# Oncology Clinical Pathways Bladder Cancer (Urothelial Carcinoma Only)

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## <u>Bladder Cancer – Presumptive Conditions</u>

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.

#### <u>Vietnam Veterans – Agent Orange Exposure or Specified Locations</u>

Bladder cancer

#### Atomic Veterans – Exposure to Ionizing Radiation

Cancer of the urinary tract

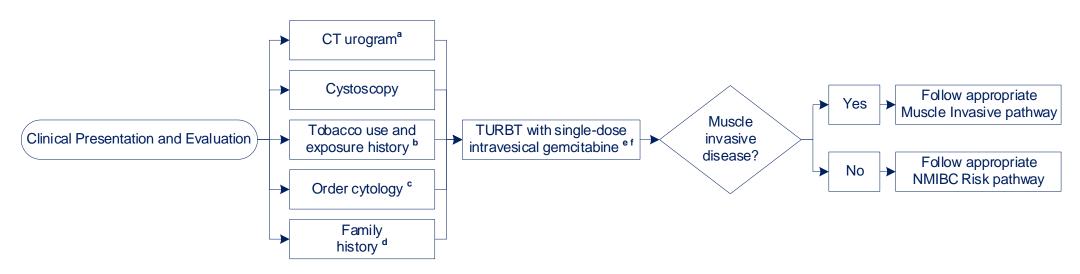
For more information, please visit <u>U.S. Department of Veterans Affairs - Presumptive Disability Benefits (va.gov)</u>







#### **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
- fintravesical Gemcitabine for known or presumed low grade

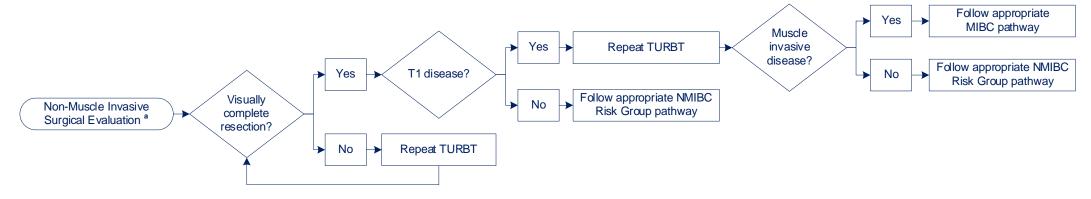
**TURBT** Transurethral Resection of Bladder Tumor **EUA** Exam Under Anesthesia







#### 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

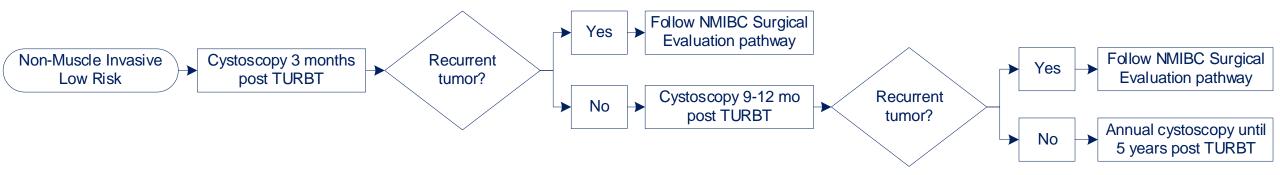
	American Urolog	gical	Association Non-Muscle Inva	sive	Risk Stratification
	Low Risk		Intermediate Risk		High Risk
	Papillary urothelial neoplasm of low malignant potential	•	Low grade urothelial carcinoma  T1 or	•	High grade urothelial carcinoma  CIS or T1 or
	Or		<ul><li>&gt;3 cm or</li><li>Multifocal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







#### <u>Bladder Cancer – Non-Muscle Invasive Low Risk</u>



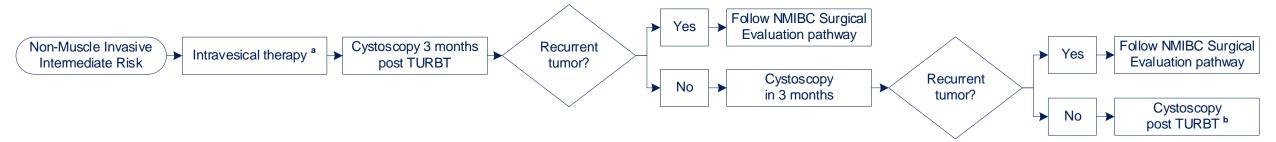
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#### <u>Bladder Cancer – Non-Muscle Invasive Intermediate Risk</u>



