

CLINICAL MEDICAL POLICY	
Policy Name:	Biomarkers Overview (L35062)
Policy Number:	MP-076-MC-PA
Responsible Department(s):	Medical Management
Provider Notice/Issue Date:	12/01/2024; 12/01/2023; 12/01/2022; 11/19/2021; 11/23/2020; 12/09/2019; 12/15/2018
Effective Date:	01/01/2025; 01/01/2024; 01/01/2023; 12/20/2021; 12/21/2020; 12/09/2019; 12/15/2018
Next Annual Review:	10/2025
Revision Date:	10/16/2024; 10/18/2023; 10/19/2022; 10/20/2021; 10/21/2020; 10/16/2019
Products:	Pennsylvania Medicare Assured
Application:	All participating and nonparticipating hospitals and providers
Page Number(s):	1 of 16

Policy History

Date	Activity
01/01/2025	Provider Effective date
10/16/2024	QI/UM Committee review
10/16/2024	Annual Review: No changes to clinical criteria. Updated CMS hyperlinks.
01/01/2024	Provider Effective date
10/18/2023	QI/UM Committee review
10/18/2023	Annual Review: No changes to clinical criteria. Updated CMS hyperlinks. The
	following codes have been added to the 'ICD-10-CM Codes that Support Medical
	Necessity' section under 'Group 2 Codes': M05.00, M05.019, M05.029, M05.039,
	M05.049, M05.059, M05.069, M05.079, M05.10, M05.119, M05.129, M05.139,
	M05.149, M05.159, M05.169, M05.179, M05.20, M05.219, M05.229, M05.239,
	M05.249, M05.259, M05.269, M05.279, M05.30, M05.319, M05.329, M05.339,
	M05.349, M05.359, M05.369, M05.379, M05.40, M05.419, M05.429, M05.439,
	M05.449, M05.459, M05.469, M05.479, M05.50, M05.519, M05.529, M05.539,
	M05.549, M05.559, M05.569, M05.579, M05.60, M05.619, M05.629, M05.639,
	M05.649, M05.659, M05.669, M05.679, M05.70, M05.719, M05.729, M05.739,
	M05.749, M05.759, M05.769, M05.779, M05.9, M06.00, M06.019, M06.029,
	M06.039, M06.049, M06.059, M06.069, M06.079, M06.20, M06.219, M06.229,
	M06.239, M06.249, M06.259, M06.269, M06.279, M06.30, M06.319, M06.329,
	M06.339, M06.349, M06.359, M06.369, M06.379, and M06.9.

01/01/2023	Provider Effective date
10/19/2022	QI/UM Committee review
10/19/2022	Annual Review: No changes to clinical criteria. Updated CMS hyperlinks and
10/19/2022	'Reference Sources' sections. The following CPT codes have been removed from the
	'CPT/HCPCS Codes' Group 1 Codes: 81225, 81226, 81227, 81355, 81374, 81377,
	81381 and 81383. The 'ICD-10-CM Codes that Support Medical Necessity' section has
	been revised to remove Group 1 Codes for 81225 and Group 2 Codes for 81226. The
	remaining Groups were renumbered accordingly. Removed duplicated ICD-10 code
42/22/2224	182.91.
12/20/2021	Provider effective date
10/20/2021	QI/UM Committee review
10/20/2021	Annual Review: Updated CMS hyperlinks, added 'Place of Service' and 'Related
	Policies' to the Procedures section. Updated Reference Sources section. Added the
	following CPT codes to Group 1: 81227, 81355. Removed Group 2 and Group 3 CPT
	codes according to CMS updates. Added the following ICD-10 codes to the Group 3
	section: ICD-10 Codes: I82.91, I81, I82.0, I82.1, I82.210, I82.211, I82.220, I82.221,
	182.290, 182.291, 182.3, 182.401,182.402, 182.403, 182.411, 182.412, 182.413, 182.421,
	182.422, 182.423, 182.431, 182.432, 182.433, 182.441, 182.442, 182.443, 182.451, 182.452,
	182.453, 182.461, 182.462, 182.463, 182.491, 182.492, 182.493, 182.4Y1, 182.4Y2, 182.4Y3,
	182.4Z1, 182.4Z2, 182.4Z3, 182.501, 182.502, 182.503, 182.511, 182.512, 182.513, 182.521,
	182.522, 182.523, 182.531, 182.532, 182.533, 182.541, 182.542, 182.543, 182.551, 182.552,
	182.553, 182.561, 182.562, 182.563, 182.591, 182.592, 182.593, 182.5Y1, 182.5Y2, 182.5Y3,
	182.5Z1, 182.5Z2, 182.5Z3, 182.601, 182.602, 182.603, 182.611, 182.612, 182.613, 182.621,
	182.622, 182.623, 182.701, 182.702, 182.703, 182.711, 182.712, 182.713, 182.721, 182.722,
	182.723, 182.A11, 182.A12, 182.A13, 182.A21, 182.A22, 182.A23, 182.B11, 182.B12,
	I82.B13, I82.B21, I82.B22, I82.B23, I82.C11I82.C12, I82.C13, I82.C21, I82.C22,
	I82.C23,I82.811,I82.812, I82.813, I82.890, I82.91.
09/17/2018	Initial policy developed

Disclaimer

Highmark Wholecare[™] medical policy is intended to serve only as a general reference resource regarding coverage for the services described. This policy does not constitute medical advice and is not intended to govern or otherwise influence medical decisions.

Policy Statement

Highmark Wholecare[™] may provide coverage under the medical-surgical benefits of the Company's Medicare products for medically necessary biomarkers.

This policy is designed to address medical necessity guidelines that are appropriate for the majority of individuals with a particular disease, illness or condition. Each person's unique clinical circumstances warrant individual consideration, based upon review of applicable medical records.

