, I73.1, I73.8, I73.9, I77.1, I79.0, I79.2, K55.1, K55.8, K55.9, Z95.8, Z95.9
Renal disease	404.03, 404.12, 404.13, 404.92, 404.93, 582.x, 583.0–583.7, 585.x, 586.x, 588.0, V42.0, V45.1, V56.x	N05.7, N18.x, N19.x, N25.0, Z49.0–Z49.2, Z94.0, Z99.2
Rheumatic disease	446.5, 710.0–710.4, 714.0–714.2, 714.8, 725.x	M05.x, M06.x, M31.5, M32.x–M34.x, M35.1, M35.3, M36.0

AIDS: acquired immune deficiency syndrome; HIV: human immunodeficiency viruses; ICD-10-CM: International Classification of Diseases, 10th Revision, Clinical Modification

**Source:**

Quan H et al. Updating and Validating the Charlson Comorbidity Index and Score for Risk Adjustment in Hospital Discharge Abstracts Using Data From 6 Countries. *Am J Epidemiol* 2011; 173 (6): 676-682.

**Supplemental Table 3. ICD-9/10-CM Codes for PNH-Related Comorbidities**

<b>Condition</b>	<b>ICD-9-CM Diagnosis Codes</b>	<b>ICD-10-CM Diagnosis Codes</b>
Aplastic anemia	284	D61.x
Myelodysplastic syndrome	238.72-238.75	D46.x

ICD-10-CM: International Classification of Diseases, 10th Revision, Clinical Modification; PNH: paroxysmal nocturnal hemoglobinuria

**Supplemental Table 4. ICD-9/10-CM Codes for Clinical Manifestations of PNH**

<b>Condition</b>	<b>ICD-9-CM Diagnosis Codes</b>	<b>ICD-10-CM Diagnosis Codes</b>
Abdominal pain	789.0x, 789.6	R10.0-R10.3, R10.8, R10.9
Anemia (excluding aplastic anemia)	280.x-282.x, 283.0x, 283.1x, 283.9x, 285.x	D50.x-D53.x, D55.x-D58.x, D59.0, D59.1, D59.2, D59.3, D59.4, D59.6, D59.8, D59.9, D60.x, D62.x-D64.x
Chronic kidney disease	403.x, 404.x, 585.x	I12.0, I12.9, I13.0, I13.10, I13.11, I13.2, N18.1-N18.6, N18.9
Dysphagia	787.2x	R13.1.x
Dyspnea	786.02, 786.05	R06.0x
Erectile dysfunction	607.84	N52.0, N52.1
Fatigue	780.71, 780.79	R53.82, R53.83
Infections	001-139	A00.x-B99.x
Sepsis	038, 790.7, 995.91, 995.92	A40.x, A41.x, R65.2, R78.81
Respiratory infections	460-466, 472, 473, 476, 480-488	J00.x-J06.x, J09.x-J18.x, J31.x, J32.x, J37.x, R05.x
Kidney and urinary tract infections	590.0, 590.1, 590.80, 590.9, 595, 597.80, 599.0	N10.x, N11.0, N11.1, N12.x, N15.9, N30.x, N34.x, N39.0
Pulmonary hypertension	416.0, 416.8	I27.0, I27.2
Thrombosis	444.x, 452, 453.x	I74.x, I81.x, I82.x

ICD-9-CM: International Classification of Diseases, 9th Revision, Clinical Modification; ICD-10-CM: International Classification of Diseases, 10th Revision, Clinical Modification; PNH: paroxysmal nocturnal hemoglobinuria

**Supplemental Table 5. HCPCS Codes for PNH-Related Treatments of Interest—Systemic Corticosteroids**

<b>Agent</b>	<b>Description</b>	<b>Code</b>
Betamethasone	Betamethasone, inhalation solution, compounded product, administered through dme, unit dose form, per milligram	J7624
Betamethasone	Injection, betamethasone acetate 3 mg and betamethasone sodium phosphate 3 mg	J0702
Budesonide	Budesonide, inhalation solution, compounded product, administered through dme, concentrated form, per 0.25 milligram	J7634
Budesonide	Budesonide, inhalation solution, compounded product, administered through dme, unit dose form, up to 0.5 mg	J7627
Budesonide	Budesonide, inhalation solution, FDA-approved final product, non-compounded, administered through dme, concentrated form, per 0.25 milligram	J7633
Budesonide	Budesonide, inhalation solution, FDA-approved final product, non-compounded, administered through dme, unit dose form, up to 0.5 mg	J7626
Cortisone	Injection, hydrocortisone acetate, up to 25 mg	J1700
Cortisone	Injection, hydrocortisone sodium phosphate, up to 50 mg	J1710
Cortisone	Injection, hydrocortisone sodium succinate, up to 100 mg	J1720
Dexamethasone	Dexamethasone, inhalation solution, compounded product, administered through dme, concentrated form, per milligram	J7637
Dexamethasone	Dexamethasone, inhalation solution, compounded product, administered through dme, unit dose form, per milligram	J7638
Dexamethasone	Dexamethasone, oral, 0.25 mg	J8540
Dexamethasone	Injection, dexamethasone acetate, 1 mg	J1094
Dexamethasone	Injection, dexamethasone sodium phosphate, 1 mg	J1100
Dexamethasone	Injection, dexamethasone, intravitreal implant, 0.1 mg	J7312
Hydrocortisone	Injection, hydrocortisone acetate, up to 25 mg	J1700
Hydrocortisone	Injection, hydrocortisone sodium phosphate, up to 50 mg	J1710
Hydrocortisone	Injection, hydrocortisone sodium succinate, up to 100 mg	J1720
Methylprednisolone	Injection, methylprednisolone acetate, 20 mg	J1020
Methylprednisolone	Injection, methylprednisolone acetate, 40 mg	J1030
Methylprednisolone	Injection, methylprednisolone acetate, 80 mg	J1040
Methylprednisolone	Injection, methylprednisolone sodium succinate, up to 125 mg	J2930
Methylprednisolone	Injection, methylprednisolone sodium succinate, up to 40 mg	J2920
Methylprednisolone	Methylprednisolone oral, per 4 mg	J7509
Prednisolone	Injection, methylprednisolone acetate, 20 mg	J1020
Prednisolone	Injection, methylprednisolone acetate, 40 mg	J1030
Prednisolone	Injection, methylprednisolone acetate, 80 mg	J1040
Prednisolone	Injection, methylprednisolone sodium succinate, up to 125 mg	J2930
Prednisolone	Injection, methylprednisolone sodium succinate, up to 40 mg	J2920
Prednisolone	Injection, prednisolone acetate, up to 1 ml	J2650
Prednisolone	Methylprednisolone oral, per 4 mg	J7509
Prednisolone	Prednisolone oral, per 5 mg	J7510
Prednisone	Prednisone, immediate release or delayed release, oral, 1 mg	J7512
Prednisone	Prednisone, oral, per 5 mg	J7506
Triamcinolone	Injection, triamcinolone acetonide, not otherwise specified, 10 mg	J3301
Triamcinolone	Injection, triamcinolone acetonide, preservative free, 1 mg	J3300
Triamcinolone	Injection, triamcinolone diacetate, per 5 mg	J3302
Triamcinolone	Injection, triamcinolone hexacetonide, per 5 mg	J3303
Triamcinolone	Triamcinolone, inhalation solution, compounded product, administered through dme, concentrated form, per milligram	J7683
Triamcinolone	Triamcinolone, inhalation solution, compounded product, administered through dme, unit dose form, per milligram	J7684

