## **Oncology Clinical Pathways** Bladder Cancer (Urothelial Carcinoma Only)

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## **Bladder Cancer – Presumptive Conditions**

VA automatically presumes that certain disabilities were caused by military service. This is because of the unique circumstances of a specific Veteran's military service. If a presumed condition is diagnosed in a Veteran within a certain group, they can be awarded disability compensation.

Vietnam Veterans – Agent Orange Exposure or Specified Locations

Bladder cancer

Atomic Veterans – Exposure to Ionizing Radiation

Cancer of the urinary tract

#### Gulf War and Post 9/11 Veterans

If the patient served on or after Sept. 11, 2001, in Afghanistan, Djibouti, Egypt, Jordan, Lebanon, Syria, Uzbekistan, or Yemen or if the patient served in the \*Southwest Asia theater of operations, or Somalia, on or after Aug. 2, 1990, specific conditions include:

• Urinary bladder, ureter, and related genitourinary cancers

\*The Southwest Asia theater of operations refers to Iraq, Kuwait, Saudi Arabia, the neutral zone between Iraq and Saudi Arabia, Bahrain, Qatar, the United Arab Emirates, Oman, the Gulf of Aden, the Gulf of Oman, the Persian Gulf, the Arabian Sea, the Red Sea, and the airspace above these locations.

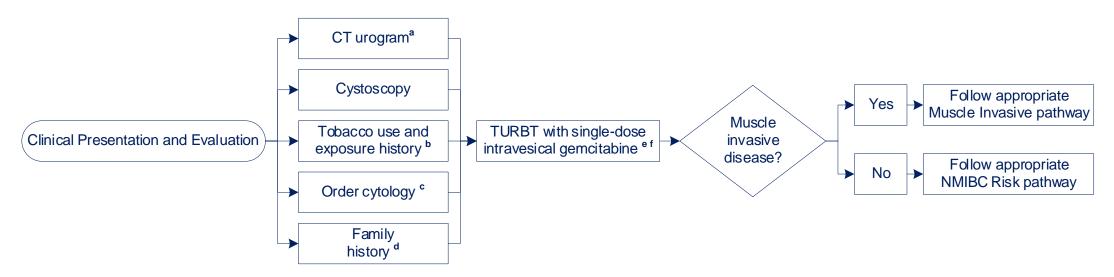
For more information, please visit <u>U.S. Department of Veterans Affairs - Presumptive Disability Benefits (va.gov)</u>; <u>VA News - Presumptive for</u> <u>Service Connection Jan 08 2025</u>; <u>eCFR :: 38 CFR 3.320a -- Presumptive service connection for bladder, ureter, and related genitourinary</u> <u>cancers.</u>







### **Bladder Cancer – Clinical Presentation and Evaluation**



Clinical trial(s) always considered on pathway. For assistance finding a clinical trial, email CancerClinicalTrialsNavigation@va.gov.

- <sup>a</sup> CT Urogram in patients unable to receive IV contrast, order alternative upper tract imaging
- <sup>b</sup> Exposure includes Agent Orange, burn pits, and other occupational/environmental toxins
- <sup>c</sup> Cytology order if results would change clinical management
- <sup>d</sup> Family History family or personal malignancy history, suspicion for Lynch syndrome, or age under 60 years
- <sup>e</sup> TURBT with EUA include blue-light cystoscopy if clinically appropriate
- <sup>f</sup> Intravesical Gemcitabine for known or presumed low grade

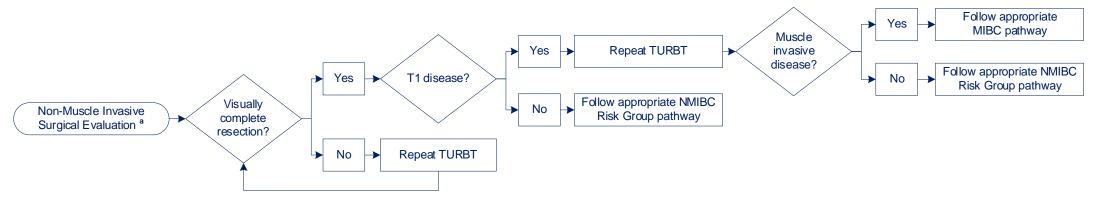
**TURBT** Transurethral Resection of Bladder Tumor **EUA** Exam Under Anesthesia







