

# MEDICAL POLICY

<b>Medical Policy Title</b>	<b>Laboratory Testing for the Screening and Management of Prostate Cancer</b>
<b>Policy Number</b>	<b>2.02.48</b>
<b>Current Effective Date</b>	<b>September 18, 2025</b>
<b>Next Review Date</b>	<b>September 2026</b>

Our medical policies are based on the assessment of evidence based, peer-reviewed literature, and professional guidelines. Eligibility for reimbursement is based upon the benefits set forth in the member's subscriber contract. (Link to [Product Disclaimer](#))

## POLICY STATEMENT(S)

### Biomarker Testing for Prostate Cancer Screening

- I. Biomarker tests for prostate cancer to diagnose or to determine a risk score are considered **investigational**. Including, but not limited to, the following tests:
  - A. PROGENSA PCA3 Assay (Prostate Cancer Antigen 3);
  - B. 4Kscore;
  - C. Prostate Health Index (PHI);
  - D. Mitochondrial DNA variant testing (e.g., Prostate Core Mitomics Test);
  - E. ConfirmMDx
  - F. Mi-Prostate Score (MiPS);
  - G. Tmprss fusion genes;
  - H. PanGIA Prostate;
  - I. Apifyin non-PSA blood test (Armune BioScience);
  - J. HOXC6 and DLX1 testing (e.g., SelectMDx);
  - K. PCA3, ERG, and SPDEF RNA expression in exosomes (e.g., ExoDx Prostate IntelliScore, Exosome Diagnostics, MyProstateScore (MPS), and IsoPSA); or
  - L. Urine-based advanced small noncoding RNA (sncRNA)interrogation (miR Sentinel);
  - M. EpiSwitch PSE.

### Management after Prostate Cancer Diagnosis

- II. Gene expression analysis to guide the management of prostate cancer, are considered **medically appropriate** when **ALL** of the following criteria have been met:
  - A. During initial risk stratification;
  - B. Individual has a life expectancy of ten or more years;
  - C. Individual falls into **ONE (1)** of the disease risk groups below:

**Medical Policy: Laboratory Testing for the Screening and Management of Prostate Cancer**  
**Policy Number: 2.02.48**

**Page: 2 of 22**

1. For Oncotype DX Genomic Prostate Score (GPS) or ProMark assay:
  - a. Low-risk disease; **or**
  - b. Favorable intermediate-risk disease.
2. For Prolaris or Decipher assay:
  - a. Low-risk disease;
  - b. Favorable intermediate-risk disease;
  - c. Unfavorable intermediate disease; **or**
  - d. High-risk disease.

III. ArteraAI is considered **investigational** for the management of prostate cancer.

**RELATED POLICIES**

Corporate Medical Policy

11.01.03 Experimental or Investigational Services

**POLICY GUIDELINE(S)**

- I. Patients should be provided with information about the potential benefits and harms of screening and the limits of the current evidence and should be allowed to make their own decision about screening, in consultation with their physician, based upon personal preferences.
- II. The Health Plan and its employees adhere to all State and Federal laws concerning the confidentiality of genetic testing and the results of genetic testing. All records, findings and results of any genetic test performed on any person shall be deemed confidential and shall not be disclosed without the written informed consent of the person to whom such genetic test relates. This information shall not be released to any person or organization not specifically authorized by the individual subject of the test or in compliance with applicable law.
- III. Genetic testing is appropriate only when performed by a qualified laboratory certified under the Clinical Laboratory Improvement Amendments of 1988 (CLIA) and offered in a setting with adequately trained health care professionals who are qualified to provide appropriate pre- and post-test counseling.
- IV. Genetic testing is contract dependent. Coverage only applies to members with a valid contract; coverage is not provided for family members without a valid contract.
- V. National Comprehensive Cancer Network (NCCN) Recommendations for Prostate Cancer Early Detection: Risk Factors, and Interval for Repeat Testing Grid
  - Guidelines are updated frequently; refer to the source document for current recommendations.

<b>Age/Risk factors</b>	<b>Prostate-Specific</b>	<b>Repeat Testing</b>
-------------------------	--------------------------	-----------------------

**Medical Policy: Laboratory Testing for the Screening and Management of Prostate Cancer**

**Policy Number: 2.02.48**

**Page: 3 of 22**

	<b>Antigen (PSA) (ng/mL)</b>	<b>Intervals</b>
45-75 yrs. for those with average risk <b>OR</b>	PSA Less than one (1) <b>AND</b> Digital Rectal Exam (DRE) normal (if done)	2 to 4 yrs.
40-75 yrs. for individuals with high risk: <ul style="list-style-type: none"> <li>• Black/African American individuals</li> <li>• Germline mutations that increase the risk for prostate cancer</li> <li>• Suspicious family history</li> </ul>	Individuals with high risk and PSA less than or equal to 3 ng/ml, DRE normal (if done) <b>AND</b> Individuals with average risk and PSA 1-3 ng/ml, DRE normal (if done)	1 to 2 yrs.
	PSA greater than 3 <b>AND/OR</b> DRE is very suspicious	Repeat PSA; workup for benign disease; perform multiparametric MRI if available and consider biomarkers that improve the specificity of screening
Greater than 75 yrs. in select patients If screening continued beyond age 75, perform only with caution in very healthy patients with little to no comorbidity, especially if they have never undergone PSA testing or have increasing PSA levels	PSA less than 4 ng/ml <b>AND</b> DRE normal (if done) <b>AND</b> no other indications for biopsy	1 to 3 yrs.
	PSA Greater than or equal to 4 ng/ml, <b>OR</b> DRE is very suspicious	Same algorithm as individuals ages 40-75 yrs. with PSA greater than three (3) and/or DRE is very suspicious.  Repeat PSA; workup for benign disease; perform multiparametric MRI if available and consider biomarkers that improve the specificity of screening
	Not screened	