HCPCS: Healthcare Commons Procedure Coding System; PNH: paroxysmal nocturnal hemoglobinuria

Supplemental Table 6. GPI and NDC Codes for PNH-Related Treatments of Interest—Systemic Corticosteroids

Agent	Description	GPI code	NDC code
Betamethasone	*Betameth Na Pho&Acc Inj 6 MG/ML & Bupiv 0.25% & Lido1% Kit*	22 10 99 04 20 64 20	45861012901
Betamethasone	*Betameth Na Pho&Acc Inj 6 MG/ML & Bupiv 0.25% & Lido1% Kit*	22 10 99 04 20 64 20	76420078201
Betamethasone	*Betameth Na Pho&Acc Inj 6 MG/ML & Bupiv 0.5% & Lido1% Kit*	22 10 99 04 20 64 30	49836001720
Betamethasone	*Betameth Na Pho&Acc Inj 6 MG/ML & Bupiv 0.5% & Lido1% Kit*	22 10 99 04 20 64 30	53225410501
Betamethasone	*Betameth Sod Phos-Ace Inj 30 MG/5 ML & Anesthetic Spr Kit**	22 10 99 03 08 64 30	49836001919
Betamethasone	*Betameth Sod Phos-Ace Inj 30 MG/5 ML & Anesthetic Spr Kit**	22 10 99 03 08 64 30	76420024001
Betamethasone	*Betamethasone Sod Phos & Ace Inj 6 MG/ML & Bupiv 0.25% Kit*	22 10 99 03 10 64 20	45861012801
Betamethasone	*Betamethasone Sod Phos & Ace Inj 6 MG/ML & Bupiv 0.25% Kit*	22 10 99 03 10 64 20	76420078501
Betamethasone	*Betamethasone Sod Phos & Ace Inj 6 MG/ML & Lido Inj 1% Kit*	22 10 99 03 15 64 20	69263081801
Betamethasone	*Betamethasone Sod Phos & Ace Inj 6 MG/ML & Lido Inj 1% Kit*	22 10 99 03 15 64 20	76420076501
Betamethasone	Betamethasone Acetate & Sod Phosphate Inj Susp 3-3 MG/ML	22 10 99 02 10 18 10	00085056605
Betamethasone	Betamethasone Acetate & Sod Phosphate Inj Susp 3-3 MG/ML	22 10 99 02 10 18 10	00259037705
Betamethasone	Betamethasone Acetate & Sod Phosphate Inj Susp 3-3 MG/ML	22 10 99 02 10 18 10	00517072001
Betamethasone	Betamethasone Acetate & Sod Phosphate Inj Susp 3-3 MG/ML	22 10 99 02 10 18 10	00904081805
Betamethasone	Betamethasone Acetate & Sod Phosphate Inj Susp 3-3 MG/ML	22 10 99 02 10 18 10	35356008401
Betamethasone	Betamethasone Acetate & Sod Phosphate Inj Susp 3-3 MG/ML	22 10 99 02 10 18 10	40042004805
Betamethasone	Betamethasone Acetate & Sod Phosphate Inj Susp 3-3 MG/ML	22 10 99 02 10 18 10	54569163001
Betamethasone	Betamethasone Acetate & Sod Phosphate Inj Susp 3-3 MG/ML	22 10 99 02 10 18 10	54868020600
Betamethasone	Betamethasone Acetate & Sod Phosphate Inj Susp 3-3 MG/ML	22 10 99 02 10 18 10	58016919101
Betamethasone	Betamethasone Acetate & Sod Phosphate Inj Susp 3-3 MG/ML	22 10 99 02 10 18 10	68258895605
Betamethasone	Betamethasone Sod Phos & Acet Inj Kit 30 MG/5 ML (6 MG/ML)	22 10 99 02 10 64 30	49836001817
Betamethasone	Betamethasone Sod Phos & Acet Inj Kit 30 MG/5 ML (6 MG/ML)	22 10 99 02 10 64 30	53225366501
Betamethasone	Betamethasone Sod Phos & Acet Inj Kit 30 MG/5 ML (6 MG/ML)	22 10 99 02 10 64 30	69263082201
Betamethasone	Betamethasone Sod Phosphate & Acet PF Inj 12 (6-6) MG/2ML	22 10 99 02 10 18 25	62295301802
Betamethasone	Betamethasone Sod Phosphate & Acetate Inj Susp 6 (3-3) MG/ML	22 10 99 02 10 18 10	00085056605
Betamethasone	Betamethasone Sod Phosphate & Acetate Inj Susp 6 (3-3) MG/ML	22 10 99 02 10 18 10	00085432001
Betamethasone	Betamethasone Sod Phosphate & Acetate Inj Susp 6 (3-3) MG/ML	22 10 99 02 10 18 10	00517072001
Betamethasone	Betamethasone Sod Phosphate & Acetate Inj Susp 6 (3-3) MG/ML	22 10 99 02 10 18 10	35356008401
Betamethasone	Betamethasone Sod Phosphate & Acetate Inj Susp 6 (3-3) MG/ML	22 10 99 02 10 18 10	40042004805
Betamethasone	Betamethasone Sod Phosphate & Acetate Inj Susp 6 (3-3) MG/ML	22 10 99 02 10 18 10	51754506001
Betamethasone	Betamethasone Sod Phosphate & Acetate Inj Susp 6 (3-3) MG/ML	22 10 99 02 10 18 10	54868020600
Betamethasone	Betamethasone Sod Phosphate & Acetate Inj Susp 6 (3-3) MG/ML	22 10 99 02 10 18 10	58016919101