Procedures

- 1. Please review the specific National Coverage Determination (NCD), Local Coverage Determination (LCD), and/or Local Coverage Article (LCA) information, as well as other CMS sources, using the links below.
- Post-payment Audit Statement The medical record must include documentation that reflects the medical necessity criteria and is subject to audit by Highmark Wholecare[™] at any time pursuant to the terms of your provider agreement.
- 3. Place of Service Please refer to the CMS guidelines for the proper place of service for biomarkers testing.
- 4. Related Policies
 - MP-035-MC-PA Testing for Genetic Disease
 - MP-036-MC-PA Chromosomal Microarray Analysis: Comparative Genomic Hybridization (CGH) and Single Nucleotide Polymorphism (SNP) (L35062)
 - MP-044-MC-PA Pharmacogenomic Testing for Warfarin Response (NCD 90.1)

Coverage Determination and Links

Highmark Wholecare^{s™} follows the coverage determinations made by CMS as outlined in either the NCD or state-specific LCD/LCA.

CMS Link:

<u>CMS Website</u>

NCD/LCD Links:

- There are no current NCDs related to this topic.
- Local Coverage Determination (LCD) for Biomarkers Overview (L35062)
- Local Coverage Determination (LCD) for Biomarkers for Oncology (L35396)

Article Link:

• Local Coverage Article (LCA) for Billing and Coding: Biomarkers Overview (A56541)

Reference Sources

The Centers for Medicare and Medicaid Services (CMS). Local Coverage Determination (LCD) Biomarkers Overview (L35062). Original Effective date October 1, 2015. Revision effective date December 12, 2021. Accessed on October 1, 2024.

The Centers for Medicare and Medicaid Services (CMS). Local Coverage Determination (LCD) Biomarkers for Oncology (L25396). Original Effective date October 1, 2015. Revision Effective date December 13, 2020. Accessed on October 1, 2024.

The Centers for Medicare and Medicaid Services (CMS). Local Coverage Article (LCA) Billing and Coding: Biomarkers Overview (A56541). Original Effective date May 30, 2019. Revision Effective date January 1, 2024. Accessed on October 1, 2024.

Coding Requirements

Procedure Codes

CPT Code	Description
81201	APC (adenomatous polyposis coli) (eg, familial adenomatosis polyposis [FAP], attenuated FAP) gene analysis; full gene sequence
81202	APC (adenomatous polyposis coli) (eg, familial adenomatosis polyposis [FAP], attenuated FAP) gene analysis; known familial variants
81203	APC (adenomatous polyposis coli) (eg, familial adenomatosis polyposis [FAP], attenuated FAP) gene analysis; duplication/deletion variants
81240	F2 (prothrombin, coagulation factor II) (eg, hereditary hypercoagulability) gene analysis, 20210G>A variant
81241	F5 (coagulation factor V) (eg, hereditary hypercoagulability) gene analysis, Leiden variant
81242	FANCC (Fanconi anemia, complementation group C) (eg, Fanconi anemia, type C) gene analysis, common variant (eg, IVS4+4A>T)
81250	G6PC (glucose-6-phosphatase, catalytic subunit) (eg, Glycogen storage disease, type 1a, von Gierke disease) gene analysis, common variants (eg, R83C, Q347X)
81251	GBA (glucosidase, beta, acid) (eg, Gaucher disease) gene analysis, common variants (eg, N370S, 84GG, L444P, IVS2+1G>A)
81252	GJB2 (gap junction protein, beta 2, 26kDa, connexin 26) (eg, nonsyndromic hearing loss) gene analysis; full gene sequence
81253	GJB2 (gap junction protein, beta 2, 26kDa, connexin 26) (eg, nonsyndromic hearing loss) gene analysis; known familial variants
81254	GJB6 (gap junction protein, beta 6, 30kDa, connexin 30) (eg, nonsyndromic hearing loss) gene analysis, common variants (eg, 309kb [del(GJB6-D13S1830)] and 232kb [del(GJB6-D13S1854)])
81255	HEXA (hexosaminidase A [alpha polypeptide]) (eg, Tay-Sachs disease) gene analysis, common variants (eg, 1278insTATC, 1421+1G>C, G269S)
81256	HFE (hemochromatosis) (eg, hereditary hemochromatosis) gene analysis, common variants (eg, C282Y, H63D)
81257	HBA1/HBA2 (alpha globin 1 and alpha globin 2) (eg, alpha thalassemia, Hb Bart hydrops fetalis syndrome, HbH disease), gene analysis; common deletions or variant (eg, Southeast Asian, Thai, Filipino, Mediterranean, alpha3.7, alpha4.2, alpha20.5, Constant Spring)
81258	HBA1/HBA2 (alpha globin 1 and alpha globin 2) (eg, alpha thalassemia, Hb Bart hydrops fetalis syndrome, HbH disease), gene analysis; known familial variant
81259	HBA1/HBA2 (alpha globin 1 and alpha globin 2) (eg, alpha thalassemia, Hb Bart hydrops fetalis syndrome, HbH disease), gene analysis; full gene sequence
81265	Comparative analysis using Short Tandem Repeat (STR) markers; patient and comparative specimen (eg, pre-transplant recipient and donor germline testing, post-transplant non-hematopoietic recipient germline [eg, buccal swab or other germline