VI. A tool to estimate life expectancy is the Social Security Administration tables found at: [accessed

**Medical Policy: Laboratory Testing for the Screening and Management of Prostate Cancer**  
**Policy Number: 2.02.48**

**Page: 4 of 22**

2025 Aug 27] Available from: <https://www.ssa.gov/OACT/STATS/table4c6.html>

VII. NCCN Prostate Cancer Guidelines, Risk Group Chart

Risk Group	Clinical/Pathologic Features			
Very Low	Has all of the following: <ul style="list-style-type: none"> <li>• cT1c</li> <li>• Grade Group 1</li> <li>• PSA &lt;10 ng/mL</li> <li>• &lt;3 prostate biopsy fragments/cores positive, ≤50% cancer in each fragment/core.</li> <li>• PSA density &lt;0.15 ng/mL/g</li> </ul>			
Low	Has all of the following but does not qualify for very low risk: <ul style="list-style-type: none"> <li>• cT1–cT2a</li> <li>• Grade Group 1</li> <li>• PSA &lt;10 ng/mL</li> </ul>			
Intermediate	Has all of the following: <ul style="list-style-type: none"> <li>• No high-risk group features.</li> <li>• No very-high-risk group features.</li> </ul> Has one or more intermediate risk factors (IRFs): <ul style="list-style-type: none"> <li>• cT2b–cT2c</li> <li>• Grade Group 2 or 3</li> <li>• PSA 10–20 ng/mL</li> </ul>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td data-bbox="997 1094 1524 1476"> <b>Favorable intermediate</b>            Has <b>ALL</b> of the following:           <ul style="list-style-type: none"> <li>• 1 IRF</li> <li>• Grade Group 1 or 2</li> <li>• &lt;50% biopsy cores positive (e.g., &lt;6 of 12 cores)</li> </ul> </td> </tr> <tr> <td data-bbox="997 1476 1524 1873"> <b>Unfavorable intermediate</b>            Has one or more of the following:           <ul style="list-style-type: none"> <li>• 2 or 3 IRFs</li> <li>• Grade Group 3</li> <li>• ≥ 50% biopsy cores positive (e.g., ≥ 6 of 12 cores).</li> </ul> </td> </tr> </table>	<b>Favorable intermediate</b> Has <b>ALL</b> of the following: <ul style="list-style-type: none"> <li>• 1 IRF</li> <li>• Grade Group 1 or 2</li> <li>• &lt;50% biopsy cores positive (e.g., &lt;6 of 12 cores)</li> </ul>	<b>Unfavorable intermediate</b> Has one or more of the following: <ul style="list-style-type: none"> <li>• 2 or 3 IRFs</li> <li>• Grade Group 3</li> <li>• ≥ 50% biopsy cores positive (e.g., ≥ 6 of 12 cores).</li> </ul>
<b>Favorable intermediate</b> Has <b>ALL</b> of the following: <ul style="list-style-type: none"> <li>• 1 IRF</li> <li>• Grade Group 1 or 2</li> <li>• &lt;50% biopsy cores positive (e.g., &lt;6 of 12 cores)</li> </ul>				
<b>Unfavorable intermediate</b> Has one or more of the following: <ul style="list-style-type: none"> <li>• 2 or 3 IRFs</li> <li>• Grade Group 3</li> <li>• ≥ 50% biopsy cores positive (e.g., ≥ 6 of 12 cores).</li> </ul>				
High	Has <b>one or more</b> high-risk features and has exactly one high-risk feature, but			

**Medical Policy: Laboratory Testing for the Screening and Management of Prostate Cancer**  
**Policy Number: 2.02.48**

**Page: 5 of 22**

	<p>does not meet criteria for very high risk:</p> <ul style="list-style-type: none"> <li>• cT3-cT4</li> <li>• Grade Group 4 or Grade Group 5</li> <li>• PSA &gt;20 ng/mL</li> </ul>
Very High	<p>Has at least two of the following:</p> <ul style="list-style-type: none"> <li>• cT3–cT4</li> <li>• PSA &gt;40 ng/ml</li> <li>• Grade Group 4 or 5</li> </ul>

**DESCRIPTION**

Prostate cancer is the second most common cancer in the United States with a five-year overall survival of nearly 100% because most prostate cancer diagnosed is a localized disease. Treatment for prostate cancer may include radical prostatectomy, radiation therapy, androgen deprivation therapy, or a combination of any of these treatment options. Research shows that prostate cancer specific mortality is low, with indolent disease often going undiagnosed in patients who die of other causes. Individuals with newly diagnosed prostate cancer can have either aggressive or indolent forms of the disease, and current tools are unable to discriminate between the two. Consequently, all patients are treated as though they have aggressive disease, which leads to overtreatment.

Molecular markers are being actively researched and being proposed as a method for risk-stratifying individuals with prostate cancer to make informed decisions related to biopsy/re-biopsy and treatment.

<b>Biomarkers</b>	<b>Molecular Markers</b>
<b>URINE BASED BIOMARKERS</b>	
PCA3 (Progenza)	Prostate cancer antigen 3 (PCA3) is a prostate specific noncoding messenger RNA (mRNA) that has been found to be over expressed in greater than 90% of all prostate tumors compared to that of benign prostatic tissue The PCA3 Score is intended for use in conjunction with standard-of-care diagnostic algorithms as an aid in the diagnosis of prostate cancer.
SelectMDx	The SelectMDx (MDxHealth, Irvine, CA, USA) assay measures the mRNA levels of two genes, HOXC6 and DLX1, that are known to be

**Medical Policy: Laboratory Testing for the Screening and Management of Prostate Cancer**

**Policy Number: 2.02.48**

**Page: 6 of 22**

	overexpressed in aggressive prostate cancer. Completed after abnormal PSA and DRE and gives a risk score to guide surveillance.
ExoDx (Intelliscore)	The ExoDx prostate Intelliscore (Exosome Diagnostics Inc., Cambridge, MA, USA) is a non-DRE urine exosome-based assay that measures PCA3 and ERG (Vets erythroblastosis virus E26 oncogene homologs) RNA levels along with a control gene, SPEDF. It then combines the molecular markers with SOC (standard of care) variables (PSA, race, age, family history) to delineate the risk of detecting > GGG 2 prostate cancer on biopsy. No DRE needed, provides a risk score before biopsy
MiPs	MiPS (University of Michigan, MLabs) is a post-DRE urine assay which is based on multiplex analysis of T2-ERG fusion, PCA3, and serum PSA (KLK3). Completed after abnormal PSA and DRE and gives a risk score.
PanGIA	A multi-analyte urine assay with algorithmic analysis that estimates an individual's risk of having prostate cancer. The test is marketed as a method to determine whether a patient should undergo a biopsy. Completed after abnormal PSA and DRE, guides surveillance.
<b>SERUM BASED BIOMARKERS</b>	
4K	Detection of four (4) different kallikrein proteins: total PSA, free PSA, intact PSA, and human kallikrein 2 (hK2). These values are then combined with patient age, DRE results (abnormal or normal), as well as results of prior prostate biopsies to provide a probability score of 0–100% of detecting clinically significant prostate cancer. The 4Kscore test can distinguish men with a low risk of having aggressive prostate cancer on biopsy from those with a high risk.
PHI	Analyzes the levels of free PSA, total PSA and the