Betamethasone	Betamethasone Sod Phosphate & Acetate Inj Susp 6 (3-3) MG/ML	22 10 99 02 10 18 10	68258890605
Betamethasone	Betamethasone Sod Phosphate & Acetate Inj Susp 6 (3-3) MG/ML	22 10 99 02 10 18 10	68258890705
Betamethasone	Betamethasone Sod Phosphate & Acetate Inj Susp 6 (3-3) MG/ML	22 10 99 02 10 18 10	68258895605
Betamethasone	Betamethasone Sod Phosphate & Acetate Inj Susp 6 (3-3) MG/ML	22 10 99 02 10 18 10	71283062002
Betamethasone	Betamethasone Sod Phosphate & Acetate Inj Susp 7 (4-3) MG/ML	22 10 99 02 10 18 30	62295328407
Betamethasone	Betamethasone Sod Phosphate & Acetate Inj Susp 7 (4-3) MG/ML	22 10 99 02 10 18 30	71283062105
Betamethasone	Betamethasone Sodium Phosphate Inj 12 MG/2ML (6 MG/ML)	22 10 00 10 20 25	71266101502
Betamethasone	Betamethasone Sodium Phosphate Inj 4 MG/ML (3MG/ML Base Eq)	22 10 00 10 20 05	00085087905
Betamethasone	Betamethasone Sodium Phosphate Inj 4 MG/ML (3MG/ML Base Eq)	22 10 00 10 20 05	00182300962
Betamethasone	Betamethasone Sodium Phosphate Inj 4 MG/ML (3MG/ML Base Eq)	22 10 00 10 20 05	00223726505
Betamethasone	Betamethasone Sodium Phosphate Inj 4 MG/ML (3MG/ML Base Eq)	22 10 00 10 20 05	00259034905
Betamethasone	Betamethasone Sodium Phosphate Inj 4 MG/ML (3MG/ML Base Eq)	22 10 00 10 20 05	00314639275
Betamethasone	Betamethasone Sodium Phosphate Inj 4 MG/ML (3MG/ML Base Eq)	22 10 00 10 20 05	00364675153
Betamethasone	Betamethasone Sodium Phosphate Inj 4 MG/ML (3MG/ML Base Eq)	22 10 00 10 20 05	00402021705
Betamethasone	Betamethasone Sodium Phosphate Inj 4 MG/ML (3MG/ML Base Eq)	22 10 00 10 20 05	00418183105
Betamethasone	Betamethasone Sodium Phosphate Inj 4 MG/ML (3MG/ML Base Eq)	22 10 00 10 20 05	00536354465
Betamethasone	Betamethasone Sodium Phosphate Inj 4 MG/ML (3MG/ML Base Eq)	22 10 00 10 20 05	00785906005
Betamethasone	Betamethasone Sodium Phosphate Inj 4 MG/ML (3MG/ML Base Eq)	22 10 00 10 20 05	00814116638
Betamethasone	Betamethasone Sodium Phosphate Inj 4 MG/ML (3MG/ML Base Eq)	22 10 00 10 20 05	00839657425
Betamethasone	Betamethasone Sodium Phosphate Inj 4 MG/ML (3MG/ML Base Eq)	22 10 00 10 20 05	00904045705
Betamethasone	Betamethasone Sodium Phosphate Inj 4 MG/ML (3MG/ML Base Eq)	22 10 00 10 20 05	43797006111
Betamethasone	Betamethasone Sodium Phosphate Inj 4 MG/ML (3MG/ML Base Eq)	22 10 00 10 20 05	47202414005
Betamethasone	Betamethasone Sodium Phosphate Inj 4 MG/ML (3MG/ML Base Eq)	22 10 00 10 20 05	47679074820
Betamethasone	Betamethasone Sodium Phosphate Inj 4 MG/ML (3MG/ML Base Eq)	22 10 00 10 20 05	52604021705
Betamethasone	Betamethasone Sodium Phosphate Inj 4 MG/ML (3MG/ML Base Eq)	22 10 00 10 20 05	54274074909
Betamethasone	Betamethasone Sodium Phosphate Inj 4 MG/ML (3MG/ML Base Eq)	22 10 00 10 20 05	54569237500
Betamethasone	Betamethasone Sodium Phosphate Inj 4 MG/ML (3MG/ML Base Eq)	22 10 00 10 20 05	54569337700
Betamethasone	Betamethasone Sodium Phosphate Inj 4 MG/ML (3MG/ML Base Eq)	22 10 00 10 20 05	57706853311
Betamethasone	Betamethasone Sodium Phosphate Inj 6 MG/ML	22 10 00 10 20 20	71266101501
Betamethasone	Betamethasone Sodium Phosphate PF Inj 24 MG/2ML	22 10 00 10 20 35	62295301602
Betamethasone	Betamethasone Sodium Phosphate Powder	22 10 00 10 29 00	10695004610
Betamethasone	Betamethasone Sodium Phosphate Powder	22 10 00 10 29 00	37803021603
Betamethasone	Betamethasone Sodium Phosphate Powder	22 10 00 10 29 00	37803021604
Betamethasone	Betamethasone Sodium Phosphate Powder	22 10 00 10 29 00	37803021608
Betamethasone	Betamethasone Sodium Phosphate Powder	22 10 00 10 29 00	38779019500
Betamethasone	Betamethasone Sodium Phosphate Powder	22 10 00 10 29 00	38779019501
