



<b>CLINICAL MEDICAL POLICY</b>	
<b>Policy Name:</b>	Biomarkers Overview (L35062)
<b>Policy Number:</b>	MP-076-MC-PA
<b>Responsible Department(s):</b>	Medical Management
<b>Provider Notice/Issue Date:</b>	12/01/2022; 11/19/2021; 11/23/2020; 12/09/2019; 12/15/2018
<b>Effective Date:</b>	01/01/2023; 12/20/2021; 12/21/2020; 12/09/2019; 12/15/2018
<b>Next Annual Review:</b>	10/2023
<b>Revision Date:</b>	10/19/2022; 10/20/2021; 10/21/2020; 10/16/2019
<b>Products:</b>	Pennsylvania Medicare Assured
<b>Application:</b>	All participating and nonparticipating hospitals and providers
<b>Page Number(s):</b>	1 of 14

### Policy History

Date	Activity
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 '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 I82.91.
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, I82.290, I82.291, I82.3, I82.401, I82.402, I82.403, I82.411, I82.412, I82.413, I82.421, I82.422, I82.423, I82.431, I82.432, I82.433, I82.441, I82.442, I82.443, I82.451, I82.452, I82.453, I82.461, I82.462, I82.463, I82.491, I82.492, I82.493, I82.4Y1, I82.4Y2, I82.4Y3, I82.4Z1, I82.4Z2, I82.4Z3, I82.501, I82.502, I82.503, I82.511, I82.512, I82.513, I82.521,

	I82.522, I82.523, I82.531, I82.532, I82.533, I82.541, I82.542, I82.543, I82.551, I82.552, I82.553, I82.561, I82.562, I82.563, I82.591, I82.592, I82.593, I82.5Y1, I82.5Y2, I82.5Y3, I82.5Z1, I82.5Z2, I82.5Z3, I82.601, I82.602, I82.603, I82.611, I82.612, I82.613, I82.621, I82.622, I82.623, I82.701, I82.702, I82.703, I82.711, I82.712, I82.713, I82.721, I82.722, I82.723, I82.A11, I82.A12, I82.A13, I82.A21, I82.A22, I82.A23, I82.B11, I82.B12, I82.B13, I82.B21, I82.B22, I82.B23, I82.C11, I82.C12, I82.C13, I82.C21, I82.C22, I82.C23, I82.811, I82.812, I82.813, I82.890, I82.91.
12/21/2020	Provider effective date
10/21/2020	Annual Review; Edited policy into new format by removing the references to attachments, removing the policy criteria (Benefit category, Item/Service Description, Indications and Limitations of Coverage). Per the new format, Links to CMS, the LCD and LCA were added. Moved references section under Links removed duplicate coding, added CMS LCA, corrected font size
10/21/2020	QI/UM Committee review
12/09/2019	Provider effective date
10/16/2019	Annual Review: Added CPT codes 81329, 81336 & 81337 as covered codes under Section 1, Germline (hereditary) Mutation Table; added 81415, 81416, 81417, 81425, 81426, & 81427 to the Group 3 Noncovered Codes table; no criteria changes; references updated
10/16/2019	QI/UM Committee Review Approval
12/15/2018	Provider effective date
10/17/2018	QI/UM Committee approval
09/17/2018	Initial policy developed

### **Disclaimer**

Highmark Wholecare<sup>SM</sup> 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<sup>SM</sup> 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.
2. Post-payment Audit Statement  
The medical record must include documentation that reflects the medical necessity criteria and is subject to audit by Highmark Wholecare<sup>SM</sup> 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<sup>SM</sup> follows the coverage determinations made by CMS as outlined in either the NCD or state-specific LCD/LCA.

CMS Link:

- [CMS Website](#)

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 \(A56541\)](#)

Related Article Link:

- [Response to Comments: Biomarkers for Oncology \(A58529\)](#)

## **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 September 20, 2022.

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 12, 2021. Accessed on September 20, 2022.