# Medical Policy: Laboratory Testing for the Screening and Management of Prostate Cancer

Policy Number: 2.02.48

Page: 7 of 22

	<p>[–2] form of proPSA (p2PSA). It is calculated by using the following formula: <math>([-2] \text{ proPSA/free PSA}) \times \sqrt{\text{PSA}}</math>. PHI predicts the likelihood of progression during active surveillance.</p>
<b>TISSUE BASED BIOMARKERS</b>	
Confirm MDx	<p>DNA methylation assay that is prostate tissue biopsy-based. This test evaluates the methylation status of several genes known to be frequently found in prostate cancer: Glutathione S-Transferase Pi 1 (GSTP1), Adenomatous Polyposis Coli (APC), and Ras association domain family member 1 (RASSF1). These markers have been demonstrated to have a “field effect,” meaning a positive ConfirmMDx test in a cancer negative biopsy suggests that occult cancer was missed during the prostate biopsy. Completed after negative biopsy to guide surveillance.</p>

## Gene Expression and Artificial Intelligence Testing for Risk Assessment and Guide in Active Surveillance:

Test name	Description	Used to determine
Genomic Prostate Score (GPS) (Oncotype DX prostate Test)	<p>A multigene reverse transcription polymerase chain reaction (RT-PCR) assay designed to analyze underlying tumor biology in tumor tissue from diagnostic formalin-fixed parafilm-embedded (FFPE) core needle biopsies. The test includes five reference genes and 12 cancer genes representing distinct biological pathways with a known role in prostate tumorigenesis.</p>	<p>The Genomic Prostate Score (GPS) is calculated from the reference normalized expression of the 12 cancer-related genes. The GPS score ranges from 0 to 100 with the higher score reflecting a higher risk.</p>
Prolaris test	<p>A gene expression-based assay that directly measures tumor cell growth characteristics in 31 genes related to cell cycle</p>	<p>A CCP score is determined which is used to predict 10-year prostate cancer specific disease progression and</p>

## Medical Policy: Laboratory Testing for the Screening and Management of Prostate Cancer

Policy Number: 2.02.48

Page: 8 of 22

	progression (CCP) and 15 housekeeping genes.	mortality. CCP scores range from -3.0 to 7.0 with the higher score indicating higher estimated 10-year prostate cancer risk.
Decipher Prostate RP test	Uses the expression of 2 RNA biomarkers involved in multiple biological pathways across the genome that are associated with aggressive prostate cancer.	Calculates the probability of clinical metastasis within five years of radical prostatectomy surgery.
Decipher Prostate Biopsy test	A whole transcriptome test, utilizes 22 coding and non-coding biomarkers that span seven cancer pathways.	Determines whether the patient should undergo active surveillance, local therapy alone, or multi-modal therapy.
ProMark	Biopsy-based Prostate Cancer prognostic assay that utilizes a multiplex immunofluorescence imaging platform to quantify the values of 8 protein biomarkers demonstrated to be relevant to Prostate Cancer aggressiveness in men with Gleason 3+3 and 3+4 Prostate Cancer.	Biomarker values are incorporated into a risk score (ProMark Score; range: 1-100) indicating the likelihood of having high-risk disease.
ArteraAI	An algorithm assesses digital images from the patient's biopsy and learns from the patient's clinical data.	Biomarkers can predict therapeutic benefit and prognosticate long-term outcomes to enable cancer therapy personalization.

### SUPPORTIVE LITERATURE

Kawada et al (2024) conducted a meta-analysis aimed to evaluate the diagnostic accuracy of various multianalyte liquid biomarkers for detecting clinically significant prostate cancer (csPCa) using multiple thresholds. A comprehensive literature search was conducted identifying 49 eligible prospective and retrospective studies. The biomarkers assessed included PCA3, Prostate Health Index



## **Medical Policy: Laboratory Testing for the Screening and Management of Prostate Cancer**

### **Policy Number: 2.02.48**

**Page: 9 of 22**

(PHI), Four Kallikrein Panel (4K), SelectMDx, ExoDx, and Mi Prostate Score (MPS). Using thresholds determined by the Youden Index, the pooled sensitivity for csPCa detection ranged from 0.82 to 0.87, while specificity ranged from 0.37 to 0.59. The 4K panel demonstrated the highest diagnostic odds ratio (8.84), followed by MPS (7.0) and PHI (6.28). When incorporating multiple thresholds, 4K maintained the highest sensitivity (0.77), while PHI showed the highest specificity (0.72). The findings suggest that 4K offers the best overall diagnostic performance among commercial liquid biomarkers, with PHI being particularly effective in reducing unnecessary biopsies due to its high specificity. The study concludes that while liquid biomarkers are valuable tools for csPCa detection, optimal clinical decision-making should involve a combination of biomarker data and imaging techniques. Limitations included limited data for newer biomarkers (ExoDx and MPS) and older studies for PCA3 and 4K, and insufficient data for emerging biomarkers (Stockholm3 and circulating immune cells) and therefore were excluded. Another limitation was the difficulty distinguishing between initial and repeat biopsy settings and using the biopsy as a reference standard.

Ross et al (2024) evaluated a multimodal AI (MMAI) model that integrates digital histopathology with clinical data to improve prognostication in patients with high-risk or locally advanced prostate cancer. Using a cohort of 318 patients from the NRG/RTOG 9902 trial, the model was externally validated for its ability to predict distant metastasis (DM) and prostate cancer-specific mortality (PCSM). The MMAI model demonstrated strong, independent associations with both endpoints, with subdistribution hazard ratios of 2.33 for DM and 3.54 for prostate cancer specific mortality (PCSM). The model outperformed traditional clinical risk factors and NCCN high-risk criteria. The findings suggest that MMAI could serve as a valuable tool in clinical decision-making, offering more precise risk stratification to guide treatment planning in high-risk prostate cancer patients.

Spratt et al (2024) presented a novel AI-based approach to personalize treatment for prostate cancer patients. The researchers developed a predictive model using digital pathology images and clinical data from over 5,700 patients across five randomized trials. This model identifies which patients with intermediate-risk prostate cancer are likely to benefit from short-term androgen deprivation therapy (ADT) when combined with radiotherapy. Validation using data from a large clinical trial showed that only 34% of patients were predicted to benefit from ADT, while the remaining 66% did not show significant improvement, suggesting that many patients could avoid unnecessary side effects. The study highlights the potential of AI to guide more precise and effective cancer treatment decisions.

Pchejetski et al (2023) conducted a retrospective case-control study. This study evaluated the diagnostic performance of a combined PSA and Episwitch test—termed the Prostate Screening EpiSwitch (PSE) test—using two cohorts: 109 whole blood samples from the PROSTAGRAM screening pilot study and 38 samples from patients with confirmed PCa and cancer-negative controls from Imperial College NHS Trust. Samples were analyzed for PSA levels and circulating chromosome conformation signatures (CCSs) at loci including DAPK1, HSD3B2, SRD5A3, MMP1, and miRNA98, previously associated with high-risk PCa. PSA testing alone (cut-off >3 ng/mL) yielded a low positive predictive value (PPV) of 0.14 and a high negative predictive value (NPV) of 0.93. The Episwitch test alone demonstrated a PPV of 0.91 and NPV of 0.32. When combined, the PPV improved to 0.81, with a modest reduction in NPV to 0.78. Incorporating PSA as a continuous variable into a multivariate model with Episwitch data resulted in the PSE test, which achieved a PPV of 0.92 and NPV of 0.94 in an independent prospective cohort. The authors found that the test was accurate, rapid, minimally

## **Medical Policy: Laboratory Testing for the Screening and Management of Prostate Cancer**

### **Policy Number: 2.02.48**

**Page: 10 of 22**

invasive and cost-effective but further validation in a larger, blinded screening cohorts is recommended.