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<sup>a</sup> Intravesical Therapy BCG weekly instillations for 6 weeks preferred for high grade disease; if low grade or not available, gemcitabine once a week for six weeks within 3-4 weeks of TURBT; BCG or gemcitabine maintenance should be continued for one year

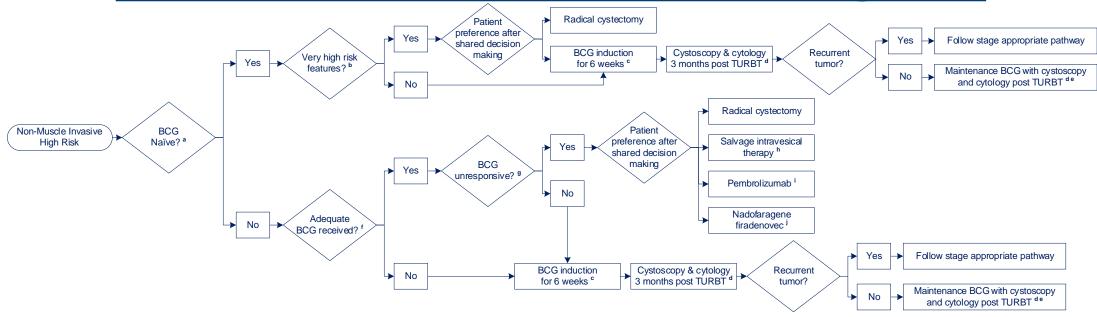
<sup>b</sup> Cystoscopy Post TURBT Schedule at Year 1: at 3, 6, and 12 months; Year 2: every 6 months; Years 3 and later: annually







#### <u>Bladder Cancer – Non-Muscle Invasive High Risk</u>



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

b Very High Risk Features include variant histologies, lymphovascular invasion, or prostatic urethral invasion

BCG Induction only one repeat induction BCG course

Cystoscopy and Cytology Post TURBT surveillance schedule: years 1-2: every 3 months; years 3-4: every 6 months; years ≥5: annually

BCG Maintenance 3 week instillations at 3, 6, 12, 18, 24, 30, and 36 months (3 years) after start of induction BCG

f Adequate BCG defined as ≥5 induction doses and ≥2 maintenance doses

g 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)

Salvage Intravesical Therapy gemcitabine and docetaxel preferred

Pembrolizumab indicated 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>1</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)