	tissue sample] and donor testing, twin zygosity testing, or maternal cell contamination of fetal cells)
81266	Comparative analysis using Short Tandem Repeat (STR) markers; each additional specimen (eg, additional cord blood donor, additional fetal samples from different cultures, or additional zygosity in multiple birth pregnancies) (List separately in addition to code for primary procedure)
81267	Chimerism (engraftment) analysis, post transplantation specimen (eg, hematopoietic stem cell), includes comparison to previously performed baseline analyses; without cell selection
81268	Chimerism (engraftment) analysis, post transplantation specimen (eg, hematopoietic stem cell), includes comparison to previously performed baseline analyses; with cell selection (eg, CD3, CD33), each cell type
81269	HBA1/HBA2 (alpha globin 1 and alpha globin 2) (eg, alpha thalassemia, Hb Bart hydrops fetalis syndrome, HbH disease), gene analysis; duplication/deletion variants
81288	MLH1 (mutL homolog 1, colon cancer, nonpolyposis type 2) (eg, hereditary non- polyposis colorectal cancer, Lynch syndrome) gene analysis; promoter methylation analysis
81290	MCOLN1 (mucolipin 1) (eg, Mucolipidosis, type IV) gene analysis, common variants (eg, IVS3-2A>G, del6.4kb)
81295	MSH2 (mutS homolog 2, colon cancer, nonpolyposis type 1) (eg, hereditary non- polyposis colorectal cancer, Lynch syndrome) gene analysis; full sequence analysis
81296	MSH2 (mutS homolog 2, colon cancer, nonpolyposis type 1) (eg, hereditary non- polyposis colorectal cancer, Lynch syndrome) gene analysis; known familial variants
81297	MSH2 (mutS homolog 2, colon cancer, nonpolyposis type 1) (eg, hereditary non- polyposis colorectal cancer, Lynch syndrome) gene analysis; duplication/deletion variants
81298	MSH6 (mutS homolog 6 [E. coli]) (eg, hereditary non-polyposis colorectal cancer, Lynch syndrome) gene analysis; full sequence analysis
81299	MSH6 (mutS homolog 6 [E. coli]) (eg, hereditary non-polyposis colorectal cancer, Lynch syndrome) gene analysis; known familial variants
81300	MSH6 (mutS homolog 6 [E. coli]) (eg, hereditary non-polyposis colorectal cancer, Lynch syndrome) gene analysis; duplication/deletion variants
81317	PMS2 (postmeiotic segregation increased 2 [S. cerevisiae]) (eg, hereditary non-polyposis colorectal cancer, Lynch syndrome) gene analysis; full sequence analysis
81318	PMS2 (postmeiotic segregation increased 2 [S. cerevisiae]) (eg, hereditary non-polyposis colorectal cancer, Lynch syndrome) gene analysis; known familial variants
81319	PMS2 (postmeiotic segregation increased 2 [S. cerevisiae]) (eg, hereditary non-polyposis colorectal cancer, Lynch syndrome) gene analysis; duplication/deletion variants
81324	PMP22 (peripheral myelin protein 22) (eg, Charcot-Marie-Tooth, hereditary neuropathy with liability to pressure palsies) gene analysis; duplication/deletion analysis
81325	PMP22 (peripheral myelin protein 22) (eg, Charcot-Marie-Tooth, hereditary neuropathy with liability to pressure palsies) gene analysis; full sequence analysis
81326	PMP22 (peripheral myelin protein 22) (eg, Charcot-Marie-Tooth, hereditary neuropathy with liability to pressure palsies) gene analysis; known familial variant
81329	SMN1 (survival of motor neuron 1, telomeric) (eg, spinal muscular atrophy) gene analysis; dosage/deletion analysis (eg, carrier testing), includes SMN2 (survival of motor neuron 2, centromeric) analysis, if performed

81332	SERPINA1 (serpin peptidase inhibitor, clade A, alpha-1 antiproteinase, antitrypsin,
	member 1) (eg, alpha-1-antitrypsin deficiency), gene analysis, common variants (eg, *S
	and *Z)
81336	SMN1 (survival of motor neuron 1, telomeric) (eg, spinal muscular atrophy) gene
	analysis; full gene sequence
81337	SMN1 (survival of motor neuron 1, telomeric) (eg, spinal muscular atrophy) gene
	analysis; known familial sequence variant(s)
81370	HLA Class I and II typing, low resolution (eg, antigen equivalents); HLA-A, -B, -C, -
	DRB1/3/4/5, and -DQB1
81371	HLA Class I and II typing, low resolution (eg, antigen equivalents); HLA-A, -B, and -DRB1
	(eg, verification typing)
81372	HLA Class I typing, low resolution (eg, antigen equivalents); complete (ie, HLA-A, -B, and -
	C)
81373	HLA Class I typing, low resolution (eg, antigen equivalents); one locus (eg, HLA-A, -B, or -
	C), each
81375	HLA Class II typing, low resolution (eg, antigen equivalents); HLA-DRB1/3/4/5 and -DQB1
81376	HLA Class II typing, low resolution (eg, antigen equivalents); one locus (eg, HLA-DRB1, -
	DRB3/4/5, -DQB1, -DQA1, -DPB1, or -DPA1), each
81378	HLA Class I and II typing, high resolution (ie, alleles or allele groups), HLA-A, -B, -C, and -
	DRB1
81379	HLA Class I typing, high resolution (ie, alleles or allele groups); complete (ie, HLA-A, -B,
	and -C)
81380	HLA Class I typing, high resolution (ie, alleles or allele groups); one locus (eg, HLA-A, -B,
	or -C), each
81382	HLA Class II typing, high resolution (ie, alleles or allele groups); one locus (eg, HLA-DRB1,
	-DRB3/4/5, -DQB1, -DQA1, -DPB1, or -DPA1), each
81490	Autoimmune (rheumatoid arthritis), analysis of 12 biomarkers using immunoassays,
	utilizing serum, prognostic algorithm reported as a disease activity score
81595	Cardiology (heart transplant), mRNA, gene expression profiling by real-time quantitative
	PCR of 20 genes (11 content and 9 housekeeping), utilizing subfraction of peripheral
	blood, algorithm reported as a rejection risk score
0001U	Red blood cell antigen typing, DNA, human erythrocyte antigen gene analysis of 35
	antigens from 11 blood groups, utilizing whole blood, common RBC alleles reported

Diagnosis Codes

The following ICD-10-CM codes support medical necessity and provide coverage for CPT codes **81240** and **81241**:

ICD-10	Description
Code	
181	Portal vein thrombosis
182.0	Budd-Chiari syndrome
182.1	Thrombophlebitis migrans
182.210	Acute embolism and thrombosis of superior vena cava
182.211	Chronic embolism and thrombosis of superior vena cava
182.220	Acute embolism and thrombosis of inferior vena cava
182.221	Chronic embolism and thrombosis of inferior vena cava