Betamethasone	Betamethasone Sodium Phosphate Powder	22 10 00 10 29 00	38779019503
Betamethasone	Betamethasone Sodium Phosphate Powder	22 10 00 10 29 00	38779019505
Betamethasone	Betamethasone Sodium Phosphate Powder	22 10 00 10 29 00	38779019506
Betamethasone	Betamethasone Sodium Phosphate Powder	22 10 00 10 29 00	38779019511
Betamethasone	Betamethasone Sodium Phosphate Powder	22 10 00 10 29 00	38779019515
Betamethasone	Betamethasone Sodium Phosphate Powder	22 10 00 10 29 00	49452107701
Betamethasone	Betamethasone Sodium Phosphate Powder	22 10 00 10 29 00	49452107702
Betamethasone	Betamethasone Sodium Phosphate Powder	22 10 00 10 29 00	49452107703
Betamethasone	Betamethasone Sodium Phosphate Powder	22 10 00 10 29 00	49452107704
Betamethasone	Betamethasone Sodium Phosphate Powder	22 10 00 10 29 00	49452107705
Betamethasone	Betamethasone Sodium Phosphate Powder	22 10 00 10 29 00	49452107706
Betamethasone	Betamethasone Sodium Phosphate Powder	22 10 00 10 29 00	51552006401
Betamethasone	Betamethasone Sodium Phosphate Powder	22 10 00 10 29 00	51552006402
Betamethasone	Betamethasone Sodium Phosphate Powder	22 10 00 10 29 00	51552006403
Betamethasone	Betamethasone Sodium Phosphate Powder	22 10 00 10 29 00	51552006404
Betamethasone	Betamethasone Sodium Phosphate Powder	22 10 00 10 29 00	51552006405
Betamethasone	Betamethasone Sodium Phosphate Powder	22 10 00 10 29 00	51552006409
Betamethasone	Betamethasone Sodium Phosphate Powder	22 10 00 10 29 00	51552006410
Betamethasone	Betamethasone Sodium Phosphate Powder	22 10 00 10 29 00	51927195100
Betamethasone	Betamethasone Sodium Phosphate Powder	22 10 00 10 29 00	52372083001
Betamethasone	Betamethasone Sodium Phosphate Powder	22 10 00 10 29 00	52372083002
Betamethasone	Betamethasone Sodium Phosphate Powder	22 10 00 10 29 00	52372083003
Betamethasone	Betamethasone Sodium Phosphate Powder	22 10 00 10 29 00	52372083004
Betamethasone	Betamethasone Sodium Phosphate Powder	22 10 00 10 29 00	52372083005
Betamethasone	Betamethasone Sodium Phosphate Powder	22 10 00 10 29 00	62991102401
Betamethasone	Betamethasone Sodium Phosphate Powder	22 10 00 10 29 00	62991102402
Betamethasone	Betamethasone Sodium Phosphate Powder	22 10 00 10 29 00	62991102403
Betamethasone	Betamethasone Sodium Phosphate Powder	22 10 00 10 29 00	62991102404
Betamethasone	Betamethasone Sodium Phosphate Powder	22 10 00 10 29 00	62991102405
Betamethasone	Betamethasone Sodium Phosphate Powder	22 10 00 10 29 00	62991102406
Betamethasone	Betamethasone Sodium Phosphate Powder	22 10 00 10 29 00	63370002806
Betamethasone	Betamethasone Sodium Phosphate Powder	22 10 00 10 29 00	63370002810
Betamethasone	Betamethasone Sodium Phosphate Powder	22 10 00 10 29 00	63370002815
Betamethasone	Betamethasone Sodium Phosphate Powder	22 10 00 10 29 00	63370002825
Betamethasone	Betamethasone Sodium Phosphate Powder	22 10 00 10 29 00	63370002835
Betamethasone	Betamethasone Soln 0.6 MG/5ML	22 10 00 10 00 10	00085094205
Betamethasone	Betamethasone Tab 0.6 MG	22 10 00 10 00 03	00085001101
Betamethasone	Betamethasone Tab 0.6 MG	22 10 00 10 00 03	00085001105
Betamethasone	Betamethasone Tab 0.6 MG	22 10 00 10 00 03	40893051512
Betamethasone	Betamethasone Tab 0.6 MG	22 10 00 10 00 03	52493051512
Betamethasone	Betamethasone Tab 0.6 MG	22 10 00 10 00 03	60346076021
Budesonide	Budesonide Can SR 24HR 3 MG	22 10 00 12 00 70	00186070210
Budesonide	Budesonide Cap SR 24HR 3 MG	22 10 00 12 00 70	00378715501
Budesonide	Budesonide Cap SR 24HR 3 MG	22 10 00 12 00 70	00378715505
Budesonide	Budesonide Can SR 24HR 3 MG	22 10 00 12 00 70	49884050101