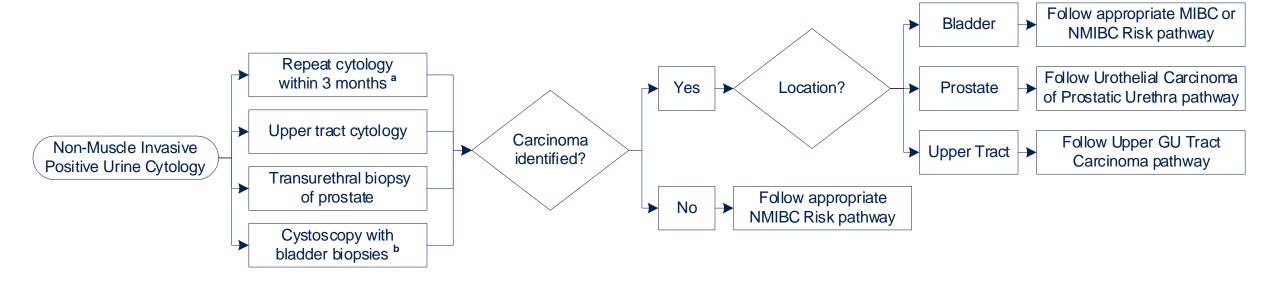
**BCG** Bacillus Calmette Guerin







#### <u>Bladder Cancer – Non-Muscle Invasive Positive Urine Cytology</u>



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

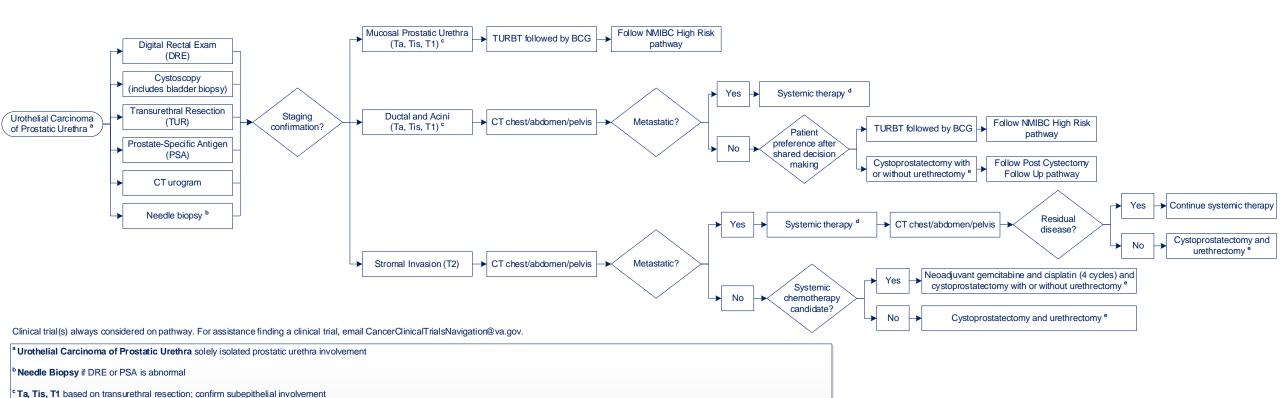
<sup>b</sup> Cystoscopy use enhanced technology if available







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





TURBT Transurethral Resection of Bladder Tumor

**BCG** Bacillus Calmette-Guerin

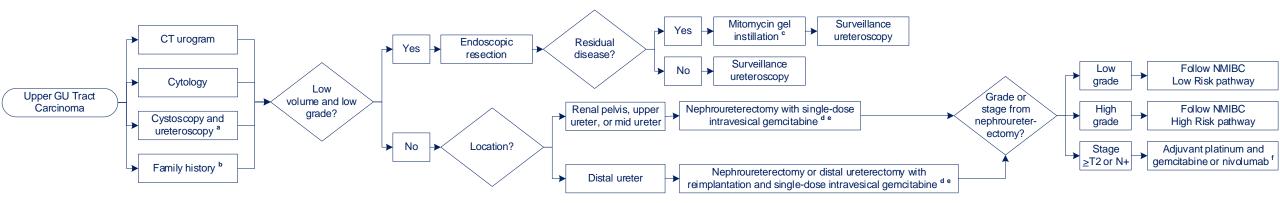
If Only Prior Pelvic Metastatic Disease, reimage with PET to ensure no metastatic disease prior to proceeding with surgery



d If Cisplatin Eligible prescribe gemoitabine and cisplatin followed by avelumab maintenance therapy; If Cisplatin Ineligible prescribe gemoitabine and carboplatin followed by avelumab maintenance therapy



#### <u>Bladder Cancer – Upper GU Tract Carcinoma</u>



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 ± single-dose intravesical gemoitabine

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

Mitomycin Gel Instillation use for ureteral tumors is off-label

d Consider Neoadjuvant Gemcitabine and Cisplatin for select high grade patients; consider Tumor Board discussion

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

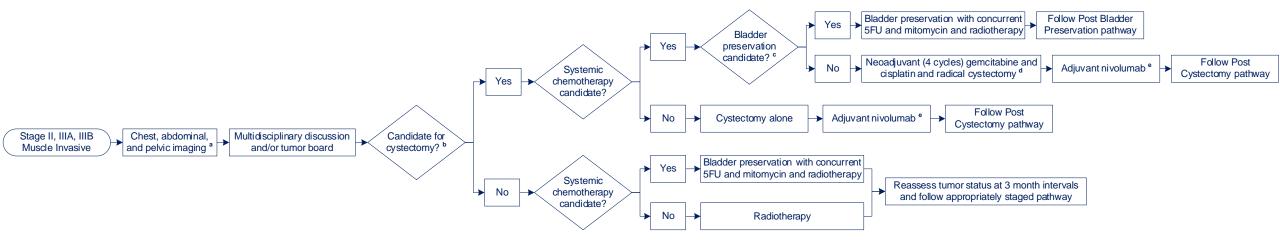
<sup>f</sup> Adjuvant Therapy cisplatin if renal function allows; carboplatin if not a cisplatin candidate