#### **Bladder Cancer – Non-Muscle Invasive Surgical Evaluation**



Clinical trial(s) always considered on pathway. For assistance finding a clinical trial, email CancerClinicalTrialsNavigation@va.gov.

<sup>a</sup> Variant Histology includes micropapillary, nested, plasmacytoid, neuroendrocrine, sarcomatoid, squamous or glandular predominant

TURBT Transurethral Resection of Bladder Tumor

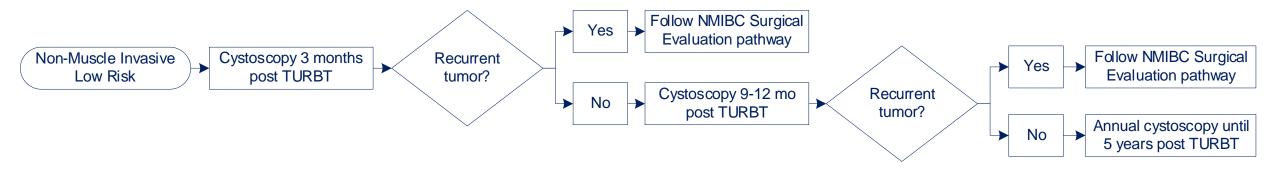
American Urological Association Non-Muscle Invasive Risk Stratification					
Low Risk	Intermediate Risk	High Risk			
<ul> <li>Papillary urothelial neoplasm of low malignant potential <i>Or</i></li> <li>Low grade urothelial carcinoma         <ul> <li>Ta and</li> <li>≤3 cm and</li> <li>Solitary</li> </ul> </li> </ul>	<ul> <li>Low grade urothelial carcinoma         <ul> <li>T1 or</li> <li>&gt;3 cm or</li> <li>Multifocal or</li> <li>Recurrence within 1 year</li> </ul> </li> <li>Or</li> <li>High grade urothelial carcinoma         <ul> <li>Ta and</li> <li>&lt;3 cm and</li> <li>Solitary</li> </ul> </li> </ul>	<ul> <li>High grade urothelial carcinoma         <ul> <li>CIS or</li> <li>T1 or</li> <li>&gt;3 cm or</li> <li>Multifocal</li> <li>Or</li> </ul> </li> <li>Very high risk features (any)         <ul> <li>BCG unresponsive</li> <li>Variant histologies <sup>a</sup></li> <li>Lymphovascular invasion</li> <li>Prostatic urethral involvement</li> </ul> </li> </ul>			







#### **Bladder Cancer – Non-Muscle Invasive Low Risk**



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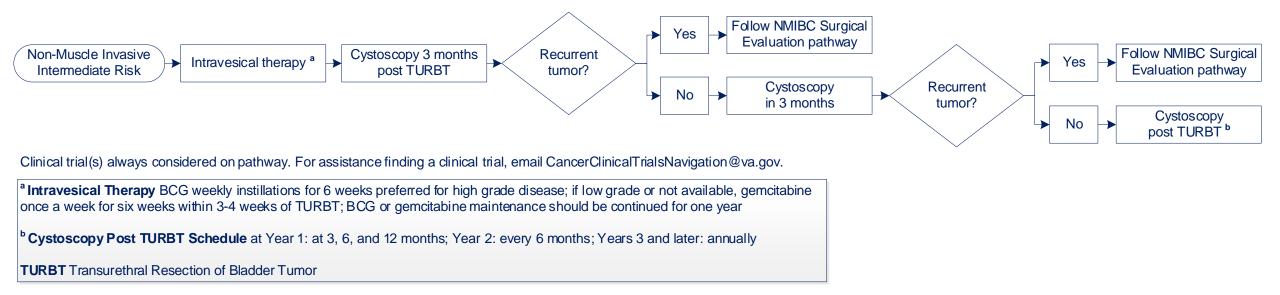
**TURBT** Transurethral Resection of Bladder Tumor