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 December 12, 2021. Accessed on September 20, 2022.

The Centers for Medicare and Medicaid Services (CMS). Local Coverage Article (LCA) Response to Comments: Biomarkers for Oncology (A58529). Original Effective date December 13, 2020. Accessed on September 20, 2022.

## **Coding Requirements**

### Bill Type Codes:

Contractors may specify Bill Types to help providers identify those Bill Types typically used to report this service. Absence of a Bill Type does not guarantee that the policy does not apply to that Bill Type. Complete absence of all Bill Types indicates that coverage is not influenced by Bill Type and the policy should be assumed to apply equally to all claims.

012x	Hospital Inpatient (Medicare Part B only)
013x	Hospital Outpatient
014x	Hospital - Laboratory Services Provided to Non-patients
018x	Hospital - Swing Beds
021x	Skilled Nursing - Inpatient (Including Medicare Part A)
022x	Skilled Nursing - Inpatient (Medicare Part B only)
023x	Skilled Nursing - Outpatient
071x	Clinic - Rural Health
072x	Clinic - Hospital Based or Independent Renal Dialysis Center
073x	Clinic - Freestanding
075x	Clinic - Comprehensive Outpatient Rehabilitation Facility (CORF)
077x	Clinic - Federally Qualified Health Center (FQHC)
083x	Ambulatory Surgery Center
085x	Critical Access Hospital

### Revenue Codes

Contractors may specify Revenue Codes to help providers identify those Revenue Codes typically used to report this service. In most instances Revenue Codes are purely advisory. Unless specified in the policy, services reported under other Revenue Codes are equally subject to this coverage determination.

Complete absence of all Revenue Codes indicates that coverage is not influenced by Revenue Code and the policy should be assumed to apply equally to all Revenue Codes.

**Note:** The contractor has identified the Bill Type and Revenue Codes applicable for use with the CPT/HCPCS codes included in this LCD. Providers are reminded that not all CPT/HCPCS codes listed can be billed with all Bill Type or Revenue Codes listed. CPT/HCPCS codes are required to be billed with specific Bill Type and Revenue Codes. Providers are encouraged to refer to the CMS IOM Pub. 100-04, *Medicare Claims Processing Manual*, for further guidance.

- 0300 Laboratory - General Classification
- 0301 Laboratory - Chemistry
- 0302 Laboratory - Immunology
- 0303 Laboratory - Renal Patient (Home)
- 0304 Laboratory - Non-Routine Dialysis
- 0305 Laboratory - Hematology
- 0306 Laboratory - Bacteriology & Microbiology
- 0307 Laboratory - Urology
- 0309 Laboratory - Other Laboratory
- 0310 Laboratory Pathology - General Classification
- 0311 Laboratory Pathology - Cytology
- 0312 Laboratory Pathology – Histology
- 0314 Laboratory Pathology – Biopsy
- 0319 Laboratory Pathology – Other Laboratory Pathology

Procedure Codes

Group 1 Codes:

CPT Code	Description
81201	Apc gene full sequence
81202	Apc gene known fam variants
81203	Apc gene dup/delet variants
81240	F2 gene
81241	F5 gene
81242	Fancc gene
81250	G6pc gene
81251	Gba gene
81252	Gjb2 gene full sequence
81253	Gjb2 gene known fam variants
81254	Gjb6 gene com variants
81255	Hexa gene
81256	Hfe gene
81257	Hba1/hba2 gene
81258	Hba1/hba2 gene fam vrnt
81259	Hba1/hba2 full gene sequence
81265	Str markers specimen anal
81266	Str markers spec anal addl
81267	Chimerism anal no cell selec
81268	Chimerism anal w/cell select
81269	Hba1/hba2 gene dup/del vrnts