#### Bladder Cancer - Stage II, IIIA, IIIB Muscle Invasive



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

<sup>a</sup> Imaging perform bone scan if clinically indicated

Candidate for Cystectomy patients with clinical node positive disease should have resolution of adenopathy post chemo to become eligible for cystectomy

<sup>©</sup> Bladder Preservation avoid bladder preservation in patients with hydronephrosis and extensive or multifocal carcinoma in situ

Platinum-Based Chemotherapy dose-dense MVAC can be considered in select patients

<sup>e</sup> Adjuvant Nivolumab for patients at high risk for recurrent MIBC following radical cystectomy with negative margins regardless of PD-L1 status

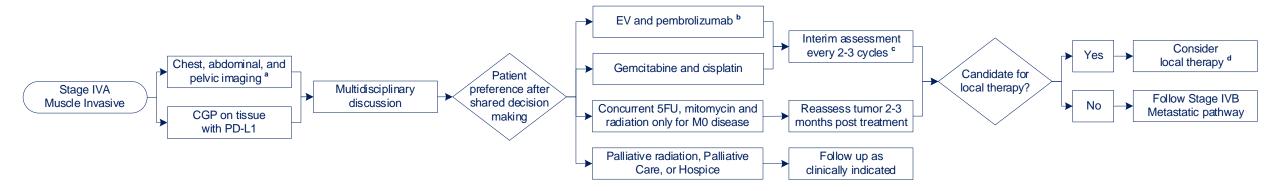
MVAC Methotrexate, Vinblastine, Doxorubicin, Cisplatin







#### Bladder Cancer – Stage IVA Muscle Invasive



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

<sup>a</sup> Imaging perform bone scan if clinically indicated

<sup>b</sup> Eligible for EV exclude patients with preexisting peripheral neuropathy ≥Grade 2, baseline ocular disorders, uncontrolled diabetes at baseline

<sup>c</sup> Interim Assessment includes EUA, cystoscopy, and CT chest/abdomen/pelvis

d Local Therapy may include radiation or cystectomy

**CPG** Comprehensive Genetic Profiling

**EV** Enfortumab Vedotin

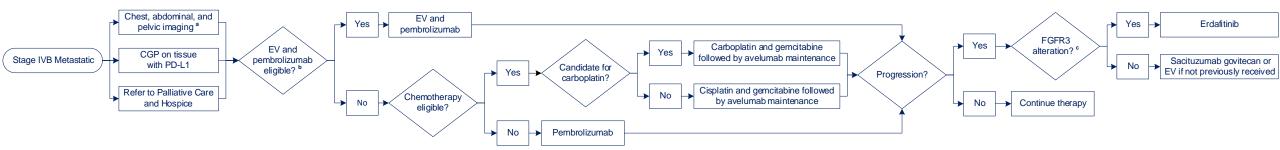
**EUA** Exam Under Anesthesia







## <u>Bladder Cancer – Stage IVB Metastatic</u>



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

<sup>a</sup> Imaging perform bone scan if clinically indicated, imaging of central nervous system (CNS) as clinically indicated

<sup>b</sup> Eligible for EV exclude patients with preexisting peripheral neuropathy ≥ Grade 2, baseline ocular disorders, uncontrolled diabetes at baseline

<sup>c</sup> If Not a Candidate for These Therapies consider hospice and/or palliative radiation