#### **Bladder Cancer – Non-Muscle Invasive Intermediate Risk**

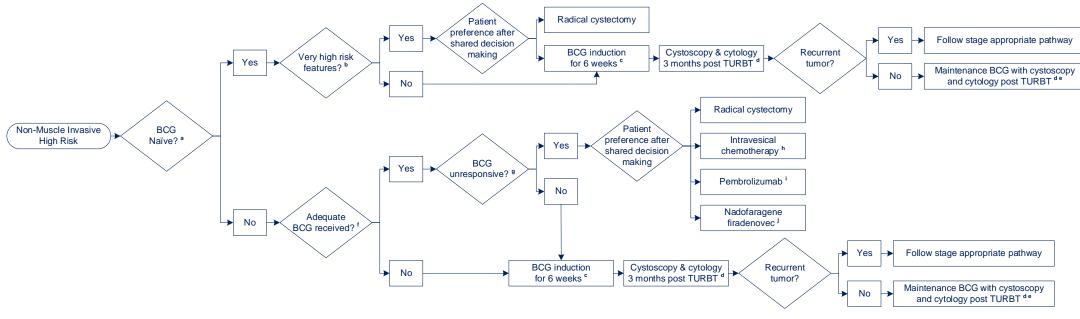








#### **Bladder Cancer – Non-Muscle Invasive High Risk**



#### Clinical trial(s) always considered on pathway. For assistance finding a clinical trial, email CancerClinicalTrialsNavigation @va.gov.

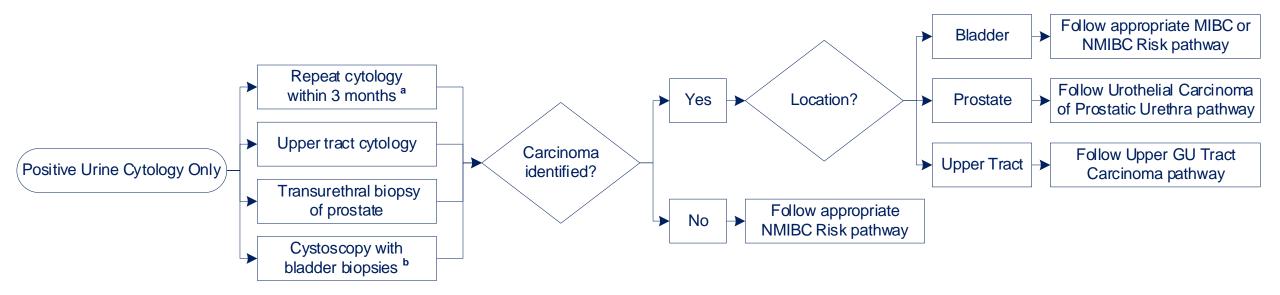
<sup>a</sup> BCG Naïve BCG non-exposed or greater than one year since last BCG
 <sup>b</sup> Very High Risk Features include variant histologies, lymphovascular invasion, or prostatic urethral invasion
 <sup>c</sup> BCG Induction only one repeat induction BCG course
 <sup>d</sup> Cystoscopy and Cytology Post TURBT surveillance schedule: years 1-2: every 3 months; years 3-4: every 6 months; years 25: annually
 <sup>e</sup> BCG Maintenance 3 week instillations at 3, 6, 12, 18, 24, 30, and 36 months (3 years) after start of induction BCG
 <sup>f</sup> Adequate BCG defined as ≥5 induction doses and ≥2 maintenance doses
 <sup>g</sup> BCG Unresponsive defined as persistent high-grade disease or recurrence within 6 months of receiving at least 2 courses of intravesical BCG (at least 5 of 6 induction and at least 2 of 3 maintenance doses of BCG)
 <sup>h</sup> Intravesical Chemotherapy genecitabine and docetaxel preferred
 <sup>i</sup> Pembrolizumab option for treatment of patients with BCG-unresponsive, high-risk NMIBC with Tis tumors who are ineligible for or have elected not to undergo cystectomy
 <sup>i</sup> Nadofaragene Firadenovec all criteria must be met: BCG unresponsive, non-muscle invasive bladder cancer, ^1 Carcinoma in situ (CIS) with or without papillary tumors (Ta or T1 high-grade tumors)
 BCG Bacillus Calmete Guerin
 TURBT Transurethral Resection of Bladder Tumor