Esteva et al (2022) demonstrated prostate cancer therapy personalization by predicting long-term, clinically relevant outcomes using a multimodal deep learning architecture and train models using clinical data and digital histopathology from prostate biopsies. They trained and validated models using five phase III randomized trials conducted across hundreds of clinical centers. Histopathological data was available for 5,654 of 7,764 randomized patients (71%) with a median follow-up of 11.4 years. Compared to the most common risk-stratification tool-risk groups developed by the National Cancer Center Network (NCCN)-their models have superior discriminatory performance across all endpoints, ranging from 9.2% to 14.6% relative improvement in a held-out validation set. This artificial intelligence-based tool improves prognostication over standard tools and allows oncologists to computationally predict the likeliest outcomes of specific patients to determine optimal treatment. Outfitted with digital scanners and internet access, any clinic could offer such capabilities, enabling global access to therapy personalization.

Eggerer et al (2019), as part of an American Society of Clinical Oncology (ASCO) Multidisciplinary Expert Panel, conducted a systematic literature review of localized prostate cancer biomarker studies between Jan 2013 and 2019. Guidelines with recommendations for available tissue-based prostate cancer biomarkers were developed with a focus on patient selection for active surveillance, identification of clinically significant disease, choice of postprostatectomy adjuvant or salvage radiation therapy (RT), and the value of tissue biomarkers compared to magnetic resonance imaging (MRI). Numerous molecular biomarkers have been developed to improve risk stratification and patient management. Few panels have undergone extensive validation; however, five are commercially available and have been shown in retrospective analyses to provide additional information beyond standard clinical models in prognostication or patient selection for therapy. The authors indicated that, while these tissue-based tests may improve risk stratification when added to standard clinical parameters, their use may be offered in situations in which the assay result, when considered as a whole with routine clinical factors, is likely to affect management. Examples included select patients with high-volume low-risk or favorable intermediate-risk prostate cancer considering active surveillance, and patients with high-risk features for treatment intensification. The authors also noted that, while testing may influence management decisions, there is no high-level evidence to indicate that the results from these panels improve quality of life or cancer-specific outcomes. There have been additional biomarkers evaluated that do not have sufficient data to be clinically actionable or that are not commercially available. Continued investigation of tissue-based molecular biomarkers in the context of clinical trials was recommended.

Knezevic et al (2013) reported the analytical validity of the Oncotype DX Prostate assay. The research showed that the assay could accurately measure expression of the 12 cancer-related and five reference genes over a range of absolute RNA inputs (0.005-320 ng) with a detection limit of 0.05 ng/ml. The analytic accuracy showed average variation of less than 9.7% across all samples at RNA inputs typical of needle biopsy specimens. The amplification efficiency for the 17 genes in the test ranged from 88% to 100%, with a median of 93% (SD=6%) for all 17 genes in the assay. Analytic precision was assessed by examining variability between replicate results obtained using the same messenger RNA level of 5 ng mRNA was used to reflect the lowest 2.5 percentile of a tumor sample

## **Medical Policy: Laboratory Testing for the Screening and Management of Prostate Cancer**

### **Policy Number: 2.02.48**

**Page: 11 of 22**

of 0.023 cm<sup>3</sup>. When converted to GPS units (unit measure for reporting test results), the standard deviation for analytic precision was 1.86 GPS units (95% confidence interval [CI], 1.60 to 2.20) on the 100-unit scale. The standard deviation for reproducibility was 2.11 GPS units (95% CI, 1.83 to 2.50) on the 100-point scale.

#### **PROFESSIONAL GUIDELINE(S)**

National Comprehensive Cancer Network (NCCN) Guidelines for Prostate Cancer (V.2.2025) include the following recommendations for tissue-based tests for prostate cancer risk stratification/prognosis.

(NCCN Guidelines are updated frequently; refer to the source document for current recommendations.)

#### Decipher

Cover post-biopsy for NCCN very-low-, low-risk, favorable intermediate-, and unfavorable intermediate-risk prostate cancer in patients with at least 10 years life expectancy who have not received treatment for prostate cancer and are candidates for active surveillance or definitive therapy.

Cover post-radical prostatectomy (RP) for:

- pT2 with positive margins;
- any pT3 disease;
- rising PSA (above nadir).

#### Oncotype Dx Prostate and Prolaris

Cover post-biopsy for NCCN very-low-, low-risk, and favorable intermediate-risk prostate cancer in patients with at least 10 years life expectancy who have not received treatment for prostate cancer and are candidates for active surveillance or definitive therapy.

Tests that are not recommended:

- KI-67
- PTEN

#### Multimodal artificial intelligence (MMAI) (ArteraAI Prostate)

"Specific MMAI cut points have not been published to date to precisely guide specific treatment decisions. Rather, the test maybe used to provide more accurate risk stratification to enable improved shared decision-making."

American Urological Association (AUA)/ Society of Urologic Oncology (SUO) (2023) Guidelines for Early Detection of Prostate Cancer states:

- Clinicians should offer regular prostate cancer screening every two to four years to people aged 50 to 69 years. (Strong Recommendation; Evidence Level: Grade A)
- When screening for prostate cancer, clinicians should use PSA as the first screening test. (Strong

## Medical Policy: Laboratory Testing for the Screening and Management of Prostate Cancer

### Policy Number: 2.02.48

Page: 12 of 22

Recommendation; Evidence Level: Grade A)

- For people with a newly elevated PSA, clinicians should repeat the PSA prior to a secondary biomarker, imaging, or biopsy. (Expert Opinion)
- Clinicians should engage in shared decision making with people for whom prostate cancer screening would be appropriate and proceed based on a person's values and preferences. (Clinical Principle)
- Clinicians may begin prostate cancer screening and offer a baseline PSA test to people between ages 45 to 50 years. (Conditional Recommendation; Evidence Level: Grade B)

ASCO Guideline (2020) for Molecular Biomarkers in Localized Prostate Cancer is as follows:

- In patients with prostate cancer who are most likely to benefit from active surveillance: Commercially available molecular biomarkers (Oncotype Dx Prostate, Prolaris, Decipher, and ProMark) may be offered in situation in which the assay results, when considered with routine clinical factors, is likely to affect management (Type: Evidence based; Evidence quality: Intermediate; Recommendation: Moderate).
- To diagnose clinically significant prostate cancer: Commercially available molecular biomarkers (i.e., Oncotype Dx Prostate, Prolaris, Decipher, and ProMark) may be offered in situations in which the assay result, when considered as a whole with routine clinical factors, is likely to affect management. Routine ordering of molecular biomarkers was not recommended (Type: Evidence based; Evidence quality: Intermediate; Recommendation: Moderate).
- To guide the decision for adjuvant or salvage radiation postprostatectomy: The Expert Panel recommends consideration of a commercially available molecular biomarker (e.g., Decipher) may be offered in situations in which the assay result, when considered as a whole with routine clinical factors, is likely to affect management. In the absence of prospective clinical trial data, routine use of genomic biomarkers in the postprostatectomy setting to determine adjuvant versus salvage radiation or to initiate systemic therapies should not be offered (Type: Evidence based; Evidence quality: Intermediate; Strength of recommendation: Moderate).
- Comparative strengths and weaknesses of genomics or MRI in identifying clinically significant prostate cancer: In patients with newly diagnosed prostate cancer who are eligible for active surveillance, both MRI and genomics are intended to identify clinically significant cancers. Their use is endorsed only in situations in which the result, when considered with routine clinical factors, is likely to affect management. This may include, for instance, the initial management of patients who are potentially eligible for active surveillance, where each of these approaches may provide clinically relevant and actionable information. These tests may provide information independent of routine clinical parameters and independent of one another (Type: Informal consensus; benefits/harms ratio unknown; Evidence quality: Low; Strength of recommendation: Weak) (Eggener et al 2019).

#### REGULATORY STATUS

The United States Food and Drug Administration (FDA) approved the PSA test for use with the DRE

**Medical Policy: Laboratory Testing for the Screening and Management of Prostate Cancer**  
**Policy Number: 2.02.48**

**Page: 13 of 22**

to help detect prostate cancer in individuals aged 50 or older and to monitor patients with a history of prostate cancer.

The FDA indications for use of fPSA state the test is used along with a DRE and tPSA for individuals aged 50 years or older who have a PSA level between 4–10 ng/mL and a prostate gland that appears of normal size and texture.

**CODE(S)**

- Codes may not be covered under all circumstances.
- Code list may not be all inclusive (AMA and CMS code updates may occur more frequently than policy updates).
- (E/I)=Experimental/Investigational
- (NMN)=Not medically necessary/appropriate

**CPT Codes**

<b>Code</b>	<b>Description</b>
81313 (E/I)	PCA3/KLK3 (prostate cancer antigen 3 [non-protein coding]/kallikrein-related peptidase 3 [prostate specific antigen]) ratio (e.g., prostate cancer)
81539 (E/I)	Oncology (high-grade prostate cancer), biochemical assay of four proteins (total PSA, free PSA, intact PSA, and human Kallikrein-s[HK-2]), utilizing plasma or serum prognostic algorithm reported as a probability score (e.g., 4K Score)
81541	Oncology (prostate), mRNA gene expression profiling by real-time RT-PCR of 46 genes (31 content and 15 housekeeping), utilizing formalin-fixed paraffin-embedded tissue, algorithm reported as a disease-specific mortality risk score (Prolaris® Assay)
81542	Oncology (prostate), mRNA, microarray gene expression profiling of 22 content genes, utilizing formalin-fixed paraffin-embedded tissue, algorithm reported as metastasis risk score (Decipher Prostate Cancer Assay)
81551 (E/I)	Oncology (prostate), promoter methylation profiling by real-time PCR of 3 genes (GSTP1, APC, RASSF1), utilizing formalin-fixed paraffin-embedded tissue, algorithm reported as a likelihood of prostate cancer detection on repeat biopsy (Confirm MDx, MDx Health)
81479 (E/I)	Unlisted molecular pathology procedure
0005U (E/I)	Oncology (prostate) gene expression profile by real-time RT-PCR of 3 genes (ERG, PCA3, and SPDEF), urine, algorithm reported as risk score (ExosomeDx® Prostate (IntelliScore), Exosome Diagnostics, Inc)

**Medical Policy: Laboratory Testing for the Screening and Management of Prostate Cancer****Policy Number: 2.02.48****Page: 14 of 22**

<b>Code</b>	<b>Description</b>
0021U (E/I)	Oncology (prostate), detection of 8 autoantibodies (ARF 6, NKX3-1, 5'-UTR-BMI1, CEP 164, 3'-UTR-Ropporon, Desmocollin, AURKAIP-1, CSNK2A2), multiplexed immunoassay and flow cytometry serum, algorithm reported as risk score (Apify, Armune BioScience, Inc)
0047U	Oncology (prostate), mRNA, gene expression profiling by real-time RT-PCR of 17 genes (12 content and 5 housekeeping), utilizing formalin-fixed paraffin-embedded tissue, algorithm reported as a risk score Genomic Prostate Score (GPS) Test, MDxHealth)
0113U (E/I)	Oncology (prostate), measurement of PCA3 and TMPRSS2-ERG in urine and PSA in serum following prostatic massage, by RNA amplification and fluorescence-based detection, algorithm reported as risk score (MyProstateScore, Lynx DX)
0228U (E/I)	Oncology (prostate), multianalyte molecular profile by photometric detection of macromolecules adsorbed on nanosponge array slides with machine learning, utilizing first morning voided urine, algorithm reported as likelihood of prostate cancer (PanGIA Prostate, Genetics Institute of America, Entopsis, LLC).
0339U (E/I)	Oncology (prostate), mRNA expression profiling of HOXC6 and DLX1, reverse transcription polymerase chain reaction (RT-PCR), first-void urine following digital rectal examination, algorithm reported as probability of high-grade cancer (SelectMDx for Prostate Cancer, MDxHealth, Inc)
0343U (E/I)	Oncology (prostate), exosome-based analysis of 442 small noncoding RNAs (sncRNAs) by quantitative reverse transcription polymerase chain reaction (RT-qPCR), urine, reported as molecular evidence of no-, low-, intermediate- or high-risk of prostate cancer (miR Sentinel Prostate Cancer Test, miR Scientific, LLC)
0359U (E/I)	Oncology (prostate cancer), analysis of all prostate-specific antigen (PSA) structural isoforms by phase separation and immunoassay, plasma, algorithm reports risk of cancer (IsoPSA, Cleveland Diagnostics)
0376U (E/I)	Oncology (prostate cancer), image analysis of at least 128 histologic features and clinical factors, prognostic algorithm determining the risk of distant metastases, and prostate cancer-specific mortality, includes predictive algorithm to androgen deprivation-therapy response, if appropriate (ArteraAI Prostate Test, Artera Inc)

