

INTRAVESICAL BCG INSTILLATION IS STRONGLY ASSOCIATED WITH A DECREASED RISK OF UPPER TRACT UROTHELIAL CARCINOMA RECURRENCE AS WELL AS INTRAVESICAL RECURRENCE IN ELDERLY MALE PATIENTS WITH PATIENTS WITH NON-MUSCLE INVASIVE BLADDER CANCER



MP 82-18

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INTRODUCTION AND OBJECTIVES

The incidence of elderly males with VUR increases with age, and this may be due to the higher number of men being examined bladder outlet obstruction.

Therefore, BCG instillation may effectively prevent upper urinary tract urothelial carcinoma (UTUC) recurrence as well as bladder recurrence, particularly in elderly males.

We investigated these relationships in non-muscle invasive bladder cancer (NMIBC) patients.

PATIENTS AND METHODS

Patients

- Our study population was comprised of 1128 non-muscle invasive bladder cancer (NMIBC) patients without a history of UTUC. Mean follow-up duration was 64 months.
- We investigated the relationships between clinico-pathological factors, including BCG instillation and UTUC development in NMIBC patients.

Table.1 Characteristics in NMIBC patients according to experience of BCG

Characteristics		Pts with BCG	Pts without BCG	P value
Age	<70	295	287	0.144
	≥70	253	293	
Gender	Male	471	457	0.002
	Female	77	123	
Grade	Low	235	464	<0.001
	High	313	116	
pT	Ta	305	467	<0.001
	T1	243	113	
Multiple	Yes	349	203	<0.001
	No	199	377	
CIS	Yes	115	14	<0.001
	No	433	566	

(C) Younger male patients

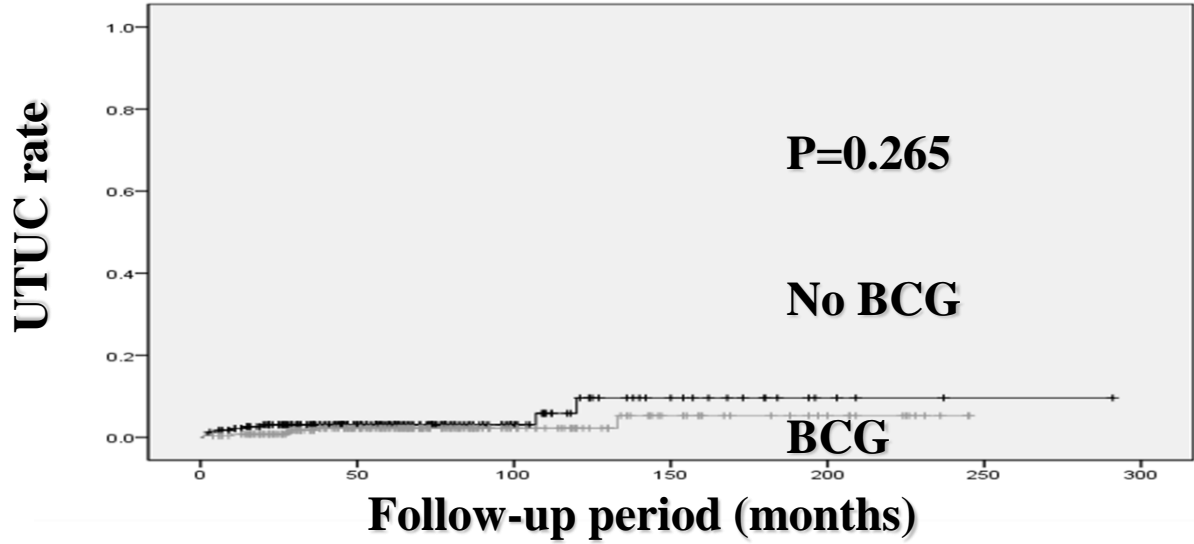
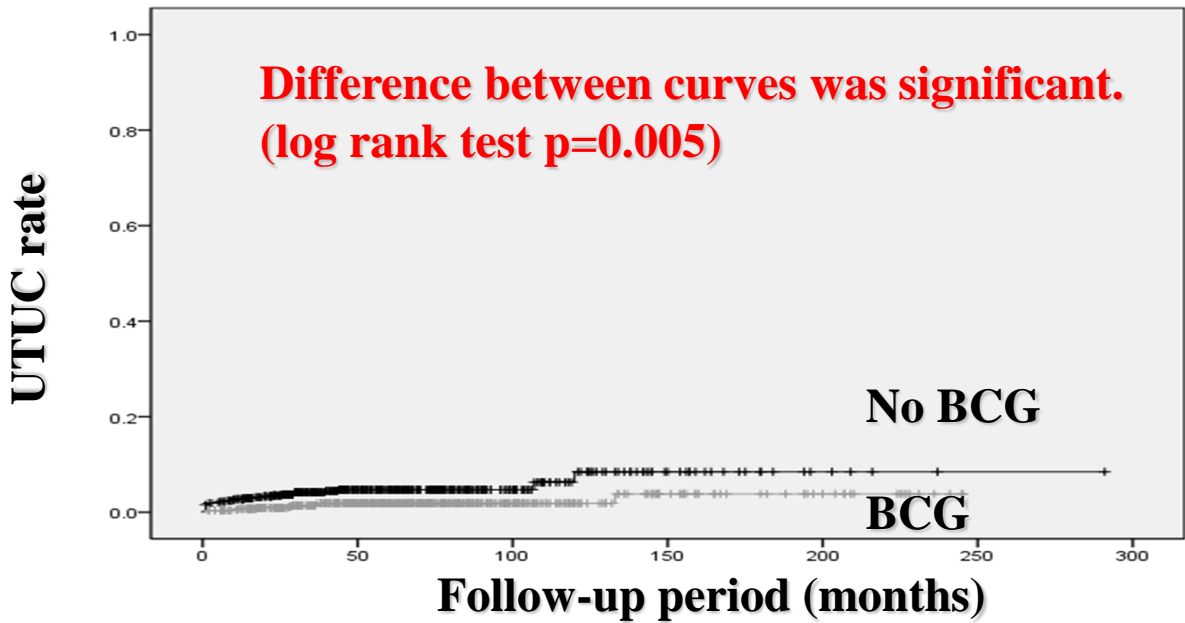