#### **Bladder Cancer – Positive Urine Cytology Only**



Clinical trial(s) always considered on pathway. For assistance finding a clinical trial, email CancerClinicalTrialsNavigation@va.gov.

<sup>a</sup> Cytology review clinical history with cytopathologist

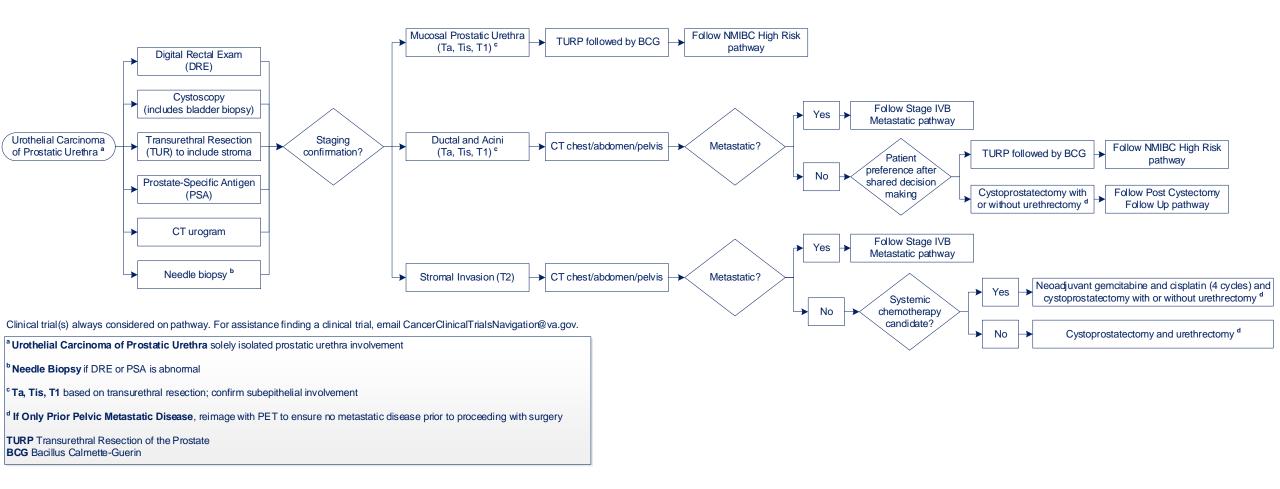
<sup>b</sup> Cystoscopy use enhanced technology if available