182.290	Acute embolism and thrombosis of other thoracic veins
182.291	Chronic embolism and thrombosis of other thoracic veins
182.3	Embolism and thrombosis of renal vein
182.401	Acute embolism and thrombosis of unspecified deep veins of right lower extremity
182.402	Acute embolism and thrombosis of unspecified deep veins of left lower extremity
182.403	Acute embolism and thrombosis of unspecified deep veins of lower extremity, bilateral
182.411	Acute embolism and thrombosis of right femoral vein
182.412	Acute embolism and thrombosis of left femoral vein
182.413	Acute embolism and thrombosis of femoral vein, bilateral
182.421	Acute embolism and thrombosis of right iliac vein
182.422	Acute embolism and thrombosis of left iliac vein
182.423	Acute embolism and thrombosis of iliac vein, bilateral
182.431	Acute embolism and thrombosis of right popliteal vein
182.432	Acute embolism and thrombosis of left popliteal vein
182.433	Acute embolism and thrombosis of popliteal vein, bilateral
182.441	Acute embolism and thrombosis of right tibial vein
182.442	Acute embolism and thrombosis of left tibial vein
182.443	Acute embolism and thrombosis of tibial vein, bilateral
182.451	Acute embolism and thrombosis of right peroneal vein
182.452	Acute embolism and thrombosis of left peroneal vein
182.453	Acute embolism and thrombosis of peroneal vein, bilateral
182.461	Acute embolism and thrombosis of right calf muscular vein
182.462	Acute embolism and thrombosis of left calf muscular vein
182.463	Acute embolism and thrombosis of calf muscular vein, bilateral
182.491	Acute embolism and thrombosis of other specified deep vein of right lower extremity
182.492	Acute embolism and thrombosis of other specified deep vein of left lower extremity
182.493	Acute embolism and thrombosis of other specified deep vein of lower extremity, bilateral
182.4Y1	Acute embolism and thrombosis of unspecified deep veins of right proximal lower
	extremity
182.4Y2	Acute embolism and thrombosis of unspecified deep veins of left proximal lower extremity
I82.4Y3	Acute embolism and thrombosis of unspecified deep veins of proximal lower extremity, bilateral
182.4Z1	Acute embolism and thrombosis of unspecified deep veins of right distal lower extremity
182.4Z2	Acute embolism and thrombosis of unspecified deep veins of left distal lower extremity
182.4Z3	Acute embolism and thrombosis of unspecified deep veins of distal lower extremity,
	bilateral
182.501	Chronic embolism and thrombosis of unspecified deep veins of right lower extremity
182.502	Chronic embolism and thrombosis of unspecified deep veins of light lower extremity
182.503	Chronic embolism and thrombosis of unspecified deep veins of lower extremity, bilateral
182.511	Chronic embolism and thrombosis of right femoral vein
182.512	Chronic embolism and thrombosis of left femoral vein
182.513	Chronic embolism and thrombosis of femoral vein, bilateral
182.521	Chronic embolism and thrombosis of right iliac vein
182.522	Chronic embolism and thrombosis of left iliac vein
182.523	Chronic embolism and thrombosis of iliac vein, bilateral
182.531	Chronic embolism and thrombosis of right popliteal vein
182.532	Chronic embolism and thrombosis of left popliteal vein
182.533	Chronic embolism and thrombosis of popliteal vein, bilateral
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182.541 Chronic embolism and thrombosis of right tibial vein 182.542 Chronic embolism and thrombosis of left tibial vein 182.543 Chronic embolism and thrombosis of right peroneal vein 182.551 Chronic embolism and thrombosis of left peroneal vein 182.552 Chronic embolism and thrombosis of right peroneal vein 182.553 Chronic embolism and thrombosis of right calf muscular vein 182.561 Chronic embolism and thrombosis of left calf muscular vein 182.562 Chronic embolism and thrombosis of the specified deep vein of right lower extremity 182.563 Chronic embolism and thrombosis of other specified deep vein of left lower extremity 182.591 Chronic embolism and thrombosis of other specified deep vein of left lower extremity 182.592 Chronic embolism and thrombosis of unspecified deep vein of left proximal lower extremity 182.593 Chronic embolism and thrombosis of unspecified deep veins of right distal lower extremity 182.572 Chronic embolism and thrombosis of unspecified deep veins of right distal lower extremity 182.573 Chronic embolism and thrombosis of unspecified deep veins of right distal lower extremity 182.574 Chronic embolism and thrombosis of unspecified deep veins of right distal lower extremity 182.573 Chronic embolism and thrombosis of unspecifie	
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182.612 Acute embolism and thrombosis of superficial veins of left upper extremity	
I82.613 Acute embolism and thrombosis of superficial veins of upper extremity, bilateral	
I82.621 Acute embolism and thrombosis of deep veins of right upper extremity	
I82.622 Acute embolism and thrombosis of deep veins of left upper extremity	
I82.623Acute embolism and thrombosis of deep veins of upper extremity, bilateral	
I82.701 Chronic embolism and thrombosis of unspecified veins of right upper extremity	
I82.702 Chronic embolism and thrombosis of unspecified veins of left upper extremity	
182.703Chronic embolism and thrombosis of unspecified veins of upper extremity, bilateral	
I82.711Chronic embolism and thrombosis of superficial veins of right upper extremity	
I82.712Chronic embolism and thrombosis of superficial veins of left upper extremity	
I82.713Chronic embolism and thrombosis of superficial veins of upper extremity, bilateral	
I82.721 Chronic embolism and thrombosis of deep veins of right upper extremity	
182.722Chronic embolism and thrombosis of deep veins of left upper extremity	
182.723Chronic embolism and thrombosis of deep veins of upper extremity, bilateral	
I82.A11 Acute embolism and thrombosis of right axillary vein	
I82.A12 Acute embolism and thrombosis of left axillary vein	
I82.A13 Acute embolism and thrombosis of axillary vein, bilateral	
I82.A21 Chronic embolism and thrombosis of right axillary vein	
182.A22 Chronic embolism and thrombosis of left axillary vein	
I82.A23 Chronic embolism and thrombosis of axillary vein, bilateral	
I82.B11 Acute embolism and thrombosis of right subclavian vein	
I82.B12 Acute embolism and thrombosis of left subclavian vein	