## Medical Policy: Laboratory Testing for the Screening and Management of Prostate Cancer

Policy Number: 2.02.48

Page: 15 of 22

Code	Description
0403U (E/I)	Oncology (prostate), mRNA, gene expression profiling of 18 genes, first-catch urine, algorithm reported as percentage of likelihood of detecting clinically significant prostate cancer (MyProstateScore 2.0, LynxDx)
0424U (E/I)	Oncology (prostate), exosome-based analysis of 53 small noncoding RNAs (sncRNAs) by quantitative reverse transcription polymerase chain reaction (RT-qPCR), urine, reported as no molecular evidence, low-, moderate- or elevated-risk of prostate cancer (miR Sentinel Prostate Test, miR Scientific LLC)
0433U (E/I)	Oncology (prostate), 5 DNA regulatory markers by quantitative PCR, whole blood, algorithm, including prostate-specific antigen, reported as likelihood of cancer (Episwitch Prostate Screening Test, Oxford BioDynamics Inc.)
0495U (E/I)	Oncology (prostate), analysis of circulating plasma proteins (tPSA, fPSA, KLK2, PSP94, and GDF15), germline polygenic risk score (60 variants), clinical information (age, family history of prostate cancer, prior negative prostate biopsy), algorithm reported as risk of likelihood of detecting clinically significant prostate cancer (Stockholm3, BioAgilytix Diagnostics)
0497U (E/I)	Oncology (prostate), mRNA gene expression profiling by real time RT PCR of 6 genes (FOXM1, MCM3, MTUS1, TTC21B, ALAS1, and PPP2CA), utilizing formalin fixed paraffin embedded (FFPE) tissue, algorithm reported as a risk score for prostate cancer (OncoAssure Prostate, Diacarta, Inc)
0591U (E/I)	Oncology (prostate cancer), biochemical analysis of 3 proteins (total PSA, free PSA, and HE4), plasma, serum, prognostic algorithm incorporating 3 proteins and digital rectal examination, results reported as a probability score for clinically significant prostate cancer (Effective 10/01/25)
0534U (E/I)	Oncology (prostate), microRNA, single-nucleotide polymorphisms (SNPs) analysis by RT-PCR of 32 variants, using buccal swab, algorithm reported as a risk score (PROSTOXT ultra, MiraDx, Inc) (Effective 04/01/25)
0550U (E/I)	Oncology (prostate), enzyme-linked immunosorbent assays (ELISA) for total prostate-specific antigen (PSA) and free PSA, serum, combined with age, previous negative prostate biopsy status, digital rectal examination findings, prostate volume, and image and data reporting of the prostate, algorithm reported as a risk score for the presence of high-grade prostate cancer (ClarityDx Prostate, Protean BioDiagnostics) (Effective 04/01/25)

## Medical Policy: Laboratory Testing for the Screening and Management of Prostate Cancer

Policy Number: 2.02.48

Page: 16 of 22

Code	Description
0572U (E/I)	Oncology (prostate), high-throughput telomere length quantification by FISH, whole blood, diagnostic algorithm reported as risk of prostate cancer (Effective 07/01/25)

Copyright © 2025 American Medical Association, Chicago, IL

### HCPCS Codes

Code	Description
Not Applicable	

### ICD10 Codes

Code	Description
C61	Malignant neoplasm of prostate
D07.5	Carcinoma in situ of prostate
D29.1	Benign neoplasm of prostate
D40.0	Neoplasm of uncertain behavior of prostate
N42.30	Unspecified dysplasia of prostate
N42.31	Prostatic intraepithelial neoplasm
N42.32	Atypical small acinar proliferation of prostate
N42.39	Other dysplasia of prostate
R97.20	Elevated prostate specific antigen (PSA)
R97.21	Rising PSA following treatment for malignant neoplasm of prostate
Z12.5	Encounter for screening for malignant neoplasm of prostate
Z85.46	Personal history of malignant neoplasm of prostate

### REFERENCES

American College of Preventive Medicine. Practice policy statement. Screening for prostate cancer in American men. Am J Prev Med. 1998;15(1):81-4.

American Urological Association. Prostate-specific-antigen (PSA) best practice policy. Oncol. 2000 Feb;14(2).



## **Medical Policy: Laboratory Testing for the Screening and Management of Prostate Cancer**

**Policy Number: 2.02.48**

**Page: 17 of 22**

Auprich M., et al. Contemporary role of prostate cancer antigen 3 in the management of prostate cancer. *Eur Ryol.* 2011 Nov;60(5):1045-54.

Auvinen A, et al. Test sensitivity of prostate-specific antigen in the Finnish randomised prostate cancer screening trial. *Int J Cancer.* 2004 Oct 10;111(6):940-3.

Barry MJ. Prostate-specific-antigen testing for early diagnosis of prostate cancer. *NEJM* 2001 May 3;344(18):1373-7.

Bellei E, et al. Research of Prostate Cancer Urinary Diagnostic Biomarkers by Proteomics: The Noteworthy Influence of Inflammation. *Diagnostics (Basel).* 2023 Apr 1;13(7):1318.

Björnebo L, et al. Biomarker vs MRI-enhanced strategies for prostate cancer screening: the sthlm3-mri randomized clinical trial. *JAMA Netw Open.* 2024 Apr 1;7(4):e247131.

Braun AE, et al. The impact of genomic biomarkers on a clinical risk prediction model for upgrading/upstaging among men with favorable-risk prostate cancer. *Cancer.* 2024 May 15;130(10):1766-1772.

Brooks MA, et al. GPS assay association with long-term cancer outcomes: twenty-year risk of distant metastasis and prostate cancer-specific mortality. *JCO Precision Oncol.* 2021 Feb;5:442-449.

Chou R, et al. Screening for prostate cancer: a review of the evidence for the U.S. Preventive Services Task Force. *Ann Intern Med.* 2011;155:762-71.

Choudhury AD, et al. The role of genetic markers in the management of prostate cancer. *Eur Urol.* 2012 Oct;62(4):577-87.

Crawford ED, et al. Diagnostic performance of PCA3 to detect prostate cancer in men with increased prostate specific antigen: a prospective study of 1,962 cases. *J Urol.* 2012 Nov;188(5):1726-31.

Darst BF, et al. The four-kallikrein panel is effective in identifying aggressive prostate cancer in a multiethnic population. *Cancer Epidemiol Biomarkers Prev.* 2020 May 8.

De la Calle CM, et al. Clinical utility of 4Kscore, ExosomeDx and magnetic resonance imaging for the early detection of high-grade prostate cancer. *The Journal of Urology.* 2021 Feb;205:452-460.

Del Pino-Sedeño T, et al. Molecular Biomarkers for the Detection of Clinically Significant Prostate Cancer: A Systematic Review and Meta-analysis. *Eur Urol Open Sci.* 2022 Nov 10;46:105-127.