81288	Mlh1 gene
81290	Mcoln1 gene
81295	Msh2 gene full seq
81296	Msh2 gene known variants
81297	Msh2 gene dup/delete variant
81298	Msh6 gene full seq
81299	Msh6 gene known variants
81300	Msh6 gene dup/delete variant
81317	Pms2 gene full seq analysis
81318	Pms2 known familial variants
81319	Pms2 gene dup/delet variants
81324	Pmp22 gene dup/delet
81325	Pmp22 gene full sequence
81326	Pmp22 gene known fam variant
81329	Sm1 gene dos/deletion alys
81332	Serpina1 gene
81336	Smn1 gene full sequence
81337	Smn1 gene known famil seq vmt
81370	Hla I & II typing lr
81371	Hla I & II type verify lr
81372	Hla I typing complete lr
81373	Hla I typing 1 locus lr
81375	Hla II typing ag equiv lr
81376	Hla II typing 1 locus lr
81378	Hla I & II typing hr
81379	Hla I typing complete hr
81380	Hla I typing 1 locus hr
81382	Hla II typing 1 loc hr
81490	Autoimmune rheumatoid arthr
81595	Cardiology hrt trnspl mrna
0001U	Rbc dna hea 35 ag 11 bld grp

Diagnosis Codes

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

Group 1 Codes:

ICD-10 Code	Description
I81	Portal vein thrombosis
I82.0	Budd-Chiari syndrome
I82.1	Thrombophlebitis migrans
I82.210	Acute embolism and thrombosis of superior vena cava
I82.211	Chronic embolism and thrombosis of superior vena cava
I82.220	Acute embolism and thrombosis of inferior vena cava
I82.221	Chronic embolism and thrombosis of inferior vena cava
I82.290	Acute embolism and thrombosis of other thoracic veins
I82.291	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
182.4Y3	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 left 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
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 tibial vein, bilateral
182.551	Chronic embolism and thrombosis of right peroneal vein
182.552	Chronic embolism and thrombosis of left peroneal vein
182.553	Chronic embolism and thrombosis of peroneal vein, bilateral
182.561	Chronic embolism and thrombosis of right calf muscular vein
182.562	Chronic embolism and thrombosis of left calf muscular vein
182.563	Chronic embolism and thrombosis of calf muscular vein, bilateral
182.591	Chronic embolism and thrombosis of other specified deep vein of right lower extremity
182.592	Chronic embolism and thrombosis of other specified deep vein of left lower extremity
182.593	Chronic embolism and thrombosis of other specified deep vein of lower extremity, bilateral
182.5Y1	Chronic embolism and thrombosis of unspecified deep veins of right proximal lower extremity
182.5Y2	Chronic embolism and thrombosis of unspecified deep veins of left proximal lower extremity
182.5Y3	Chronic embolism and thrombosis of unspecified deep veins of proximal lower extremity, bilateral
182.5Z1	Chronic embolism and thrombosis of unspecified deep veins of right distal lower extremity
182.5Z2	Chronic embolism and thrombosis of unspecified deep veins of left distal lower extremity
182.5Z3	Chronic embolism and thrombosis of unspecified deep veins of distal lower extremity, bilateral
182.601	Acute embolism and thrombosis of unspecified veins of right upper extremity
182.602	Acute embolism and thrombosis of unspecified veins of left upper extremity
182.603	Acute embolism and thrombosis of unspecified veins of upper extremity, bilateral
182.611	Acute embolism and thrombosis of superficial veins of right upper extremity
182.612	Acute embolism and thrombosis of superficial veins of left upper extremity
182.613	Acute embolism and thrombosis of superficial veins of upper extremity, bilateral
182.621	Acute embolism and thrombosis of deep veins of right upper extremity
182.622	Acute embolism and thrombosis of deep veins of left upper extremity
182.623	Acute embolism and thrombosis of deep veins of upper extremity, bilateral
182.701	Chronic embolism and thrombosis of unspecified veins of right upper extremity
182.702	Chronic embolism and thrombosis of unspecified veins of left upper extremity
182.703	Chronic embolism and thrombosis of unspecified veins of upper extremity, bilateral
182.711	Chronic embolism and thrombosis of superficial veins of right upper extremity
182.712	Chronic embolism and thrombosis of superficial veins of left upper extremity
182.713	Chronic embolism and thrombosis of superficial veins of upper extremity, bilateral
182.721	Chronic embolism and thrombosis of deep veins of right upper extremity
182.722	Chronic embolism and thrombosis of deep veins of left upper extremity
182.723	Chronic embolism and thrombosis of deep veins of upper extremity, bilateral
182.A11	Acute embolism and thrombosis of right axillary vein
182.A12	Acute embolism and thrombosis of left axillary vein
182.A13	Acute embolism and thrombosis of axillary vein, bilateral
182.A21	Chronic embolism and thrombosis of right axillary vein
182.A22	Chronic embolism and thrombosis of left axillary vein
182.A23	Chronic embolism and thrombosis of axillary vein, bilateral
182.B11	Acute embolism and thrombosis of right subclavian vein
182.B12	Acute embolism and thrombosis of left subclavian vein
182.B13	Acute embolism and thrombosis of subclavian vein, bilateral
182.B21	Chronic embolism and thrombosis of right subclavian vein