I82.B13	Acute embolism and thrombosis of subclavian vein, bilateral
I82.B21	Chronic embolism and thrombosis of right subclavian vein
182.B22	Chronic embolism and thrombosis of left subclavian vein
182.B23	Chronic embolism and thrombosis of subclavian vein, bilateral
182.C11	Acute embolism and thrombosis of right internal jugular vein
182.C12	Acute embolism and thrombosis of left internal jugular vein
I82.C13	Acute embolism and thrombosis of internal jugular vein, bilateral
182.C21	Chronic embolism and thrombosis of right internal jugular vein
182.C22	Chronic embolism and thrombosis of left internal jugular vein
182.C23	Chronic embolism and thrombosis of internal jugular vein, bilateral
182.811	Embolism and thrombosis of superficial veins of right lower extremity
182.812	Embolism and thrombosis of superficial veins of left lower extremity
182.813	Embolism and thrombosis of superficial veins of lower extremities, bilateral
182.890	Acute embolism and thrombosis of other specified veins
182.91	Chronic embolism and thrombosis of unspecified vein

Group 2 Codes:

The following ICD-10-CM codes support medical necessity and provide coverage for CPT code **81490**:

ICD-10	Description
Code	
M05.00	Felty's syndrome, unspecified site
M05.011	Felty's syndrome, right shoulder
M05.012	Felty's syndrome, left shoulder
M05.019	Felty's syndrome, unspecified shoulder
M05.021	Felty's syndrome, right elbow
M05.022	Felty's syndrome, left elbow
M05.029	Felty's syndrome, unspecified elbow
M05.031	Felty's syndrome, right wrist
M05.032	Felty's syndrome, left wrist
M05.039	Felty's syndrome, unspecified wrist
M05.041	Felty's syndrome, right hand
M05.042	Felty's syndrome, left hand
M05.049	Felty's syndrome, unspecified hand
M05.051	Felty's syndrome, right hip
M05.052	Felty's syndrome, left hip
M05.059	Felty's syndrome, unspecified hip
M05.061	Felty's syndrome, right knee
M05.062	Felty's syndrome, left knee
M05.069	Felty's syndrome, unspecified knee
M05.071	Felty's syndrome, right ankle and foot
M05.072	Felty's syndrome, left ankle and foot
M05.09	Felty's syndrome, multiple sites
M05.10	Rheumatoid lung disease with rheumatoid arthritis of unspecified site
M05.111	Rheumatoid lung disease with rheumatoid arthritis of right shoulder
M05.112	Rheumatoid lung disease with rheumatoid arthritis of left shoulder

M05.119	Rheumatoid lung disease with rheumatoid arthritis of unspecified site
M05.121	Rheumatoid lung disease with rheumatoid arthritis of right elbow
M05.121	Rheumatoid lung disease with rheumatoid arthritis of left elbow
M05.122	Rheumatoid lung disease with rheumatoid arthritis of unspecified elbow
M05.123	Rheumatoid lung disease with rheumatoid arthritis of right wrist
M05.131 M05.132	
	Rheumatoid lung disease with rheumatoid arthritis of left wrist
M05.139	Rheumatoid lung disease with rheumatoid arthritis of unspecified wrist
M05.141	Rheumatoid lung disease with rheumatoid arthritis of right hand
M05.142	Rheumatoid lung disease with rheumatoid arthritis of left hand
M05.149	Rheumatoid lung disease with rheumatoid arthritis of unspecified hand
M05.151	Rheumatoid lung disease with rheumatoid arthritis of right hip
M05.152	Rheumatoid lung disease with rheumatoid arthritis of left hip
M05.159	Rheumatoid lung disease with rheumatoid arthritis of unspecified hip
M05.161	Rheumatoid lung disease with rheumatoid arthritis of right knee
M05.162	Rheumatoid lung disease with rheumatoid arthritis of left knee
M05.169	Rheumatoid lung disease with rheumatoid arthritis of unspecified knee
M05.171	Rheumatoid lung disease with rheumatoid arthritis of right ankle and foot
M05.172	Rheumatoid lung disease with rheumatoid arthritis of left ankle and foot
M05.179	Rheumatoid lung disease with rheumatoid arthritis of unspecified ankle and foot
M05.19	Rheumatoid lung disease with rheumatoid arthritis of multiple sites
M05.211	Rheumatoid vasculitis with rheumatoid arthritis of right shoulder
M05.20	Rheumatoid vasculitis with rheumatoid arthritis of unspecified site
M05.212	Rheumatoid vasculitis with rheumatoid arthritis of left shoulder
M05.219	Rheumatoid vasculitis with rheumatoid arthritis of unspecified shoulder
M05.221	Rheumatoid vasculitis with rheumatoid arthritis of right elbow
M05.222	Rheumatoid vasculitis with rheumatoid arthritis of left elbow
M05.229	Rheumatoid vasculitis with rheumatoid arthritis of unspecified elbow
M05.231	Rheumatoid vasculitis with rheumatoid arthritis of right wrist
M05.232	Rheumatoid vasculitis with rheumatoid arthritis of left wrist
M05.239	Rheumatoid vasculitis with rheumatoid arthritis of unspecified wrist
M05.241	Rheumatoid vasculitis with rheumatoid arthritis of right hand
M05.242	Rheumatoid vasculitis with rheumatoid arthritis of left hand
M05.251	Rheumatoid vasculitis with rheumatoid arthritis of right hip
M05.249	Rheumatoid vasculitis with rheumatoid arthritis of unspecified hand
M05.252	Rheumatoid vasculitis with rheumatoid arthritis of left hip
M05.259	Rheumatoid vasculitis with rheumatoid arthritis of unspecified hip
M05.261	Rheumatoid vasculitis with rheumatoid arthritis of right knee
M05.262	Rheumatoid vasculitis with rheumatoid arthritis of left knee
M05.269	Rheumatoid vasculitis with rheumatoid arthritis of unspecified knee
M05.271	Rheumatoid vasculitis with rheumatoid arthritis of right ankle and foot
M05.272	Rheumatoid vasculitis with rheumatoid arthritis of left ankle and foot
M05.279	Rheumatoid vasculitis with rheumatoid arthritis of unspecified ankle and foot

