

Supplementary Online Content

Bree KK, Shan Y, Hensley PJ, et al. Management, surveillance patterns, and costs associated with low-grade papillary stage Ta non–muscle-invasive bladder cancer among older adults, 2004-2013. *JAMA Netw Open.* 2022;5(3):e223050. doi:10.1001/jamanetworkopen.2022.3050

eTable 1. Drug and Procedure Codes

eTable 2. Adherence to Current Low-Risk NMIBC Guidelines 1 Year After Diagnosis

eFigure. Study Flow Diagram Illustrating Cohort Selection

This supplementary material has been provided by the authors to give readers additional information about their work.

eTable 1. Drug and Procedure Codes

	CPT/HCPCS	ICD-9-PCS
Screening		
Cystoscopy	52000	
CT/MRI	74176, 74177, 74178, 74181, 74182, 74183, 74150, 74160, 74170, 72194, 72197	
Renal Ultrasound	76770, 76775	
IV Pyelography	74400-74415	
Retrograde pyelogram	74420, 52005	
Urine cytology or other urine biomarker	88112, 88120, 88121, 86316, 86294, 86386, 81479, 88106, 88108	
Treatment		
TURBT	52234, 52235, 52240	
BCG therapy	J9031, 90586	
Intravesical chemotherapy	51720	
Radical cystectomy	51570, 51575, 51580, 51585, 51590, 51595, 51596, 51597	57.71, 57.79, 68.8
Radiation	77261, 77385, 77386, 77399, 77401-77499, 77371-77373, G0173, G0174, G0251, G0339, G0340, G6001-G6017, 77520-77525	92.21–92.29

Abbreviations: BCG, bacillus Calmette-Guérin; CPT, Current Procedural Terminology; CT, computed tomography; HCPCS, Healthcare Common Procedure Coding System; ICD-9(10)-PCS, International Classification of Diseases, Ninth (Tenth) Revision, Procedure Coding System; MRI, magnetic resonance imaging; TURBT, transurethral resection of bladder tumor.

eTable 2. Adherence to Current Low-Risk NMIBC Guidelines 1 Year After Diagnosis^a

Quality of care measure	2004-2008	2009-2013	
	N (%)	N (%)	P-value
≤2 Cystoscopies	4,398 (55.2)	2,736 (53.8)	0.108
≤1 Cytology	5,103 (64.1)	2,748 (54.0)	<.0001
≤1 Upper tract imaging	4,181 (52.5)	2,585 (50.8)	0.061
Absence of any BCG instillation	6,492 (81.5)	4,312 (84.7)	<.0001
Absence of intravesical chemotherapy^b	6,302 (79.1)	3,912 (76.9)	0.0027

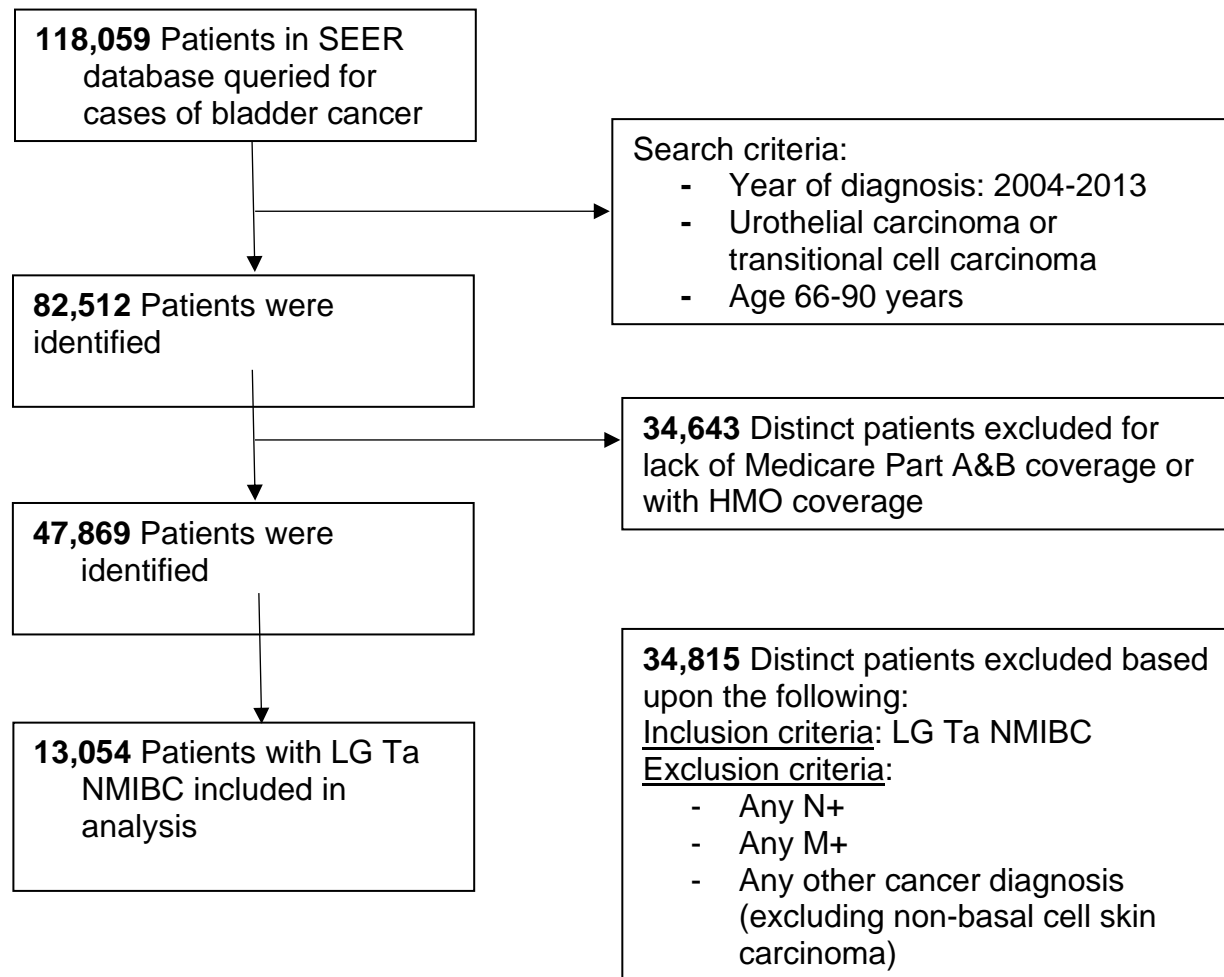
Abbreviations: BCG, bacillus Calmette-Guérin; NMIBC, non-muscle invasive bladder cancer.

^aThe AUA/SUO guidelines recommend the following surveillance within 1 year of diagnosis⁵:

- Cystoscopies: two (first-look cystoscopy at 3 months, followed by repeat cystoscopy at 6-9 months)
- Upper tract imaging: none
- Urine-based tests: none

^bIntravesical chemotherapy: receipt of intravesical treatment beyond single perioperative dose

eFigure. Study Flow Diagram Illustrating Cohort Selection



Abbreviations: HMO, health maintenance organization; NMIBC, non-muscle invasive bladder cancer; SEER, surveillance, epidemiology, and end results.