Cortisone	Cortisone Acetate Tab 25 MG	22 10 00 15 10 03 10	00537206701
Cortisone	Cortisone Acetate Tab 25 MG	22 10 00 15 10 03 10	00580010601
Cortisone	Cortisone Acetate Tab 25 MG	22 10 00 15 10 03 10	00586051301
Cortisone	Cortisone Acetate Tab 25 MG	22 10 00 15 10 03 10	00586051303
Cortisone	Cortisone Acetate Tab 25 MG	22 10 00 15 10 03 10	00603306221
Cortisone	Cortisone Acetate Tab 25 MG	22 10 00 15 10 03 10	00615050201
Cortisone	Cortisone Acetate Tab 25 MG	22 10 00 15 10 03 10	00615050253
Cortisone	Cortisone Acetate Tab 25 MG	22 10 00 15 10 03 10	00615050263
Cortisone	Cortisone Acetate Tab 25 MG	22 10 00 15 10 03 10	00615050265
Cortisone	Cortisone Acetate Tab 25 MG	22 10 00 15 10 03 10	00677004601
Cortisone	Cortisone Acetate Tab 25 MG	22 10 00 15 10 03 10	00719124610
Cortisone	Cortisone Acetate Tab 25 MG	22 10 00 15 10 03 10	00781163001
Cortisone	Cortisone Acetate Tab 25 MG	22 10 00 15 10 03 10	00814204014
Cortisone	Cortisone Acetate Tab 25 MG	22 10 00 15 10 03 10	00839508406
Cortisone	Cortisone Acetate Tab 25 MG	22 10 00 15 10 03 10	00904204360
Cortisone	Cortisone Acetate Tab 25 MG	22 10 00 15 10 03 10	17236013801
Cortisone	Cortisone Acetate Tab 25 MG	22 10 00 15 10 03 10	51432011403
Cortisone	Cortisone Acetate Tab 25 MG	22 10 00 15 10 03 10	52544079801
Cortisone	Cortisone Acetate Tab 25 MG	22 10 00 15 10 03 10	54274016110
Cortisone	Cortisone Acetate Tab 25 MG	22 10 00 15 10 03 10	60429001501
Cortisone	Cortisone Acetate Tab 5 MG	22 10 00 15 10 03 03	00009001501
Deflazacort	Deflazacort Susp 22.75 MG/ML	22 10 00 17 00 18 30	42998050521
Deflazacort	Deflazacort Susp 22.75 MG/ML	22 10 00 17 00 18 30	52856050521
Deflazacort	Deflazacort Tab 18 MG	22 10 00 17 00 03 50	42998050203
Deflazacort	Deflazacort Tab 18 MG	22 10 00 17 00 03 50	52856050203
Deflazacort	Deflazacort Tab 30 MG	22 10 00 17 00 03 60	42998050303
Deflazacort	Deflazacort Tab 30 MG	22 10 00 17 00 03 60	52856050303
Deflazacort	Deflazacort Tab 36 MG	22 10 00 17 00 03 65	42998050403
Deflazacort	Deflazacort Tab 36 MG	22 10 00 17 00 03 65	52856050403
Deflazacort	Deflazacort Tab 6 MG	22 10 00 17 00 03 40	42998050101
Deflazacort	Deflazacort Tab 6 MG	22 10 00 17 00 03 40	52856050101
Desoxycorticosterone	Desoxycorticosterone Acetate Pellets 125 MG	22 20 00 10 10 89 20	00083223201
Desoxycorticosterone	Desoxycorticosterone Pivalate Ini Susp 25 MG/ML	22 20 00 20 20 18 05	00083222201
Dexamethasone	*Dexamethasone Ini 10 MG/ML & Bupiv 0.5% & Lido 1% Kit**	22 10 99 03 20 64 30	53225421001
Dexamethasone	*Dexamethasone PF Ini 10 MG/ML & Bupiv 0.25% & Lido 1% Kit**	22 10 99 03 20 64 20	45861013101
Dexamethasone	*Dexamethasone PF Ini 10 MG/ML & Bupiv 0.25% & Lido 1% Kit**	22 10 99 03 20 64 20	63187034801
Dexamethasone	*Dexamethasone PF Ini 10 MG/ML & Bupiv 0.25% & Lido 1% Kit**	22 10 99 03 20 64 20	76420076901
Dexamethasone	*Dexamethasone Sod Phos Ini 10 MG/ML & Anesth Snrv Kit***	22 10 99 02 57 64 20	76420027001
Dexamethasone	*Dexamethasone Sod Phos PF Ini 10 MG/ML & Bupiv 0.25% Kit***	22 10 99 02 58 64 20	45861013401
Dexamethasone	*Dexamethasone Sod Phos PF Ini 10 MG/ML & Bupiv 0.25% Kit***	22 10 99 02 58 64 20	76420081001
Dexamethasone	*Dexamethasone Sod Phos PF Ini 10 MG/ML & Lidocaine 1% Kit**	22 10 99 02 60 64 20	45861013201
Dexamethasone	*Dexamethasone Sod Phos PF Ini 10 MG/ML & Lidocaine 1% Kit**	22 10 99 02 60 64 20	76420076701
Dexamethasone	*Dexamethasone Sodium Phosphate Ini 10 MG/ML Kit***	22 10 00 20 20 64 25	53225366001
Dexamethasone	*Dexamethasone Sodium Phosphate PF Ini 10 MG/ML Kit***	22 10 00 20 20 64 20	45861013301
Dexamethasone	*Dexamethasone Sodium Phosphate PF Ini 10 MG/ML Kit***	22 10 00 20 20 64 20	69677007102
Dexamethasone	*Dexamethasone Sodium Phosphate PF Ini 10 MG/ML Kit***	22 10 00 20 20 64 20	70112055502
Dexamethasone	*Dexamethasone Sodium Phosphate PF Ini 10 MG/ML Kit***	22 10 00 20 20 64 20	76420076601
Dexamethasone	Dexamethasone Acetate & Sod Phosphate Ini Susp 8-4 MG/ML	22 10 99 02 15 18 30	62295305706
Dexamethasone	Dexamethasone Acetate & Sod Phosphate Ini Susp 8-4 MG/ML	22 10 99 02 15 18 30	71283062201
Dexamethasone	Dexamethasone Acetate Ini Susp 16 MG/5ML	22 10 00 20 10 18 40	00456109705
Dexamethasone	Dexamethasone Acetate Ini Susp 16 MG/ML	22 10 00 20 10 18 15	00456109741
Dexamethasone	Dexamethasone Acetate Ini Susp 16 MG/ML	22 10 00 20 10 18 15	00785908005
Dexamethasone	Dexamethasone Acetate Ini Susp 16 MG/ML	22 10 00 20 10 18 15	54569394000
Dexamethasone	Dexamethasone Acetate Ini Susp 16 MG/ML	22 10 00 20 10 18 15	54569395300
Dexamethasone	Dexamethasone Acetate Ini Susp 16 MG/ML	22 10 00 20 10 18 15	62295305807
Dexamethasone	Dexamethasone Acetate Ini Susp 16 MG/ML	22 10 00 20 10 18 15	71283063001
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	00006764401
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	00006764403
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	00063310414
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	00131102604
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	00144316313
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	00182092862
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	00191012352
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	00223739005
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	00259032805
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	00304120755
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	00314089775
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	00349009275
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	00364669953
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	00385106375
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	00402009205
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	00418409131
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	00456107505
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	00463110405
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	00524008115
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	00536416365
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	00537614275
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	00551011005
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	00588534475
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	00677082220
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	00719311986
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	00779755260
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	00781300875
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	00785804505
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	00814235538
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	00839610925
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	00904090605
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	17236003695
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	25332001105
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	30727036085
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	43797011311
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	44437009205
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	45985055505
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	47202401005
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	47649010603
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	47679076020
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	49072015505
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	49072015510
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	51432012709
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	52349010405
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	52604009205
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	53638009205
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	54274074009
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	54569142300
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	54569155400
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	54569180801
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	54569192200
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	54868397700
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	58441764403
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	62295305907
Dexamethasone	Dexamethasone Acetate Ini Susp 8 MG/ML	22 10 00 20 10 18 05	71283062901
Dexamethasone	Dexamethasone Acetate Powder	22 10 00 20 10 29 00	00574040905
Dexamethasone	Dexamethasone Acetate Powder	22 10 00 20 10 29 00	00574040910
Dexamethasone	Dexamethasone Acetate Powder	22 10 00 20 10 29 00	17317187002
Dexamethasone	Dexamethasone Acetate Powder	22 10 00 20 10 29 00	17317187008
Dexamethasone	Dexamethasone Acetate Powder	22 10 00 20 10 29 00	38779007001

































































