Table.2 Univariate and multivariate analysis for UTUC rate after TURBT in NMIBC

	Univariate	Multivariate		
	P value	Hazards Ratio	95% CI	P value
Age(≥70 vs <70)	0.330			
Gender	0.498			
Grade (G1,2 vs G3)	0.272			
T stage (T1 vs Ta)	0.892			
Multiple	0.091			
Concomitant CIS	0.651			
Chemotherapy	0.184			
BCG	0.005	0.260	0.119-0.566	0.001

Fig.1 The Comparison of UTUC rate in NMIBC patients with and without BCG

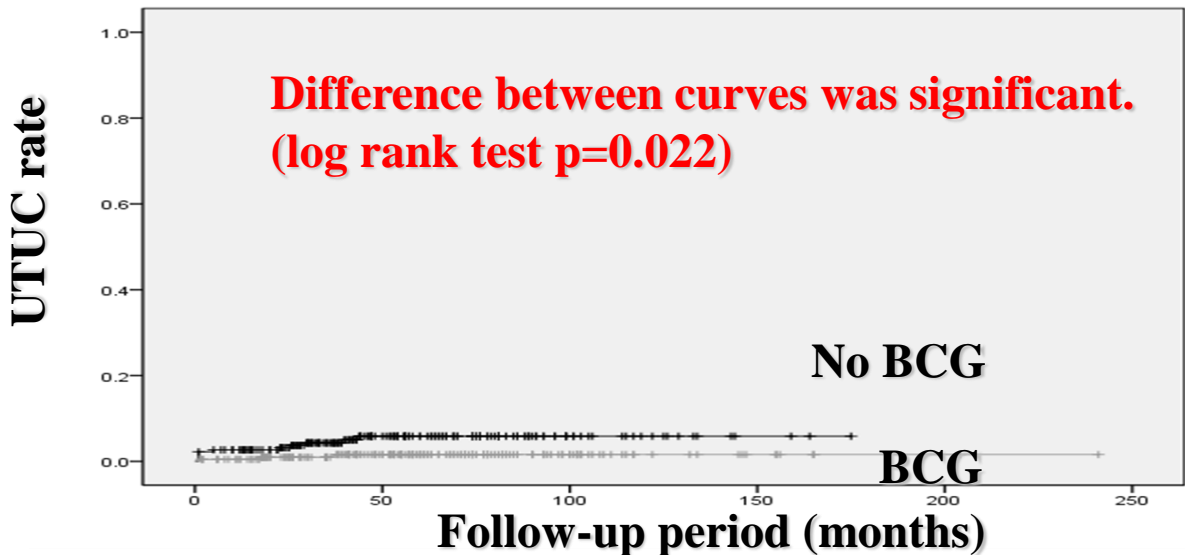
(A) Overall patients



5-year UTUC rate

No BCG 4.7%  
BCG 1.9%

(B) Elderly male patients



5-year UTUC rate

No BCG 5.9%  
BCG 1.6%

CONCLUSIONS

Results suggest that intravesical BCG instillation may prevent UTUC as well as bladder recurrence, particularly in elderly male patients.