**CPG** Comprehensive Genetic 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

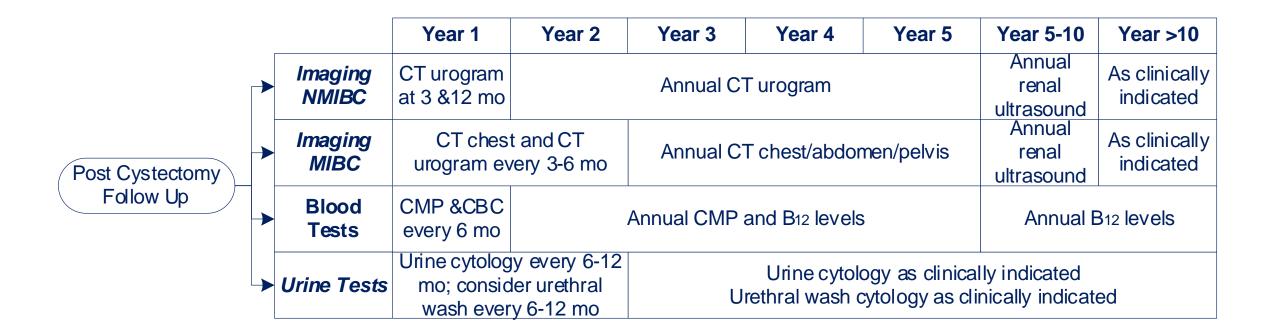
Sacituzumab Govitecan: has accelerated approval (Phase 2) for patients who previously received a platinum-containing chemotherapy and either a PD-1 or PD-L1 inhibitor; monitor for diarrhea and cytopenias; pre-medicate with antipyretics, H1 and H2 blockers, a regimen for CINV and a steroid if prior infusion reaction; hold for ANC <1500/mm³ on D1 or <1000/mm³ on D8







## Bladder Cancer - Post Cystectomy Follow Up

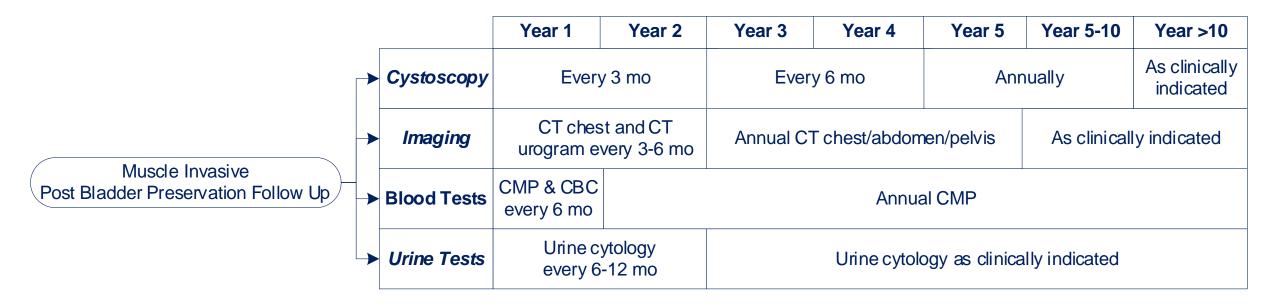








#### <u>Bladder Cancer – Muscle Invasive Post Bladder Preservation Follow Up</u>









#### Bladder Cancer – Molecular Testing Table

Eligibility	Test Category	Test Type	Recommended Vendors	NPOP Coverage	Specimen Type
Stage IVA Muscle Invasive	Somatic NGS	Comprehensive genomic profiling by solid biopsy (through NPOP preferred) or by	Tempus	Yes	Tumor Tissue*,
Urothelial Carcinoma/Bladder	Somatic NOS	liquid biopsy if there is insufficient tissue	Foundation Medicine	Yes	Blood
Cancer, Predominantly Urothelial	IHC	, , , , , , , , , , , , , , , , , , ,	Tempus	Yes (When ordered with CGP)	Tumor Tissue
Carleer, i redominantly crothellar		(atezolizumab), 28-8 pharmDx antibody (nivolumab), SP263 antibody (durvalumab)	Foundation Medicine	Yes (When ordered with CGP)	
	Somatic NGS	Comprehensive genomic profiling by solid biopsy (through NPOP preferred) or by	Tempus	Yes	Tumor Tissue*,
Stage IVB Metastatic Urothelial	Somalic NGS	liquid biopsy if there is insufficient tissue	Foundation Medicine	Yes	Blood
Carcinoma/Bladder Cancer	IHC	PD-L1 expression by IHC using 22C3 antibody (pembrolizumab), SP142 antibody	Tempus	Yes (When ordered with CGP)	Tumor Tissue
	INC	(atezolizumab), 28-8 pharmDx antibody (nivolumab), SP263 antibody (durvalumab)	Foundation Medicine	Yes (When ordered with CGP)	Turrior rissue

<sup>\*</sup> Tissue preferred, but liquid acceptable if tissue insufficient