M05.311	Rheumatoid heart disease with rheumatoid arthritis of right shoulder
M05.30	Rheumatoid heart disease with rheumatoid arthritis of unspecified site
M05.312	Rheumatoid heart disease with rheumatoid arthritis of left shoulder
M05.321	Rheumatoid heart disease with rheumatoid arthritis of right elbow
M05.322	Rheumatoid heart disease with rheumatoid arthritis of left elbow
M05.319	Rheumatoid heart disease with rheumatoid arthritis of unspecified shoulder
M05.329	Rheumatoid heart disease with rheumatoid arthritis of unspecified elbow
M05.331	Rheumatoid heart disease with rheumatoid arthritis of right wrist
M05.332	Rheumatoid heart disease with rheumatoid arthritis of left wrist
M05.339	Rheumatoid heart disease with rheumatoid arthritis of unspecified wrist
M05.341	Rheumatoid heart disease with rheumatoid arthritis of right hand
M05.341	Rheumatoid heart disease with rheumatoid arthritis of left hand
M05.349	Rheumatoid heart disease with rheumatoid arthritis of unspecified hand
M05.351	Rheumatoid heart disease with rheumatoid arthritis of right hip
M05.351	Rheumatoid heart disease with rheumatoid arthritis of left hip
M05.352	Rheumatoid heart disease with rheumatoid arthritis of unspecified hip
M05.361	Rheumatoid heart disease with rheumatoid arthritis of right knee
M05.361	Rheumatoid heart disease with rheumatoid arthritis of left knee
M05.369	Rheumatoid heart disease with rheumatoid arthritis of unspecified knee
M05.371	Rheumatoid heart disease with rheumatoid arthritis of right ankle and foot
M05.371	Rheumatoid heart disease with rheumatoid arthritis of left ankle and foot
M05.372	Rheumatoid heart disease with rheumatoid arthritis of unspecified ankle and foot
M05.39	Rheumatoid heart disease with rheumatoid arthritis of multiple sites
M05.40	Rheumatoid myopathy with rheumatoid arthritis of unspecified site
M05.411	Rheumatoid myopathy with rheumatoid arthritis of right shoulder
M05.411	Rheumatoid myopathy with rheumatoid arthritis of left shoulder
M05.412	Rheumatoid myopathy with rheumatoid arthritis of unspecified shoulder
M05.413	Rheumatoid myopathy with rheumatoid arthritis of unspecified shoulder
M05.421	Rheumatoid myopathy with rheumatoid arthritis of left elbow
M05.422	Rheumatoid myopathy with rheumatoid arthritis of unspecified elbow
M05.431	Rheumatoid myopathy with rheumatoid arthritis of right wrist
M05.431	Rheumatoid myopathy with rheumatoid arthritis of left wrist
M05.432	Rheumatoid myopathy with rheumatoid arthritis of unspecified wrist
M05.441	Rheumatoid myopathy with rheumatoid arthritis of right hand
M05.441	Rheumatoid myopathy with rheumatoid arthritis of left hand
M05.449	Rheumatoid myopathy with rheumatoid arthritis of unspecified hand
M05.451	Rheumatoid myopathy with rheumatoid arthritis of right hip
M05.452	Rheumatoid myopathy with rheumatoid arthritis of left hip
M05.459	Rheumatoid myopathy with rheumatoid arthritis of unspecified hip
M05.461	Rheumatoid myopathy with rheumatoid arthritis of right knee
M05.462	Rheumatoid myopathy with rheumatoid arthritis of left knee
M05.469	Rheumatoid myopathy with rheumatoid arthritis of unspecified knee
M05.471	Rheumatoid myopathy with rheumatoid arthritis of right ankle and foot

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M05.472	Rheumatoid myopathy with rheumatoid arthritis of left ankle and foot
M05.479	Rheumatoid myopathy with rheumatoid arthritis of unspecified ankle and foot
M05.49	Rheumatoid myopathy with rheumatoid arthritis of multiple sites
M05.511	Rheumatoid polyneuropathy with rheumatoid arthritis of right shoulder
M05.50	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified site
M05.512	Rheumatoid polyneuropathy with rheumatoid arthritis of left shoulder
M05.519	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified shoulder
M05.521	Rheumatoid polyneuropathy with rheumatoid arthritis of right elbow
M05.529	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified elbow
M05.522	Rheumatoid polyneuropathy with rheumatoid arthritis of left elbow
M05.531	Rheumatoid polyneuropathy with rheumatoid arthritis of right wrist
M05.532	Rheumatoid polyneuropathy with rheumatoid arthritis of left wrist
M05.539	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified wrist
M05.541	Rheumatoid polyneuropathy with rheumatoid arthritis of right hand
M05.542	Rheumatoid polyneuropathy with rheumatoid arthritis of left hand
M05.549	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified hand
M05.551	Rheumatoid polyneuropathy with rheumatoid arthritis of right hip
M05.552	Rheumatoid polyneuropathy with rheumatoid arthritis of left hip
M05.559	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified hip
M05.561	Rheumatoid polyneuropathy with rheumatoid arthritis of right knee
M05.562	Rheumatoid polyneuropathy with rheumatoid arthritis of left knee
M05.569	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified knee
M05.571	Rheumatoid polyneuropathy with rheumatoid arthritis of right ankle and foot
M05.572	Rheumatoid polyneuropathy with rheumatoid arthritis of left ankle and foot
M05.579	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified ankle and foot
M05.59	Rheumatoid polyneuropathy with rheumatoid arthritis of multiple sites
M05.60	Rheumatoid arthritis of unspecified site with involvement of other organs and systems
M05.611	Rheumatoid arthritis of right shoulder with involvement of other organs and systems
M05.612	Rheumatoid arthritis of left shoulder with involvement of other organs and systems
M05.619	Rheumatoid arthritis of unspecified shoulder with involvement of other organs and systems
M05.621	Rheumatoid arthritis of right elbow with involvement of other organs and systems
M05.622	Rheumatoid arthritis of left elbow with involvement of other organs and systems
M05.629	Rheumatoid arthritis of unspecified elbow with involvement of other organs and systems
M05.631	Rheumatoid arthritis of right wrist with involvement of other organs and systems
M05.632	Rheumatoid arthritis of left wrist with involvement of other organs and systems
M05.639	Rheumatoid arthritis of unspecified wrist with involvement of other organs and systems
M05.641	Rheumatoid arthritis of right hand with involvement of other organs and systems
M05.642	Rheumatoid arthritis of left hand with involvement of other organs and systems
M05.649	Rheumatoid arthritis of unspecified hand with involvement of other organs and systems
M05.651	Rheumatoid arthritis of right hip with involvement of other organs and systems
M05.652	Rheumatoid arthritis of left hip with involvement of other organs and systems