#### **Bladder Cancer – Urothelial Carcinoma of Prostatic Urethra**

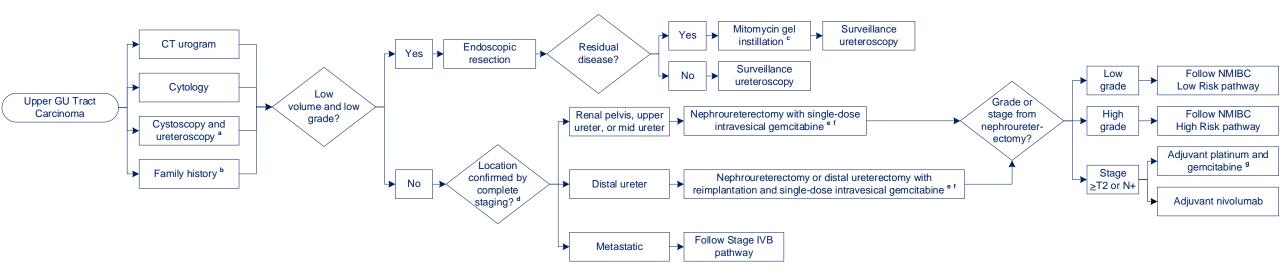








#### **Bladder Cancer – Upper GU Tract Carcinoma**



Clinical trial(s) always considered on pathway. For assistance finding a clinical trial, email CancerClinicalTrialsNavigation@va.gov.

<sup>a</sup> Cystoscopy and Ureteroscopy may include selective washing <u>+</u> single-dose intravesical gemcitabine

<sup>b</sup> Family History family or personal malignancy history, suspicion for Lynch syndrome; age under 60 years

<sup>c</sup> Mitomycin Gel Instillation use for ureteral tumors is off-label

<sup>d</sup> Complete Staging to include recent chest and abdominal cross-sectional imaging

<sup>e</sup> Consider Neoadjuvant Gemcitabine and Cisplatin for select high grade patients; consider Tumor Board discussion

<sup>f</sup> For High Grade include regional lymphadenectomy

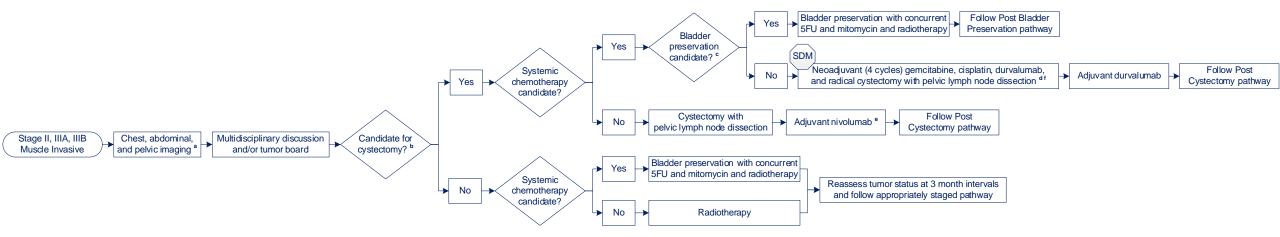
<sup>9</sup> Adjuvant Therapy Options include cisplatin if renal function allows and gemcitabine; carboplatin if not a cisplatin candidate and gemcitabine or nivolumab







#### **Bladder Cancer – Stage II, IIIA, IIIB Muscle Invasive**



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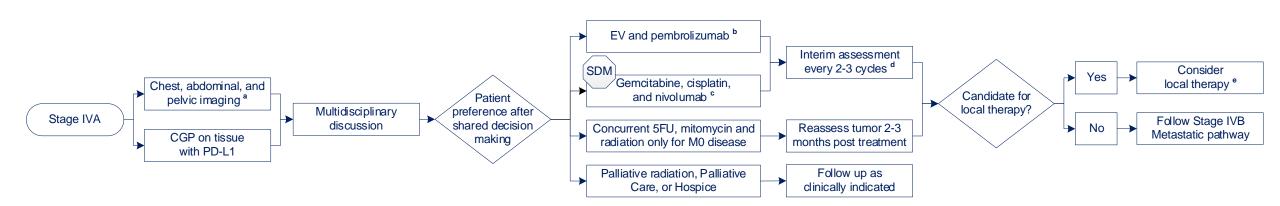
<sup>a</sup> Imaging perform bone scan if clinically indicated
 <sup>b</sup> Candidate for Cystectomy patients with clinical node positive disease should have resolution of adenopathy post chemo to become eligible for cystectomy
 <sup>c</sup> Bladder Preservation avoid bladder preservation in patients with hydronephrosis and extensive or multifocal carcinoma in situ
 <sup>d</sup> Platinum-Based Chemotherapy dose-dense MVAC can be considered in select patients
 <sup>e</sup> Adjuvant Nivolumab for patients with pT3, pT4a, or pN+ or ypT2 to ypT4a or ypN+ who received neoadjuvant cisplatin following radical cystectomy
 <sup>f</sup> SDM Durvalumab shared decision making is critical at the time of consideration of durvalumab; in clinical trials, the control arm was chemotherapy alone and contained no information regarding any subsequent therapies in the control arm; thus, it is unclear if survival benefit is from neoadjuvant therapy alone, adjuvant therapy, or both components; physician should discuss these uncertainties with patients
 MVAC Methotrexate, Vinblastine, Doxorubicin, Cisplatin