Dess RT and Spratt DE. Why the UK should consider gene expression testing in prostate cancer. *Clin Oncol (R Coll Radiol).* 2020 Mar;32(3):149-155.

Durand X, et al. The value of urinary prostate cancer gene 3 (PCA3) scores in predicting pathological features at radical prostatectomy. *BJU Int.* 2012 Jul;110(1):43-9.

Egger SE, et al. Molecular biomarkers in localized prostate cancer: ASCO Guideline. *J Clin Oncol.* 2020 May a;38(13):1274-1494.

Esteva A, et al. Prostate cancer therapy personalization via multi-modal deep learning on randomized phase III clinical trials. *NPJ Digit Med.* 2022 Jun 8;5(1):71.

Fine ND, et al. Genomic classifiers for treatment selection in newly diagnosed prostate cancer. *BJU*

## **Medical Policy: Laboratory Testing for the Screening and Management of Prostate Cancer**

### **Policy Number: 2.02.48**

**Page: 18 of 22**

Int. 2019 May 4 [Epub ahead of print].

Gittelman M., et al. PROGENSA®PCA3 molecular urine test as a predictor of repeat prostate biopsy outcome in men with previous negative biopsies: a prospective multicenter clinical study. *J Urol*. 2013 Jul;190(1):64-9.

Hunter E, et al. Development and validation of blood-based predictive biomarkers for response to PD-1/PD-L1 checkpoint inhibitors: evidence of a universal systemic core of 3d immunogenetic profiling across multiple oncological indications. *Cancers (Basel)*. 2023 May 10;15(10):2696.

Ilic D, et al. Screening for prostate cancer. *Cochrane database of systematic reviews 2006, Issue 3*. Art. No.: CD004720.

Kawada T, et al. Diagnostic accuracy of liquid biomarkers for clinically significant prostate cancer detection: a systematic review and diagnostic meta-analysis of multiple thresholds. *Eur Urol Oncol*. 2024 Aug;7(4):649-662.

Kearns JT, et al. PSA screening, prostate biopsy, and treatment of prostate cancer in the years surrounding the USPSTF recommendation against prostate cancer screening. *Cancer*. 2018.

Knezevic D, et al. Analytical validation of the Oncotype DX prostate cancer assay – a clinical RT-PCR assay optimized for prostate needle biopsies. *BMC Genomics*. 2013;14:690.

Kohaar I, et al. A rich array of prostate cancer molecular biomarkers: opportunities and challenges. *Int J Mol Sci*. 2019 20(8), 1813.

Lamy PJ, et al. Prognostic biomarkers used for localized prostate cancer management: a systematic review. *Eur Urol Focus*. 2018 Dec;4(6):790-803.

Lin DW, et al. 17-gene genomic prostate score test results in the Canary Prostate Active Surveillance Study (PASS) cohort. *J Clin Oncol*. 2020 May 10;38(14):1549-1557.

Lin DW, et al. Urinary TMPRSS2: ERG and PCA3 in an active surveillance cohort: results from a baseline analysis in the Canary Prostate Active Surveillance Study. *Clin Cancer Res*. 2013 May 1;19(9):2442-2450.

Martin DT, et al. Prostate cancer genomic classifier relates more strongly to Gleason grade group than prostate imaging reporting and data system score in multiparametric prostate magnetic resonance imaging-ultrasound fusion targeted biopsies. *Am J Roent*. 2019 Jun;212(6):1244-1252.

Merola R, et al. PCA3 in prostate cancer and tumor aggressiveness detection on 407 high-risk patients: a National Cancer Institute experience. *J Exp Clin Cancer Res*. 2014 Feb 6;34(1):15.

Narayan VM. A critical appraisal of biomarkers in prostate cancer. *World J Urol*. 2020 Mar;38(3):547-554.

National Cancer Institute (NCI) Cancer Information Service (CIS) [Internet]. Cancer facts. Questions and answers about the prostate-specific antigen (PSA) test. [Reviewed 2022 Mar 11; accessed 2025 Aug 27]. Available from: <http://www.cancer.gov/cancertopics/factsheet/Detection/PSA>

National Cancer Institute (NCI) [Internet]. PDQ® Cancer Information Summary. Prostate Cancer (PDQ®): Treatment: Health Professional. 2005b. Bethesda (MD): National Cancer Institute. Updated

## **Medical Policy: Laboratory Testing for the Screening and Management of Prostate Cancer**

### **Policy Number: 2.02.48**

**Page: 19 of 22**

2024 Mar 07. [accessed 2025 Aug 27]. Available from:

<http://www.cancer.gov/cancertopics/pdq/screening/prostate/healthprofessional>

National Comprehensive Cancer Network (NCCN) [Internet]. Clinical practice guidelines in oncology. Prostate Cancer. V.4.2024. [accessed 2025 Aug 27]. Available from:

[https://www.nccn.org/professionals/physician\\_gls/pdf/prostate\\_detection.pdf](https://www.nccn.org/professionals/physician_gls/pdf/prostate_detection.pdf)

National Comprehensive Cancer Network [Internet]. Clinical practice guidelines in oncology. Prostate cancer early detection. Version 2.2024. [accessed 2025 Aug 27]. Available from:

[http://www.nccn.org/professionals/physician\\_gls/pdf/prostate\\_detection.pdf](http://www.nccn.org/professionals/physician_gls/pdf/prostate_detection.pdf)

New York State Consolidated Insurance Law. Article 32 § 3216 (i)(11-a).

Osses D, et al. Prediction medicine: biomarkers, risk calculators and magnetic resonance imaging as risk stratification tools in prostate cancer diagnosis. *Int J Mol Sci.* 2019 20(7), 1637.

Pchejetski D, et al. Circulating Chromosome Conformation Signatures Significantly Enhance PSA Positive Predicting Value and Overall Accuracy for Prostate Cancer Detection. *Cancers (Basel).* 2023 Jan 29;15(3):821.

Pritchard CC, et al. Inherited DNA-Repair Gene Mutations in Men with Metastatic Prostate Cancer. *N Engl J Med.* 2016 Aug 4;375(5):443-53.

Saltman A, et al. Prostate cancer biomarkers and multiparametric MRI: is there a role for both in prostate cancer management? *Ther Adv Urol.* 2021 13:1-11.

Schweizer MT, et al. Genomic characterization of prostatic ductal adenocarcinoma identifies a high prevalence of DNA repair gene mutations. *JCO Precis Oncol.* 2019;3:PO.18.00327.

Schwen ZR, et al. Prostate Health Index and multiparametric magnetic resonance imaging to predict prostate cancer grade reclassification in active surveillance: PHI+mpMRI to predict grade reclassification in AS. *BJU Int.* 2020 126(3), 373–378.