I82.B22	Chronic embolism and thrombosis of left subclavian vein
I82.B23	Chronic embolism and thrombosis of subclavian vein, bilateral
I82.C11	Acute embolism and thrombosis of right internal jugular vein
I82.C12	Acute embolism and thrombosis of left internal jugular vein
I82.C13	Acute embolism and thrombosis of internal jugular vein, bilateral
I82.C21	Chronic embolism and thrombosis of right internal jugular vein
I82.C22	Chronic embolism and thrombosis of left internal jugular vein
I82.C23	Chronic embolism and thrombosis of internal jugular vein, bilateral
I82.811	Embolism and thrombosis of superficial veins of right lower extremity
I82.812	Embolism and thrombosis of superficial veins of left lower extremity
I82.813	Embolism and thrombosis of superficial veins of lower extremities, bilateral
I82.890	Acute embolism and thrombosis of other specified veins
I82.91	Chronic embolism and thrombosis of unspecified vein

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

Group 2 Codes:

ICD-10 Code	Description
M05.011	Felty's syndrome, right shoulder
M05.012	Felty's syndrome, left shoulder
M05.021	Felty's syndrome, right elbow
M05.022	Felty's syndrome, left elbow
M05.031	Felty's syndrome, right wrist
M05.032	Felty's syndrome, left wrist
M05.041	Felty's syndrome, right hand
M05.042	Felty's syndrome, left hand
M05.051	Felty's syndrome, right hip
M05.052	Felty's syndrome, left hip
M05.061	Felty's syndrome, right knee
M05.062	Felty's syndrome, left 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
M05.111	Rheumatoid lung disease with rheumatoid arthritis of right shoulder
M05.112	Rheumatoid lung disease with rheumatoid arthritis of left shoulder
M05.121	Rheumatoid lung disease with rheumatoid arthritis of right elbow
M05.122	Rheumatoid lung disease with rheumatoid arthritis of left elbow
M05.131	Rheumatoid lung disease with rheumatoid arthritis of right wrist
M05.132	Rheumatoid lung disease with rheumatoid arthritis of left wrist
M05.141	Rheumatoid lung disease with rheumatoid arthritis of right hand
M05.142	Rheumatoid lung disease with rheumatoid arthritis of left hand
M05.151	Rheumatoid lung disease with rheumatoid arthritis of right hip
M05.152	Rheumatoid lung disease with rheumatoid arthritis of left hip
M05.161	Rheumatoid lung disease with rheumatoid arthritis of right knee
M05.162	Rheumatoid lung disease with rheumatoid arthritis of left 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

