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Guideline Adherence of Immediate Post-Transurethral Resection Intravesica Chemotherapy for Patients with Nonmuscle Invasive Bladder Cancer Keiyu Matsumoto, Yoshiyuki Matsui, Hiromitsu Negoro, Naoki Terada, Toshinari Yamasaki, Takahiro Inoue, Tomomi Kamba, Osamu Ogawa* and Takashi Kobayashi								
Abstract	Q	Abbreviations and Acronyms						
<b>Introduction:</b> Immediate postoperative instillation of chemotherar rence of nonmuscle invasive bladder cancer is supported by level contemporary guidelines. However, there have been a few reports of immediate postoperative chemotherapy instillation after transureth	1 evidence and recommended by on the feasibility and adherence of	IPIOC = immediate postoperative instillation of chemotherapy						
assessed the adherence rate of this treatment in patients with nonm		NMIBC = nonmuscle invasive bladder cancer						
<b>Methods:</b> We identified 438 patients with clinically Ta/T1 blad surethral resection with curative intent between 2008 and 20 mentation of immediate postoperative instillation of chemotherap this treatment we tried to identify the reasons for nonadministrat categorized them into technical, patient or other factors. We furthe characteristics associated with nonadministration.	13. We investigated the imple- by. For those who did not receive tion from the clinical record and	TUR = transurethral resection						
<b>Results:</b> Overall 193 of the 438 study patients (44.1%) did not instillation of chemotherapy. The noninstillation rate constantly de 28.0% between the study periods. Deep resection was the madministration. There was a statistically significant decreasing ti Multivariate analysis revealed that clinical stage T1 tumor, negative were independently associated with nonadministration.								
<b>Conclusions:</b> Guideline adherence improved with time, suggestin understanding of the guideline contributed to achieve high adheren common reason for nonadministration, which was associated with larger tumor size.	nce. Deep resection was the most							
<i>Key Words:</i> urinary bladder neoplasms; drug therapy; neopla adherence; practice patterns, physicians'	asm recurrence, local; guideline							
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### ARTICLE IN PRESS

#### Guideline Adherence of Post-Transurethral Resection Chemotherapy

97 The natural history of NMIBC is characterized by 98 frequent intravesical recurrence at a rate of up to 75%.<sup>1</sup> 99 IPIOC is supported by level 1 evidence showing an approximately 30% decrease in the intravesical recurrence 100 101 rate and 40% prolongation of recurrence-free survival.<sup>2,3</sup> Guidelines also support IPIOC,4-7 although the level of 102 103 recommendation varies from standard to optional, reflecting 104 the unresolved controversy about uniform application to all Ta/T1 tumors without exception.<sup>8</sup> 105

Indeed, a national practice survey in the United States 106 107 revealed that IPIOC was used in only about 4% of potential patients.9 Even after the publication and dissemination of 108 guidelines the utilization rate of IPIOC was still as low as 109 110 30%.<sup>10</sup> The low guideline adherence could be attributable to 111 insufficient dissemination of the guideline and to heteroge-112 neous study populations in terms of patient preferences and 113 physician practice patterns.

114 In this regard a practice based collaborative group in the 115 United States reported a higher utilization rate of approxi-116 mately 80% for IPIOC.<sup>11</sup> This suggests that the relatively 117 low administration rates in the previous national surveys 118 were due in part to the study design based on administrative data collection.<sup>9,10</sup> Additionally, another report from the 119 120 same collaborative group suggested that the IPIOC utiliza-121 tion rate could be improved to some degree with better 122 education and understanding of indications and treat-123 ments.<sup>12</sup> However, the report also showed the so-called 124 ceiling effect, which makes it difficult to improve practice 125 beyond a certain degree of high quality care at baseline.

# Thus, it is still unclear how well the guideline recommendation for IPIOC is feasible and can be adhered to after148it has been adopted and disseminated into real world clinical150practice. We report the use of IPIOC for NMIBC with regard to the rate of instillation, reasons for nonadministration151and clinical characteristics associated with nonadherence at153a single academic institution.154

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#### **Patients and Methods**

We adopted IPIOC into our clinical practice protocol in 158 2008. Since then, NMIBC treated with TUR with curative 159 intent has been considered the indication for IPIOC with 160 epirubicin (50 mg/50 ml saline for 1 hour) in principle 161 irrespective of tumor size, appearance, number, clinical 162 stage and suspicion of carcinoma in situ. To investigate the 163 adherence and the feasibility of the treatment strategy, we 164 retrospectively reviewed the records of our patients with 165 NMIBC. 166

We identified 438 patients with clinically Ta/1N0M0 167 bladder cancer who underwent TUR with curative intent 168 between 2008 and 2013 (table 1). Those undergoing diag-[T1]169 nostic transurethral biopsy of the bladder or repeat TUR 170 following initial TUR for pT1 bladder cancer were excluded 171 from study. We reviewed clinical records with regard to 172 whether the patient received an immediate intravesical 173 instillation postoperatively as well as other clinicopatho-174 logical characteristics. Class 4 or 5 urine cytology results 175 were considered positive. If intravesical chemotherapy was 176

#### 127 Table 1.

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Patient characteristics

			Instillation					
	Overall		Yes		No		p Value	
No. pts (%)	438	(100)	245	(100)	193	(100)		_
Median age (range)	73 (29–96)		72 (35-96)		75 (29-94)		0.036 (Mann-Whitney U test)	
No. clinical stage (%):							< 0.0001	(Fisher exact test)
Та	353	(81)	217	(89)	136	(70)		
T1	85	(19)	28	(11)	57	(30)		
No. cytology (%):							0.0002	(chi-square test)
Pos	283	(65)	178	(73)	105	(54)		
Neg	147	(34)	65	(27)	82	(42)		
Not done	8	(2)	2	(1)	6	(3)		
No. multiplicity (%):							0.492	(Fisher exact test)
Single	175	(40)	94	(38)	81	(46)		
Multiple	263	(60)	151	(62)	112	(54)		
No. recurrence history (%):							0.442	(Fisher exact test)
Primary	217	(50)	117	(48)	100	(52)		
Recurrence	221	(50)	128	(52)	93	(48)		
No. tumor size (%):							< 0.0001	(chi-square test)
3 cm or Less	386	(88)	230	(94)	156	(81)		
Greater than 3 cm	41	(9)	10	(4)	31	(16)		
Not assessable	11	(3)	5	(2)	6	(3)		
No. TUR yr (%):							< 0.0001	(Fisher exact test)
2008-2010	243	(55)	111	(45)	132	(68)		
2011-2013	195	(45)	134	(55)	61	(32)		

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