Triamcinolone	Triamcinolone Tab 4 MG	22	10	00	50	00	03	15	00228245410
Triamcinolone	Triamcinolone Tab 4 MG	22	10	00	50	00	03	15	00302728001
Triamcinolone	Triamcinolone Tab 4 MG	22	10	00	50	00	03	15	00302728005
Triamcinolone	Triamcinolone Tab 4 MG	22	10	00	50	00	03	15	00304028101
Triamcinolone	Triamcinolone Tab 4 MG	22	10	00	50	00	03	15	00304028105
Triamcinolone	Triamcinolone Tab 4 MG	22	10	00	50	00	03	15	00349236501
Triamcinolone	Triamcinolone Tab 4 MG	22	10	00	50	00	03	15	00349236510
Triamcinolone	Triamcinolone Tab 4 MG	22	10	00	50	00	03	15	00364035201
Triamcinolone	Triamcinolone Tab 4 MG	22	10	00	50	00	03	15	00364035205
Triamcinolone	Triamcinolone Tab 4 MG	22	10	00	50	00	03	15	00405504201
Triamcinolone	Triamcinolone Tab 4 MG	22	10	00	50	00	03	15	00469512430
Triamcinolone	Triamcinolone Tab 4 MG	22	10	00	50	00	03	15	00469512471
Triamcinolone	Triamcinolone Tab 4 MG	22	10	00	50	00	03	15	00536471701
Triamcinolone	Triamcinolone Tab 4 MG	22	10	00	50	00	03	15	00536471705
Triamcinolone	Triamcinolone Tab 4 MG	22	10	00	50	00	03	15	00537602101
Triamcinolone	Triamcinolone Tab 4 MG	22	10	00	50	00	03	15	00537602105
Triamcinolone	Triamcinolone Tab 4 MG	22	10	00	50	00	03	15	00580035701
Triamcinolone	Triamcinolone Tab 4 MG	22	10	00	50	00	03	15	00591538801
Triamcinolone	Triamcinolone Tab 4 MG	22	10	00	50	00	03	15	00591538803
Triamcinolone	Triamcinolone Tab 4 MG	22	10	00	50	00	03	15	00591538804
Triamcinolone	Triamcinolone Tab 4 MG	22	10	00	50	00	03	15	00615161401
Triamcinolone	Triamcinolone Tab 4 MG	22	10	00	50	00	03	15	00677042601
Triamcinolone	Triamcinolone Tab 4 MG	22	10	00	50	00	03	15	00781167001
Triamcinolone	Triamcinolone Tab 4 MG	22	10	00	50	00	03	15	00783216709
Triamcinolone	Triamcinolone Tab 4 MG	22	10	00	50	00	03	15	00814800014
Triamcinolone	Triamcinolone Tab 4 MG	22	10	00	50	00	03	15	00814800028
Triamcinolone	Triamcinolone Tab 4 MG	22	10	00	50	00	03	15	00839500906
Triamcinolone	Triamcinolone Tab 4 MG	22	10	00	50	00	03	15	00904088460
Triamcinolone	Triamcinolone Tab 4 MG	22	10	00	50	00	03	15	51432046403
Triamcinolone	Triamcinolone Tab 4 MG	22	10	00	50	00	03	15	51728002701
Triamcinolone	Triamcinolone Tab 4 MG	22	10	00	50	00	03	15	51728083316
Triamcinolone	Triamcinolone Tab 4 MG	22	10	00	50	00	03	15	52446047621
Triamcinolone	Triamcinolone Tab 4 MG	22	10	00	50	00	03	15	54274037310
Triamcinolone	Triamcinolone Tab 4 MG	22	10	00	50	00	03	15	57317060010
Triamcinolone	Triamcinolone Tab 4 MG	22	10	00	50	00	03	15	57317060030
Triamcinolone	Triamcinolone Tab 4 MG	22	10	00	50	00	03	15	58729045435
Triamcinolone	Triamcinolone Tab 4 MG Dose Pack	22	10	00	50	00	64	05	00254593009
Triamcinolone	Triamcinolone Tab 4 MG Dose Pack	22	10	00	50	00	64	05	00469512316
Triamcinolone	Triamcinolone Tab 4 MG Dose Pack	22	10	00	50	00	64	05	00603617014
Triamcinolone	Triamcinolone Tab 4 MG Dose Pack	22	10	00	50	00	64	05	00615052726
Triamcinolone	Triamcinolone Tab 4 MG Dose Pack	22	10	00	50	00	64	05	00904088444
Triamcinolone	Triamcinolone Tab 4 MG Dose Pack	22	10	00	50	00	64	05	54274046916
Triamcinolone	Triamcinolone Tab 4 MG Dose Pack	22	10	00	50	00	64	05	54569273500
Triamcinolone	Triamcinolone Tab 4 MG Dose Pack	22	10	00	50	00	64	05	57317060016
Triamcinolone	Triamcinolone Tab 4 MG Dose Pack	22	10	00	50	00	64	05	60904045435
Triamcinolone	Triamcinolone Tab 8 MG	22	10	00	50	00	03	20	00003051840
Triamcinolone	Triamcinolone Tab 8 MG	22	10	00	50	00	03	20	00005444418
Triamcinolone	Triamcinolone Tab 8 MG	22	10	00	50	00	03	20	00469512550
Triamcinolone	Triamcinolone Tab 8 MG	22	10	00	50	00	03	20	57317060350