M05.19	Rheumatoid lung disease with rheumatoid arthritis of multiple sites
M05.211	Rheumatoid vasculitis with rheumatoid arthritis of right shoulder
M05.212	Rheumatoid vasculitis with rheumatoid arthritis of left shoulder
M05.221	Rheumatoid vasculitis with rheumatoid arthritis of right elbow
M05.222	Rheumatoid vasculitis with rheumatoid arthritis of left elbow
M05.231	Rheumatoid vasculitis with rheumatoid arthritis of right wrist
M05.232	Rheumatoid vasculitis with rheumatoid arthritis of left 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
M05.252	Rheumatoid vasculitis with rheumatoid arthritis of left hip
M05.261	Rheumatoid vasculitis with rheumatoid arthritis of right knee
M05.262	Rheumatoid vasculitis with rheumatoid arthritis of left 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
M05.29	Rheumatoid vasculitis with rheumatoid arthritis of multiple sites
M05.311	Rheumatoid heart disease with rheumatoid arthritis of right shoulder
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
M05.331	Rheumatoid heart disease with rheumatoid arthritis of right wrist
M05.332	Rheumatoid heart disease with rheumatoid arthritis of left wrist
M05.341	Rheumatoid heart disease with rheumatoid arthritis of right hand
M05.342	Rheumatoid heart disease with rheumatoid arthritis of left hand
M05.351	Rheumatoid heart disease with rheumatoid arthritis of right hip
M05.352	Rheumatoid heart disease with rheumatoid arthritis of left hip
M05.361	Rheumatoid heart disease with rheumatoid arthritis of right knee
M05.362	Rheumatoid heart disease with rheumatoid arthritis of left knee
M05.371	Rheumatoid heart disease with rheumatoid arthritis of right ankle and foot
M05.372	Rheumatoid heart disease with rheumatoid arthritis of left ankle and foot
M05.39	Rheumatoid heart disease with rheumatoid arthritis of multiple sites
M05.411	Rheumatoid myopathy with rheumatoid arthritis of right shoulder
M05.412	Rheumatoid myopathy with rheumatoid arthritis of left shoulder
M05.421	Rheumatoid myopathy with rheumatoid arthritis of right elbow
M05.422	Rheumatoid myopathy with rheumatoid arthritis of left elbow
M05.431	Rheumatoid myopathy with rheumatoid arthritis of right wrist
M05.432	Rheumatoid myopathy with rheumatoid arthritis of left wrist
M05.441	Rheumatoid myopathy with rheumatoid arthritis of right hand
M05.442	Rheumatoid myopathy with rheumatoid arthritis of left hand
M05.451	Rheumatoid myopathy with rheumatoid arthritis of right hip
M05.452	Rheumatoid myopathy with rheumatoid arthritis of left hip
M05.461	Rheumatoid myopathy with rheumatoid arthritis of right knee
M05.462	Rheumatoid myopathy with rheumatoid arthritis of left knee
M05.471	Rheumatoid myopathy with rheumatoid arthritis of right ankle and foot
M05.472	Rheumatoid myopathy with rheumatoid arthritis of left ankle and foot
M05.49	Rheumatoid myopathy with rheumatoid arthritis of multiple sites
M05.511	Rheumatoid polyneuropathy with rheumatoid arthritis of right shoulder
M05.512	Rheumatoid polyneuropathy with rheumatoid arthritis of left shoulder

M05.521	Rheumatoid polyneuropathy with rheumatoid arthritis of right 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
M05.541	Rheumatoid polyneuropathy with rheumatoid arthritis of right hand
M05.542	Rheumatoid polyneuropathy with rheumatoid arthritis of left hand
M05.551	Rheumatoid polyneuropathy with rheumatoid arthritis of right hip
M05.552	Rheumatoid polyneuropathy with rheumatoid arthritis of left hip
M05.561	Rheumatoid polyneuropathy with rheumatoid arthritis of right knee
M05.562	Rheumatoid polyneuropathy with rheumatoid arthritis of left 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
M05.59	Rheumatoid polyneuropathy with rheumatoid arthritis of multiple sites
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
M05.621	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
M05.631	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
M05.641	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
M05.651	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
M05.661	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
M05.671	Rheumatoid arthritis of right ankle and foot with involvement of other organs and systems
M05.672	Rheumatoid arthritis of left ankle and foot with involvement of other organs and systems
M05.69	Rheumatoid arthritis of multiple sites with involvement of other organs and systems
M05.711	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
M05.721	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 involvement
M05.731	Rheumatoid arthritis with rheumatoid factor of right wrist without organ or systems involvement
M05.732	Rheumatoid arthritis with rheumatoid factor of left 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
M05.751	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 involvement