M05.659	Rheumatoid arthritis of unspecified hip with involvement of other organs and systems
M05.661	Rheumatoid arthritis of right knee with involvement of other organs and systems
M05.662	Rheumatoid arthritis of left knee with involvement of other organs and systems
M05.669	Rheumatoid arthritis of unspecified knee with involvement of other organs and systems
M05.671	Rheumatoid arthritis of right ankle and foot with involvement of other organs and
14103.07 I	systems
M05.672	Rheumatoid arthritis of left ankle and foot with involvement of other organs and
	systems
M05.679	Rheumatoid arthritis of unspecified ankle and foot with involvement of other organs
	and systems
M05.69	Rheumatoid arthritis of multiple sites with involvement of other organs and systems
M05.70	Rheumatoid arthritis of unspecified ankle and foot with involvement of other organs
	and systems
M05.711	Rheumatoid arthritis with rheumatoid factor of right shoulder without organ or systems
	involvement
M05.712	Rheumatoid arthritis with rheumatoid factor of left shoulder without organ or systems
	involvement
M05.719	Rheumatoid arthritis with rheumatoid factor of unspecified shoulder without organ or
	systems involvement
M05.721	Rheumatoid arthritis with rheumatoid factor of right elbow without organ or systems
	involvement
M05.722	Rheumatoid arthritis with rheumatoid factor of left elbow without organ or systems
NAOE 720	involvement
M05.729	Rheumatoid arthritis with rheumatoid factor of unspecified elbow without organ or systems involvement
M05.731	Rheumatoid arthritis with rheumatoid factor of right wrist without organ or systems
1000.751	involvement
M05.732	Rheumatoid arthritis with rheumatoid factor of left wrist without organ or systems
	involvement
M05.739	Rheumatoid arthritis with rheumatoid factor of unspecified wrist without organ or
	systems involvement
M05.741	Rheumatoid arthritis with rheumatoid factor of right hand without organ or systems
	involvement
M05.742	Rheumatoid arthritis with rheumatoid factor of left hand without organ or systems
	involvement
M05.749	Rheumatoid arthritis with rheumatoid factor of unspecified hand without organ or
	systems involvement
M05.751	Rheumatoid arthritis with rheumatoid factor of right hip without organ or systems
	involvement
M05.752	Rheumatoid arthritis with rheumatoid factor of left hip without organ or systems
NAOE 350	involvement Resumpted atthritic with resumpted factor of unspecified bin without organ or
M05.759	Rheumatoid arthritis with rheumatoid factor of unspecified hip without organ or systems involvement
M05.761	systems involvement Rheumatoid arthritis with rheumatoid factor of right knee without organ or systems
	involvement
M05.762	Rheumatoid arthritis with rheumatoid factor of left knee without organ or systems
1103.702	involvement

M05.769	Rheumatoid arthritis with rheumatoid factor of unspecified knee without organ or systems involvement
M05.771	Rheumatoid arthritis with rheumatoid factor of right ankle and foot without organ or
	systems involvement
M05.772	Rheumatoid arthritis with rheumatoid factor of left ankle and foot without organ or
	systems involvement
M05.779	Rheumatoid arthritis with rheumatoid factor of unspecified ankle and foot without
	organ or systems involvement
M05.79	Rheumatoid arthritis with rheumatoid factor of multiple sites without organ or systems involvement
M05.811	Other rheumatoid arthritis with rheumatoid factor of right shoulder
M05.812	Other rheumatoid arthritis with rheumatoid factor of left shoulder
M05.821	Other rheumatoid arthritis with rheumatoid factor of right elbow
M05.822	Other rheumatoid arthritis with rheumatoid factor of left elbow
M05.831	Other rheumatoid arthritis with rheumatoid factor of right wrist
M05.831	Other rheumatoid arthritis with rheumatoid factor of left wrist
M05.841	Other rheumatoid arthritis with rheumatoid factor of right hand
M05.841	Other rheumatoid arthritis with rheumatoid factor of left hand
M05.851	
M05.851	Other rheumatoid arthritis with rheumatoid factor of right hip
	Other rheumatoid arthritis with rheumatoid factor of left hip
M05.861	Other rheumatoid arthritis with rheumatoid factor of right knee
M05.862	Other rheumatoid arthritis with rheumatoid factor of left knee
M05.871	Other rheumatoid arthritis with rheumatoid factor of right ankle and foot
M05.872	Other rheumatoid arthritis with rheumatoid factor of left ankle and foot
M05.89	Other rheumatoid arthritis with rheumatoid factor of multiple sites
M05.9	Rheumatoid arthritis with rheumatoid factor, unspecified
M06.00	Rheumatoid arthritis without rheumatoid factor, unspecified site
M06.011	Rheumatoid arthritis without rheumatoid factor, right shoulder
M06.012	Rheumatoid arthritis without rheumatoid factor, left shoulder
M06.019	Rheumatoid arthritis without rheumatoid factor, unspecified shoulder
M06.021	Rheumatoid arthritis without rheumatoid factor, right elbow
M06.022	Rheumatoid arthritis without rheumatoid factor, left elbow
M06.029	Rheumatoid arthritis without rheumatoid factor, unspecified elbow
M06.031	Rheumatoid arthritis without rheumatoid factor, right wrist
M06.032	Rheumatoid arthritis without rheumatoid factor, left wrist
M06.039	Rheumatoid arthritis without rheumatoid factor, unspecified wrist
M06.041	Rheumatoid arthritis without rheumatoid factor, right hand
M06.042	Rheumatoid arthritis without rheumatoid factor, left hand
M06.049	Rheumatoid arthritis without rheumatoid factor, unspecified hand
M06.051	Rheumatoid arthritis without rheumatoid factor, right hip
M06.052	Rheumatoid arthritis without rheumatoid factor, left hip
M06.059	Rheumatoid arthritis without rheumatoid factor, unspecified hip
M06.061	Rheumatoid arthritis without rheumatoid factor, right knee
M06.062	Rheumatoid arthritis without rheumatoid factor, left knee