Shore ND, et al. A comparison of prostate health index, total PSA, %free PSA, and proPSA in a contemporary US population—The MiCheck-01 prospective trial. *Urol Oncol.* 2020 Aug;38(8):683.e1-683.e10.

Spratt DE, et al. Artificial intelligence predictive model for hormone therapy use in prostate cancer. *NEJM Evid.* 2023 Aug;2(8):EVIDoa2300023.

Spratt DE, et al. Meta-analysis of individual patient-level data for a multimodal artificial intelligence biomarker in high-risk prostate cancer: results from six NRG/RTOG phase 3 randomized trials. *Eur Urol.* 2024 Oct;86(4):369-371.

Ström P, et al. The stockholm-3 model for prostate cancer detection: algorithm update, biomarker contribution, and reflex test potential. *Eur Urol.* 2018 Aug;74(2):204-210.

Ross AE, et al. External validation of a digital pathology-based multimodal artificial intelligence architecture in the NRG/RTOG 9902 phase 3 trial. *Eur Urol Oncol.* 2024 Oct;7(5):1024-1033.

Tan GH, et al. Smarter screening for prostate cancer. *World J Urol.* 2019 37(6), 991–999.

## Medical Policy: Laboratory Testing for the Screening and Management of Prostate Cancer

Policy Number: 2.02.48

Page: 20 of 22

Thompson IM, et al. Prevalence of prostate cancer among men with a prostate-specific antigen level < or =4.0 ng per milliliter. NEJM 2004 May 27;350(22):2239-46. Erratum: NEJM. 2004 Sep 30;351(14):1470.

Tidd-Johnson A, et al. Prostate cancer screening: Continued controversies and novel biomarker advancements. Curr Urol. 2022 Dec;16(4):197-206.

Urological Sciences Research Foundation [Internet]. PCA3: A Genetic Marker of Prostate Cancer. Aug 2003; updated 2007. [accessed 2025 Aug 27]. Available from:

<http://www.usrf.org/news/PCA3/PCA3.html>

US Preventive Services Task Force Screening for prostate cancer: U.S. Preventive Services Task Force Recommendation Statement Prostate Cancer Screening [Internet]. [accessed 2025 Aug 27]. Available from: <https://www.uspreventiveservicestaskforce.org/uspstf/recommendation/prostate-cancer-screening>

US Preventive Services Task Force Screening for prostate cancer: U.S. Preventive Services Task Force recommendation statement. 2008 Aug 5;149(3):185-91.

Van Leenders GJLH, et al ISUP Grading Workshop Panel Members. The 2019 International Society of Urological Pathology (ISUP) Consensus Conference on Grading of Prostatic Carcinoma. Am J Surg Pathol. 2020 Aug;44(8):e87-e99.

Vertosick EA, et al. Prespecified 4-Kallikrein Marker Model at Age 50 or 60 for Early Detection of Lethal Prostate Cancer in a Large Population Based Cohort of Asymptomatic Men Followed for 20 Years. J Urol. 2020 204(2), 281–288.

Wei JT, et al. Early detection of prostate cancer: AUA/SUO guideline part I: prostate cancer screening. J Urol. 2023 Jul;210:46-53.

Wei JT, et al. Early detection of prostate cancer: AUA/SUO guideline part II: considerations for a prostate biopsy. J Urol. 2023 Jul;210:54-63.

Zhang G, et al. Assessment on clinical value of prostate health index in the diagnosis of prostate cancer. Cancer Med. 2019 Sep; 8(11):5089–5096.

Zhong H, et al. Identification of blood protein biomarkers associated with prostate cancer risk using genetic prediction models: analysis of over 140,000 subjects. Hum Mol Genet. 2023 Nov 3;32(22):3181-3193.

### SEARCH TERMS

Not Applicable

### CENTERS FOR MEDICARE AND MEDICAID SERVICES (CMS)

[Prostate Cancer Screening Tests \(NCD 210.1\)](#) [accessed 2025 Jun 27]

[Molecular Pathology Procedures \(LCD L35000\)](#) [accessed 2025 Jun 27]

[MOLDX: Prostate Cancer Genomic Classifier Assay for Men with Localized Disease \(LCD L38339\)](#)

# Medical Policy: Laboratory Testing for the Screening and Management of Prostate Cancer

Policy Number: 2.02.48

Page: 21 of 22

[accessed 2025 Jun 27]

Gene expression analysis for prostate cancer is not addressed in National or Regional Medicare coverage determinations or policies.

However, please refer to the Medicare Managed Care Manual/Chapter 4: Benefits and Beneficiary Protections (Rev.121, Issued: 04-22-16)/Section 90 National and Local Coverage Determinations/Subsection 90.4.1 MAC with Exclusive Jurisdiction over a Medicare Item or Service:

In some instances, one Medicare A/B MAC processes all of the claims for a particular Medicare-covered item or service for all Medicare beneficiaries around the country. This generally occurs when there is only one provider of a particular item or service (for example, certain pathology and lab tests furnished by independent laboratories). In this situation, MA plans must follow the coverage policy reflected in an LCD issued by the A/B MAC that enrolled the provider and processes all the Medicare claims for that item or service.

<https://www.cms.gov/Regulations-and-Guidance/Guidance/Manuals/Internet-Only-Manuals-IOMs-Items/CMS019326> [accessed 2025 Aug 27]

## PRODUCT DISCLAIMER

- Services are contract dependent; if a product does not cover a service, medical policy criteria do not apply.
- If a commercial product (including an Essential Plan or Child Health Plus product) covers a specific service, medical policy criteria apply to the benefit.
- If a Medicaid product covers a specific service, and there are no New York State Medicaid guidelines (eMedNY) criteria, medical policy criteria apply to the benefit.
- If a Medicare product (including Medicare HMO-Dual Special Needs Program (DSNP) product) covers a specific service, and there is no national or local Medicare coverage decision for the service, medical policy criteria apply to the benefit.
- If a Medicare HMO-Dual Special Needs Program (DSNP) product DOES NOT cover a specific service, please refer to the Medicaid Product coverage line.

## POLICY HISTORY/REVISION

### Committee Approval Dates

08/20/15, 12/15/16, 02/15/18, 12/20/18, 12/19/19, 02/18/21, 12/16/21, 12/22/22, 09/21/23, 09/19/24, 09/18/25

### Date

### Summary of Changes

09/18/25

- Annual review. Policy statements removed regarding PSA, DRE, and PAP as codes are no longer managed and it is considered standard of care. Added investigational code 0591U.

**Medical Policy: Laboratory Testing for the Screening and Management of Prostate Cancer**

**Policy Number: 2.02.48**

**Page: 22 of 22**

01/01/25	<ul style="list-style-type: none"><li>• Summary of changes tracking implemented.</li></ul>
08/20/15	<ul style="list-style-type: none"><li>• Original effective date</li></ul>