M05.761	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 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
M05.79	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
M05.832	Other rheumatoid arthritis with rheumatoid factor of left wrist
M05.841	Other rheumatoid arthritis with rheumatoid factor of right hand
M05.842	Other rheumatoid arthritis with rheumatoid factor of left hand
M05.851	Other rheumatoid arthritis with rheumatoid factor of right hip
M05.852	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
M06.011	Rheumatoid arthritis without rheumatoid factor, right shoulder
M06.012	Rheumatoid arthritis without rheumatoid factor, left shoulder
M06.021	Rheumatoid arthritis without rheumatoid factor, right elbow
M06.022	Rheumatoid arthritis without rheumatoid factor, left elbow
M06.031	Rheumatoid arthritis without rheumatoid factor, right wrist
M06.032	Rheumatoid arthritis without rheumatoid factor, left wrist
M06.041	Rheumatoid arthritis without rheumatoid factor, right hand
M06.042	Rheumatoid arthritis without rheumatoid factor, left hand
M06.051	Rheumatoid arthritis without rheumatoid factor, right hip
M06.052	Rheumatoid arthritis without rheumatoid factor, left hip
M06.061	Rheumatoid arthritis without rheumatoid factor, right knee
M06.062	Rheumatoid arthritis without rheumatoid factor, left knee
M06.071	Rheumatoid arthritis without rheumatoid factor, right ankle and foot
M06.072	Rheumatoid arthritis without rheumatoid factor, left 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
M06.211	Rheumatoid bursitis, right shoulder
M06.212	Rheumatoid bursitis, left shoulder
M06.221	Rheumatoid bursitis, right elbow
M06.222	Rheumatoid bursitis, left elbow
M06.231	Rheumatoid bursitis, right wrist
M06.232	Rheumatoid bursitis, left wrist

M06.241	Rheumatoid bursitis, right hand
M06.242	Rheumatoid bursitis, left hand
M06.251	Rheumatoid bursitis, right hip
M06.252	Rheumatoid bursitis, left hip
M06.261	Rheumatoid bursitis, right knee
M06.262	Rheumatoid bursitis, left knee
M06.271	Rheumatoid bursitis, right ankle and foot
M06.272	Rheumatoid bursitis, left ankle and foot
M06.28	Rheumatoid bursitis, vertebrae
M06.29	Rheumatoid bursitis, multiple sites
M06.311	Rheumatoid nodule, right shoulder
M06.312	Rheumatoid nodule, left shoulder
M06.321	Rheumatoid nodule, right elbow
M06.322	Rheumatoid nodule, left elbow
M06.331	Rheumatoid nodule, right wrist
M06.332	Rheumatoid nodule, left wrist
M06.341	Rheumatoid nodule, right hand
M06.342	Rheumatoid nodule, left hand
M06.351	Rheumatoid nodule, right hip
M06.352	Rheumatoid nodule, left hip
M06.361	Rheumatoid nodule, right knee
M06.362	Rheumatoid nodule, left knee
M06.371	Rheumatoid nodule, right ankle and foot
M06.372	Rheumatoid nodule, left 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

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

**CARDIOLOGY ALLOMAP:**

Group 3 Codes:

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

**Reimbursement**

Participating facilities will be reimbursed per their Highmark Wholecare<sup>SM</sup> contract.