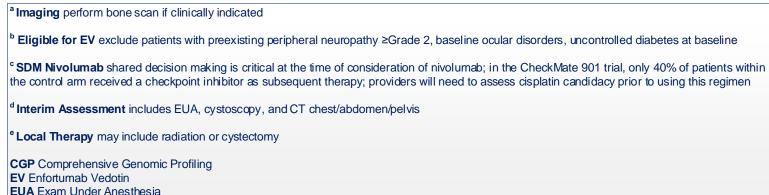




#### **Bladder Cancer – Stage IVA**



Clinical trial(s) always considered on pathway. For assistance finding a clinical trial, email CancerClinicalTrialsNavigation@va.gov.

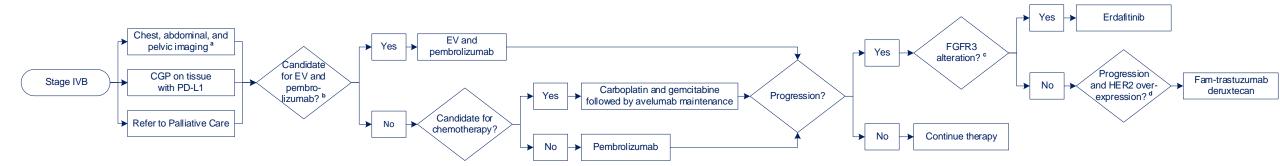








#### **Bladder Cancer – Stage IVB**



Clinical trial(s) always considered on pathway. For assistance finding a clinical trial, email CancerClinicalTrialsNavigation@va.gov.

Imaging perform bone scan if clinically indicated, imaging of central nervous system (CNS) as clinically indicated

Constrained on pathway. For assistance finding a clinical trial, email CancerClinicalTrialsNavigation@va.gov.

Imaging perform bone scan if clinically indicated, imaging of central nervous system (CNS) as clinically indicated

Constrained on perform bone scan if clinically indicated, imaging of central nervous system (CNS) as clinically indicated

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Comprehensive Genomic Profiling
EV Enfortumab Vedotin

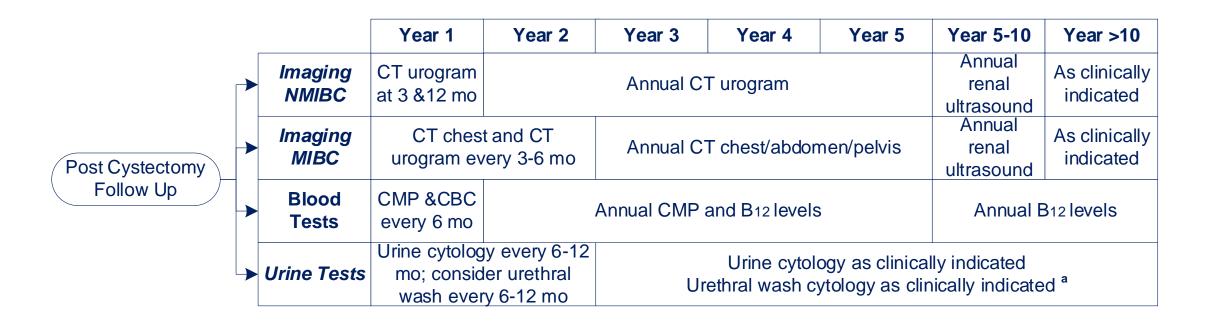
Criteria for Use
Erdafitinib: exclude patients with retinal/corneal abnormality at baseline or serum phosphate greater than upper limits of normal at baseline; perform ophthalmological exams at baseline and then monthly for the first 4 months of therapy, then every 3 months thereafter
Enfortumab Vedotin: exclude patients with preexisting neuropathy ≥ Grade 2, baseline ocular disorders, or uncontrolled diabetes at baseline







