Local Coverage Determination (LCD):
Bladder/Urothelial Tumor Markers (L36680)

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Contractor Information

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LCD Information

Document Information

Original Effective Date
For services performed on or after 05/16/2017

Revision Effective Date
N/A

Revision Ending Date
N/A

Retirement Date
N/A

Notice Period Start Date
03/31/2017

Notice Period End Date
05/15/2017

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Gross painless hematuria is often the first manifestation of a urothelial tumor. Since the degree of hematuria bears no relation to the seriousness of the underlying disease, the microscopic finding of blood in the urine is a serious symptom until significant pathology has been excluded.

At this time, there is no published consensus from the following national organizations: National Comprehensive Cancer Network (NCCN), American Society of Clinical Oncology (ASCO), American Urological Association (AUA) and the International Bladder Cancer Consensus Group (IBCCG) regarding the management of persistent asymptomatic microscopic hematuria. Due to insufficient supporting data, the AUA’s 2001 best practices policy could not recommend routine use of voided urinary markers in the evaluation of patients with microscopic hematuria.\(^3\)

Recommended surveillance schedules for patients with a previous negative evaluation for unexplained microscopic hematuria include annual urinalysis and voided urinary cytology until the hematuria resolves, or for
Scientific studies demonstrate the sensitivity of BTA and NMP-22 are superior to urinary cytology. Studies affirm the adjunctive value of BTA stat® and NMP-22 in suspected and known bladder cancer in conjunction with cystoscopy. However, false positive results occur more frequently in the presence of hematuria, nephrolithiasis, recent GU instrumentation, inflammation and other urological malignancies. Administration of BCG within 2 years of testing decreases specificity to 28%.

The DNA probe assay has high sensitivity (81%) and specificity (96%) for high grade tumors but lower sensitivity (36-57%) for low grade and stage tumors. The assay specificity approaches that of cytology, and can be utilized in patients recently treated with intravesical bacillus Calmette-Guerin (BCG). This can result in a positive UroVysion® test with a negative study for UC. This assay has also been shown to be useful in predicting tumor recurrence following BCG therapy.

At present the IBCCG has recommended that tumor markers be used in conjunction with cystoscopy. They also concluded that routine screening for bladder cancer is not cost-effective. The US Preventive Services Task Force concluded bladder tumor markers do not have a proven role in screening of asymptomatic patients for early detection of bladder cancer. NCCN, ASCO, and AUA are silent regarding the utilization of these bladder tumor markers.

**Surveillance Tests**

- **BTA (bladder tumor antigen) stat®** - a qualitative CLIA-waved test that identifies a human complement factor H-related protein produced by several human bladder cell lines
- **The ImmunoCyt™** test is cleared for monitoring bladder cancer recurrence only in conjunction with cytology and cystoscopy. The assay uses fluorescent labeled antibodies to 3 markers (carcinoembryonic antigen, and musicians LDQ10 and M344) commonly found on malignant exfoliated urothelial cells. The ImmunoCyt™ assay has also been shown to be more sensitive than urine cytology.

**LIMITATIONS**

Cystoscopy in conjunction with bladder tumor markers is standard practice to evaluate patients with symptoms suggesting bladder cancer and to monitor treated patients for recurrence or progression. Exceptions, such as high grade bladder cancers s/p radical cystectomy, do exist which preclude cystoscopy prior to testing. Testing indications, limitations and frequency do not apply to urine cytology.
Bladder cancer tumor markers performed by any technology, immunoassay, molecular or FISH testing are not covered for screening of all patients with hematuria. Bladder tumor markers are not expected to be performed until other diagnostic studies fail to identify the etiology of the hematuria. Urine cytology is not considered a bladder tumor marker.

All other bladder cancer marker assays, including but not limited to the following, regardless of the methodology are considered investigational and not covered by Medicare:

- BCLA-4
- BLCA-1
- Hyaluronic acid
- Hyaluronidase
- Lewis X antigen
- Microsatellite markers
- Quanticyt
- Soluble FAS TATI (tumor associated trypsin inhibitor)
- Soluble e-cadherin
- Survivin
- Telomerase
- UBC™ Rapid Test (urinary bladder cancer test for cytokeratins 8 and 18)

Coding Information

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.

N/A

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.

99999 Not Applicable

CPT/HCPCS Codes

Group 1 Paragraph: N/A

Group 1 Codes:

IMMUNOASSAY FOR TUMOR ANTIGEN, QUALITATIVE OR SEMIQUANTITATIVE (EG, BLADDER TUMOR ANTIGEN) 86294
IMMUNOASSAY FOR TUMOR ANTIGEN, OTHER ANTIGEN, QUANTITATIVE (EG, CA 50, 72-4, 549), EACH 86316
NUCLEAR MATRIX PROTEIN 22 (NMP22), QUALITATIVE 86386
CYTOPATHOLOGY, IN SITU HYBRIDIZATION (EG, FISH), URINARY TRACT SPECIMEN WITH MORPHOMETRIC ANALYSIS, 3-5 MOLECULAR PROBES, EACH SPECIMEN; MANUAL CYTOPATHOLOGY, IN SITU HYBRIDIZATION (EG, FISH), URINARY TRACT SPECIMEN WITH MORPHOMETRIC ANALYSIS, 3-5 MOLECULAR PROBES, EACH SPECIMEN; USING COMPUTER-ASSISTED TECHNOLOGY 88120

ICD-10 Codes that Support Medical Necessity

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### General Information

**Associated Information**

**Documentation Requirements**

The medical record must clearly identify the number and frequency of bladder marker testing.

Medical record documentation must be legible, must be maintained in the patient’s medical record (hard copy or electronic copy), and must meet the criteria contained in this LCD and be made available to the A/B MAC upon request.

**Utilization Guidelines**

- Only one bladder cancer test per single date of service (e.g., FISH then reflex cytology) are considered reasonable and necessary.
• For high risk patients with persistent hematuria and a negative FISH assay following a comprehensive diagnostic (no tumor identified) workup, ONE repeat FISH testing in conjunction with cystoscopy is considered reasonable and necessary within 1 year of the original attempted diagnosis.

Follow-up after initial/most recent occurrence and treatment

• Maximum of four (4) bladder tumor marker studies per year for years 1-2
• Maximum of three (3) bladder tumor marker studies per year for year 3
• Maximum of two (2) bladder tumor marker studies for year 4 and
• Maximum of one (1) bladder tumor marker studies follow-up annually for up to 15 years.

Sources of Information and Basis for Decision

1. BTA stat® test package insert.


Keywords

- Bladder
- Tumor
- Markers
- UroVysion®
- NMP-22
- BTA
- Trak
- ImmunoCyt™
- 86294
- 86316
- 86386
- 88120
- 88121

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