GPI: Generic Product Identifier; NDC: National Drug Code; PNH: paroxysmal nocturnal hemoglobinuria

**Supplemental Table 7. HCPCS Codes for Other PNH-Related Treatments of Interest**

Treatment		Description	Code
Anticoagulants		Warfarin or another fda approved oral anticoagulant is prescribed	G8967
		Patient documented to have been prescribed an anticoagulant at discharge	G8225
		Injection, heparin sodium, (heparin lock flush), per 10 units	J1642
		Injection, heparin sodium, per 1000 units	J1644
		Injection, dalteparin sodium, per 2500 iu	J1645
		Injection, enoxaparin sodium, 10 mg	J1650
		Injection, tinzaparin sodium, 1000 iu	J1655
		Injection, fondaparinux sodium, 0.5 mg	J1652
		Injection, bivalirudin, 1 mg	J0583
		Injection, lepirudin, 50 mg	J1945
		Injection, argatroban, per 5 mg	C9121
		Injection, argatroban, 1 mg (for non-esrd use)	J0883
		Home infusion therapy, continuous anticoagulant infusion therapy (e.g. heparin), administrative services, professional pharmacy services, care coordination and all necessary supplies and equipment (drugs and nursing visits coded separately), per diem	S9336
		Home therapy; intermittent anticoagulant injection therapy (e.g. heparin); administrative services, professional pharmacy services, care coordination, and all necessary supplies and equipment (drugs and nursing visits coded separately), per diem (do not use this code for flushing of infusion devices with heparin to maintain patency)	S9372
Immunosuppressants	Anti-thymocyte globulin (ATG)	Lymphocyte immune globulin, antithymocyte globulin, equine, parenteral, 250 mg	J7504
		Lymphocyte immune globulin, antithymocyte globulin, rabbit, parenteral, 25 mg	J7511
	Azathioprine	Azathioprine, oral, 50 mg	J7500
		Azathioprine, parenteral, 100 mg	J7501
	Cyclosporine	Cyclosporine, oral, 25 mg	J7515
		Cyclosporine, oral, 100 mg	J7502
		Cyclosporine, parenteral, 250 mg	J7516
Others	Immunosuppressive drug, not otherwise classified	J7599	
Iron therapy		Injection, Ferric Carboxymaltose, 1 mg	J1439
		Injection, Iron Dextran, 50 mg	J1750
		Injection, Iron Sucrose, 1 mg (Venofer®)	J1756
		Injection, Sodium Ferric Gluconate Complex in Sucrose Injection, 12.5 mg (Ferrolecit®)	J2916
		Injection, Ferumoxytol, for treatment of Iron Deficiency Anemia, 1 mg (Non-ESRD use)	Q0138
		Injection, Ferumoxytol, for treatment of Iron Deficiency Anemia, 1 mg (For ESRD on dialysis)	Q0139

ATG: Anti-thymocyte globulin; HCPCS: Healthcare Commons Procedure Coding System; PNH: paroxysmal nocturnal hemoglobinuria

**Supplemental Table 8. GPI Codes for Other PNH-Related Treatments of Interest**

<b>Treatment</b>	<b>Description</b>	<b>Code</b>
Androgen therapy	Androgens	23 10 00
	Androgen Combinations	23 10 99
	Anabolic Steroids	23 20 00
Anticoagulants	Anticoagulants	83
Iron chelation therapy	Deferasirox	93 10 00 25 00
Iron therapy	Iron Supplements	82 30 00
Immunosuppressants	Lymphocyte immune globulin, anti-thymocyte globulin	99 40 25 40
	Azathioprine	99 40 60 10 00
	Azathioprine Sodium	99 40 60 10 10
	Cyclosporine	99 40 20 20
	Cyclosporine (Bulk)	96 46 88 10 00

GPI: Generic Product Identifier; PNH: paroxysmal nocturnal hemoglobinuria

**Supplemental Table 9. CPT, HCPCS, and ICD-9/10-PCS Codes for Blood Transfusions**

Code type	Description	Code	
CPT	Transfusion, blood or blood components	36430	
	Blood (whole), for transfusion, per unit	P9010	
	Blood, split unit	P9011	
	Cryoprecipitate, each unit	P9012	
	Red blood cells, leukocytes reduced, each unit	P9016	
	Fresh frozen plasma (single donor), frozen within 8 hours of collection, each unit	P9017	
	Red blood cells, each unit	P9021	
	Red blood cells, washed, each unit	P9022	
	Plasma, pooled multiple donor, solvent/detergent treated, frozen, each unit	P9023	
	Red blood cells, irradiated, each unit	P9038	
	Red blood cells, deglycerolized, each unit	P9039	
	HCPCS	Red blood cells, leukocytes reduced, irradiated, each unit	P9040
		Infusion, plasma protein fraction (human), 5%, 50 ml	P9043
Plasma, cryoprecipitate reduced, each unit		P9044	
Infusion, plasma protein fraction (human), 5%, 250 ml		P9048	
Whole blood or red blood cells, leukocytes reduced, CMV-negative, each unit		P9051	
Whole blood or red blood cells, leukocytes reduced, frozen, deglycerol, washed, each unit		P9054	
Whole blood, leukocytes reduced, irradiated, each unit		P9056	
Red blood cells, frozen/deglycerolized/washed, leukocytes reduced, irradiated, each unit		P9057	
Red blood cells, leukocytes reduced, CMV-negative, irradiated, each unit		P9058	
Fresh frozen plasma between 8-24 hours of collection, each unit		P9059	
Fresh frozen plasma, donor retested, each unit		P9060	
ICD-10-PCS		Transfusion of nonautologous frozen plasma into peripheral vein, percutaneous approach	30233K1
		Transfusion of nonautologous fresh plasma into peripheral vein, percutaneous approach	30233L1
	Transfusion of nonautologous plasma cryoprecipitate into peripheral vein, percutaneous approach	30233M1	
	Transfusion of nonautologous red blood cells into peripheral vein, percutaneous approach	30233N1	
ICD-9-PCS	Transfusion of nonautologous frozen red cells into peripheral vein, percutaneous approach	30233P1	
	Transfusion of packed cells	99.04	
	Transfusion of other serum	99.07	

CPT: Current Procedural Terminology; HCPCS: Healthcare Commons Procedure Coding System; ICS-10-PCS: International Classification of Diseases, 10th Revision, Procedure Coding System; PNH: paroxysmal nocturnal hemoglobinuria



