### **Demographic Factors that Predict Compliance with Intravesical Therapy for Non-Muscle Invasive** LSU Health **Bladder Cancer: A Retrospective Review NEW ORLEANS School of Medicine**

## Introduction

- Intravesical Bacille Calmette-Guerin (BCG) is the g for non-muscle invasive bladder cancer (NMIBC)
- One year of treatment for intermediate-risk disea years of treatment for high-risk disease
- Non-compliance increases recurrence, progressio and mortality rates [1].
- Aim: explore demographic factors and clinical fact with non-compliance

## Methods

- 233 patients with intermediate or high-risk NMIBO BCG between 2012-2020.
- Variables: Age, sex, race, insurance type, zip code participation in a clinical trial
- Compliance = maintained expected BCG schedule for intermediate-risk and within 3 months for high
- 29 patients excluded for missing BCG dates or rec outside of hospital system
- 21 patients excluded for not having "adequate" B
- 183 patients met inclusion criteria

**David J, BS**; Zucker M, BS; Carroll T, MD; Straughan R, MD; Jaya Mishra, PhD; Gills J, MD; Westerman M, MD. LSUHSC School of Medicine, Department of Urology

gold standard	Variable	Compliant (n=144)	Non- compliant (n=39)	p value
ase, three	Race			0.3359
	African American	15 (88.24%)	2 (11.76%)	
on, metastasis,	Alaskan Native or American Indian	1 (100%)	0 (0%)	
	Asian	2 (100%)	0 (0%)	
ctors associated	Native Hawaiian or Pacific Islander	3 (75%)	1 (25%)	
	White	123 (77.85%)	35 (22.15%)	
	Other	3 (75%)	1 (25%)	
	Age			0.2741
	Sex			0.0480
3C who received	Female	25 (67.57%)	12 (32.43%)	
	Male	125 (82.24%)	27 (17.76%)	
	Insurance			0.2303
e, NCCN risk, and	Commercial	71 (85.54%)	12 (14.46%)	
	Medicaid	5 (100%)	0 (0%)	
	Medicare	61 (73.49%)	22 (26.51%)	
within 1 month	Other	7 (70%)	3 (30%)	
h-risk	Not found	6 (75%)	2 (25%)	
	<b>Distance to clinic</b>			0.0993
ceiving BCG	NCCN Risk			0.1063
	High	120 (83.33%)	24 (16.67%)	
	Intermediate	30 (68.18%)	14 (31.82%)	
3CG	<b>Clinical Trial</b>			<0.0001
	Yes	88 (97.78%)	2 (2.22%)	
	Νο	62 (63.27%)	36 (36.73%)	

Table 1: Demographic variables and clinical factors associated with compliance.

## Results

- Cohort characteristics:
- 76.6% with high-risk disease
- 47.9% participated in a clinical trial
- (82.2% vs 67.6%, p=0.048)
- (97.8% vs 63.3%, p<0.0001)
- (5.1%), unknown (28.2%)
- 12 months (38.5%) and 6 months (35.95%).

- associated with compliance
- significant roles
- Non-compliance typically occurs at 6-12 months

1. Abushamma F, Khayyat Z, Soroghle A, et al. The Impact of Non-Compliance to a Standardized Risk-Adjusted Protocol on Recurrence, Progression, and Mortality in Non-Muscle Invasive Bladder Cancer. *Cancer Manag Res*. 2021;13:2937-2945



# Department of Urology

Males had higher rate of compliance compared to females

Participation in a clinical trial significantly increased compliance

Reasons for non-compliance: lost to follow-up (35.9%), comorbidities (20.5%), side effects (10.2%), personal reasons

• Time in schedule where non-compliance most commonly occurs:

## Conclusions

• It is important for patients to adhere to the BCG treatment schedule to reduce cancer recurrence and progression

• Male sex and participation in a clinical trial were significantly

Race, gender, insurance type, and distance to clinic may not play

## References