M06.069	Rheumatoid arthritis without rheumatoid factor, unspecified knee
M06.071	Rheumatoid arthritis without rheumatoid factor, right ankle and foot
M06.072	Rheumatoid arthritis without rheumatoid factor, left ankle and foot
M06.079	Rheumatoid arthritis without rheumatoid factor, unspecified ankle and foot
M06.08	Rheumatoid arthritis without rheumatoid factor, vertebrae
M06.09	Rheumatoid arthritis without rheumatoid factor, multiple sites
M06.1	Adult-onset Still's disease
M06.20	Rheumatoid bursitis, unspecified site
M06.211	Rheumatoid bursitis, right shoulder
M06.212	Rheumatoid bursitis, left shoulder
M06.219	Rheumatoid bursitis, unspecified shoulder
M06.221	Rheumatoid bursitis, right elbow
M06.222	Rheumatoid bursitis, left elbow
M06.229	Rheumatoid bursitis, unspecified elbow
M06.231	Rheumatoid bursitis, right wrist
M06.232	Rheumatoid bursitis, left wrist
M06.239	Rheumatoid bursitis, unspecified wrist
M06.241	Rheumatoid bursitis, right hand
M06.242	Rheumatoid bursitis, left hand
M06.249	Rheumatoid bursitis, unspecified hand
M06.251	Rheumatoid bursitis, right hip
M06.252	Rheumatoid bursitis, left hip
M06.259	Rheumatoid bursitis, unspecified hip
M06.261	Rheumatoid bursitis, right knee
M06.262	Rheumatoid bursitis, left knee
M06.269	Rheumatoid bursitis, unspecified knee
M06.271	Rheumatoid bursitis, right ankle and foot
M06.272	Rheumatoid bursitis, left ankle and foot
M06.279	Rheumatoid bursitis, unspecified ankle and foot
M06.28	Rheumatoid bursitis, vertebrae
M06.29	Rheumatoid bursitis, multiple sites
M06.30	Rheumatoid nodule, unspecified site
M06.311	Rheumatoid nodule, right shoulder
M06.312	Rheumatoid nodule, left shoulder
M06.319	Rheumatoid nodule, unspecified shoulder
M06.321	Rheumatoid nodule, right elbow
M06.322	Rheumatoid nodule, left elbow
M06.329	Rheumatoid nodule, unspecified elbow
M06.331	Rheumatoid nodule, right wrist
M06.332	Rheumatoid nodule, left wrist
M06.339	Rheumatoid nodule, unspecified wrist
M06.341	Rheumatoid nodule, right hand
M06.342	Rheumatoid nodule, left hand

M06.349	
	Rheumatoid nodule, unspecified hand
M06.351	Rheumatoid nodule, right hip
M06.352	Rheumatoid nodule, left hip
M06.359	Rheumatoid nodule, unspecified hip
M06.361	Rheumatoid nodule, right knee
M06.362	Rheumatoid nodule, left knee
M06.369	Rheumatoid nodule, unspecified knee
M06.371	Rheumatoid nodule, right ankle and foot
M06.372	Rheumatoid nodule, left ankle and foot
M06.379	Rheumatoid nodule, unspecified ankle and foot
M06.38	Rheumatoid nodule, vertebrae
M06.39	Rheumatoid nodule, multiple sites
M06.811	Other specified rheumatoid arthritis, right shoulder
M06.812	Other specified rheumatoid arthritis, left shoulder
M06.821	Other specified rheumatoid arthritis, right elbow
M06.822	Other specified rheumatoid arthritis, left elbow
M06.831	Other specified rheumatoid arthritis, right wrist
M06.832	Other specified rheumatoid arthritis, left wrist
M06.841	Other specified rheumatoid arthritis, right hand
M06.842	Other specified rheumatoid arthritis, left hand
M06.851	Other specified rheumatoid arthritis, right hip
M06.852	Other specified rheumatoid arthritis, left hip
M06.861	Other specified rheumatoid arthritis, right knee
M06.862	Other specified rheumatoid arthritis, left knee
M06.871	Other specified rheumatoid arthritis, right ankle and foot
M06.872	Other specified rheumatoid arthritis, left ankle and foot
M06.88	Other specified rheumatoid arthritis, vertebrae
M06.89	Other specified rheumatoid arthritis, multiple sites
M06.9	Rheumatoid arthritis, unspecified

Group 3 Codes:

The following ICD-10-CM codes support medical necessity and provide coverage for CPT code **81595-CARDIOLOGY ALLOMAP**:

ICD-10	Description
Code	
Z48.21	Encounter for aftercare following heart transplant
Z94.1	Heart transplant status

<u>Reimbursement</u>

Participating facilities will be reimbursed per their Highmark Wholecare[™] contract.