**Supplemental Table 10. ICD-9/10-CM Codes for Elixhauser Comorbidities**

Condition	ICD-9-CM Diagnosis Codes	ICD-10-CM Diagnosis Codes
Alcohol abuse	265.2, 291.1–291.3, 291.5–291.9, 303.3, 303.9, 305.0, 375.5, 425.5, 535.3, 571.0–571.3, 980, V11.3	F10.x, E52.x, G62.1, I42.6, K29.2x, K70.0, K70.3x, K70.9, T51.x, Z50.2, Z71.4, Z72.1
Blood loss anemia	280	D50.0
Cardiac arrhythmias	426.0, 426.10, 426.12, 426.13, 426.7, 426.9, 427–427.4, 427.6–427.9, 785.0, 996.01, 996.04, V50.0, V53.3	A52.0x, I05.x–I08.x, I09.1, I09.8x, I34.x–I39, Q23.0–Q23.3, Z95.2–Z95.4
Chronic peptic ulcer disease (includes bleeding only if obstruction is also present)	531.7, 531.9, 532.7, 532.9, 533.7, 533.9, 534.7, 534.9	K25.7, K25.9, K26.7, K26.9, K27.7, K27.9, K28.7, K28.9
Chronic pulmonary disease	490–492, 493, 494–505, 506.4,	I27.8x, I27.9, J40–J47, J60–J67, J68.4, J70.1, J70.3
Coagulation deficiency	286, 287.1, 287.3–287.5	D65–D68.x, D69.1, D69.3–D69.6
Congestive heart failure	398.91, 402.01, 402.11, 402.91, 404.01, 404.03, 404.11, 404.13, 404.91, 404.93, 425.4–425.9, 428	I09.9, I11.0, I13.0, I13.2, I25.5, I42.0, I42.5–I42.9, I43, I50.x, P29.0
Deficiency anemias	280.1–280.9, 281	D50.8, D50.9, D51.x–D53.x
Depression	296.2, 296.3, 296.5, 300.4, 309, 311	F20.4, F31.3x–F31.5, F32, F33, F34.1, F41.2, F43.2x
Diabetes with chronic complications	250.4–250.9, 775.1	E10.2x–E10.5x, E10.7x, E11.2x–E11.5x, E11.7x, E12.2x–E12.5x, E12.7x, E13.2x–E13.5x, E13.7x, E14.2x–E14.5x, E14.7x
Diabetes without chronic complications	250.00–250.3	E10.0x, E10.1x, E10.6x, E10.8, E10.9, E11.0x, E11.1x, E11.6x, E11.8, E11.9, E12.0x, E12.1x, E12.6x, E12.8, E12.9, E13.0x, E13.1x, E13.6x, E13.8, E13.9, E14.0x, E14.1x, E14.6x, E14.8, E14.9
Drug abuse	292.0, 304, 305.2–305.9, V65.42	F11.x–F16.x, F18.x, F19.x, Z71.5x, Z72.2
Fluid and electrolyte disorders	253.6, 276	E22.2, E86.x, E87.x
HIV/AIDS	042–044	B20.x–B22.x, B24
Hypertension (without complications)	401.1	I10
Hypertension (with complications)	402–405	I11.x–I13.x, I15.x
Hypothyroidism	240.9, 434, 244, 246.1, 246.8	E00.x–E03.x, E89.0
Liver disease	070.22, 070.23, 070.33, 070.44, 070.54, 070.6, 070.9, 456.0–456.2, 570, 571, 572.2–572.8, 573.3, 573.4, 573.8, 573.9, V42.7	B18.x, I85.x, I86.4, I98.2, K70.x, K71.1x, K71.3–K71.5x, K71.7, K72.x–K74x, K76.0, K76.2–K76.9, Z94.4
Lymphoma	200–202, 203.0, 238.6	C81.x–C85.x, C88.x, C96.x, C90.0, C90.2x
Metastatic cancer	196–199	C77.x–C80.x
Obesity	278	E66.x
Other neurological disorders	330–331, 332.0, 333.4, 333.5, 334–335, 340, 341.1–341.9, 345, 347, 780.3, 784.3	G10–G13.x, G20–G22, G25.4, G25.5, G31.2, G31.8x, G31.9, G32.x, G35–G37.x, G40.x, G41.x, G93.1, G93.4x, R47.0x, R56.x
Paralysis	334.1, 342, 343, 344.0–344.6, 344.9	G04.1, G11.4, G80.1, G80.2, G81.x, G82.x, G83.0–G83.4, G83.9
Peripheral vascular disease	093.0, 437.3, 440, 441, 443.1–443.9, 447.1, 557.1, 557.9, V43.4	I70.x, I81, I73.1, I73.8, I73.9, I77.1, I79.0, I79.2, K55.1, K55.8, K55.9, Z95.8x, Z95.9
Psychoses	293.8, 295, 296.04, 296.14, 296.44, 296.54, 297, 298	F20.x, F22–F25.x, F28, F29, F30.2, F31.2, F31.5
Pulmonary circulation disorders	415.0, 415.1, 416, 417.0, 417.8, 417.9	I26.x, I27.x, I28.0, I28.8, I28.9
Renal failure	403.01, 403.11, 403.91, 404.02, 404.03, 404.12, 404.13, 404.92, 404.93, 585, 586, 588, V42.0, V45.1, V56	I12.0, I13.1x, N18.x, N19, N25.0, Z49.0x–Z49.2, Z94.0, Z99.2
Rheumatoid arthritis/collagen vascular diseases	446, 701.0, 710.0–710.4, 710.8, 710.9, 711.2, 714, 719.3, 720, 725, 728.5, 728.89, 729.30	L94.0, L94.1, L94.3, M05.x, M06.x, M08.x, M12.x, M30.x, M31.x–M31.3, M32.x–M35.x, M45.x, M46.x
Solid tumor without metastasis	140–172, 174–195	C00.x–C26.x, C30.x–C34.x, C37.x–C41.x, C43.x, C45.x–C58.x, C60.x–C76.x, C97
Valvular disease	093.2, 394–397, 397.9, 424, 746.3–746.6, V42.2, V43.3	A52.0x, I05.x–I08.x, I09.1, I09.8x, I34.x–I39, Q23.0–Q23.3, Z95.2–Z95.4
Weight loss	260–263, 783.2, 799.4	E40–E46, R63.4, R64

AIDS: acquired immune deficiency syndrome; HIV: human immunodeficiency viruses; ICD-10-CM: International Classification of Diseases, 10th Revision, Clinical Modification

**Source:**

Quan H, Sundararajan V, Halfon P, et al. Coding algorithms for defining comorbidities in ICD-9-CM and ICD-10 administrative data. *Med Care*. 2005;43(11):1130-1139. doi:10.1097/01.mlr.0000182534.19832.83.