#### **Bladder Cancer – Post Cystectomy Follow Up**



Clinical trial(s) always considered on pathway. For assistance finding a clinical trial, email CancerClinicalTrialsNavigation@va.gov.

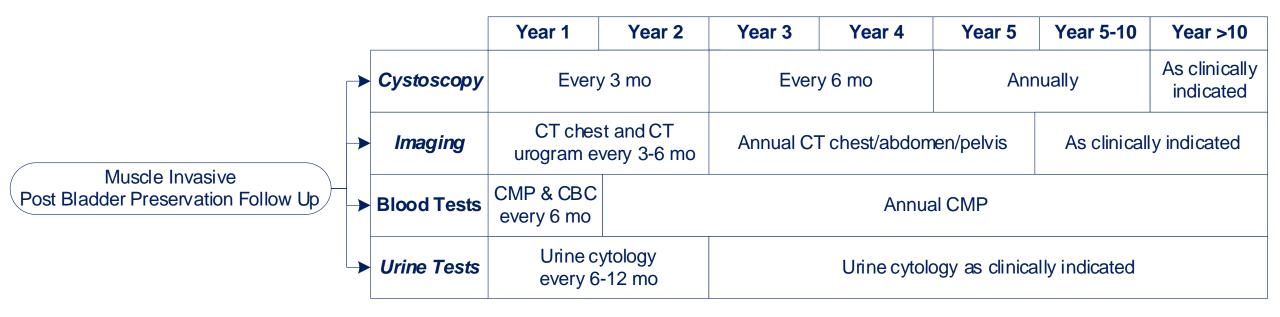
<sup>a</sup> Urethral Wash recommended for prostatic urethral involvement (papillary or CIS) on TURBT or cystectomy pathology







#### **Bladder Cancer – Muscle Invasive Post Bladder Preservation Follow Up**









#### **Bladder Cancer – Molecular Testing Table**

Eligibility	Test Category	Test Type	Recommended Vendors	NPOP Coverage	Specimen Type	
Stage IVA Muscle Invasive Urothelial Carcinoma/Bladder Cancer, Predominantly Urothelial	Somatic NGS	CGP using both DNA and RNA based methodology	Tempus Foundation Medicine	Yes Yes	Tumor Tissue*, Blood	
	IHC	PD-L1 expression by IHC using 22C3 antibody (pembrolizumab), SP142 antibody (atezolizumab), 28-8 pharmDx antibody (nivolumab), SP263 antibody (durvalumab)	Tempus Foundation Medicine	Yes (When ordered with CGP) Yes (When ordered with CGP)	Tumor Tissue	
Stage IVB Metastatic Urothelial Carcinoma/Bladder Cancer	Somatic NGS	CGP using both DNA and RNA based methodology	Tempus Foundation Medicine	Yes Yes	Tumor Tissue*, Blood	
	IHC	PD-L1 expression by IHC using 22C3 antibody (pembrolizumab), SP142 antibody (atezolizumab), 28-8 pharmDx antibody (nivolumab), SP263 antibody (durvalumab)	Tempus Foundation Medicine	Yes (When ordered with CGP) Yes (When ordered with CGP)	Tumor Tissue	
	IHC	HER2	Foundation Medicine	Yes (When ordered with CGP)	Tumor Tissue	
* Tissue preferred, but liquid acceptable if tissue insufficient						





