

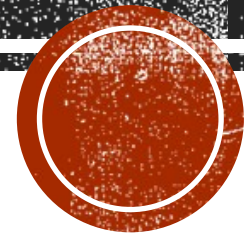
# PANEL ON NMIBC / MIBC

**Prof (Dr) Sanjai Addla**

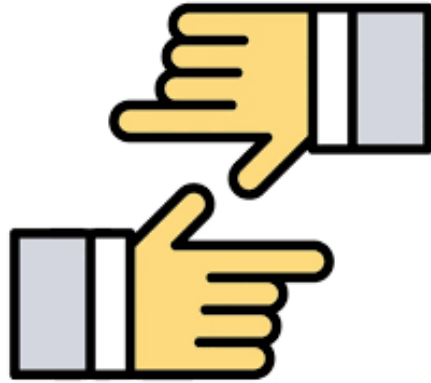
Consultant Robotic Uro-oncological surgeon

Apollo Cancer center, Hyderabad

[www.dr-sanjai.com](http://www.dr-sanjai.com)

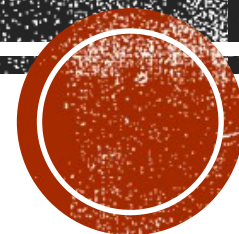
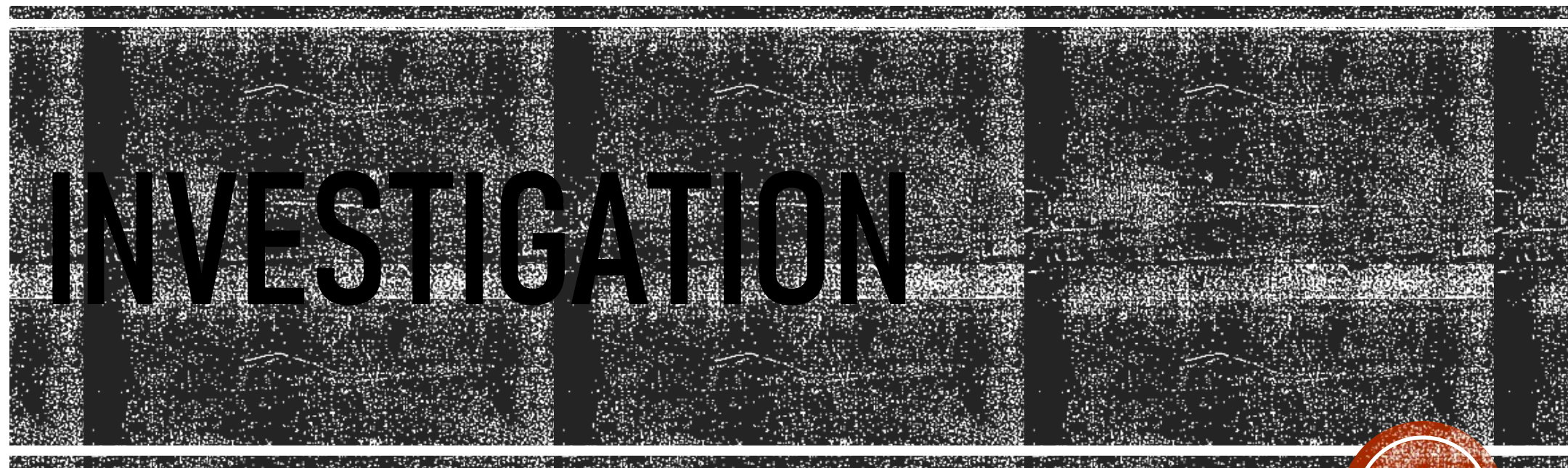


# GLADIATOR OUTCOMES



Institutional / Private





# INDIAN SCENARIO

- 65 yr old, Haematuria with USS showing a bladder mass, 3 cm in size.
- Urine cytology+ve



# Randomized Comparison of Magnetic Resonance Imaging Versus Transurethral Resection for Staging New Bladder Cancers: Results From the Prospective BladderPath Trial

The mpMRI-directed pathway led to a 45-day reduction in TTCT for MIBC. Incorporating mpMRI ahead of TURBT into the standard pathway was beneficial for all patients with suspected MIBC.



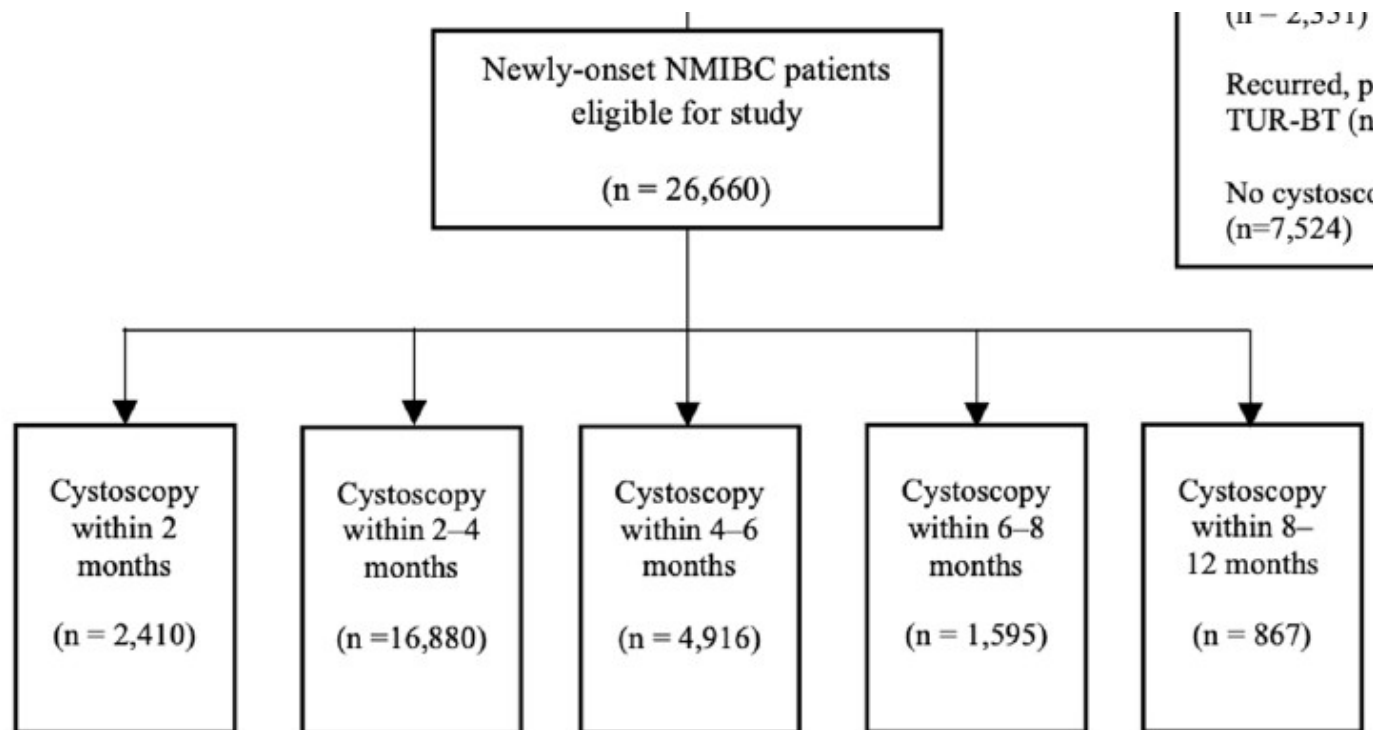
Triage in Institutions



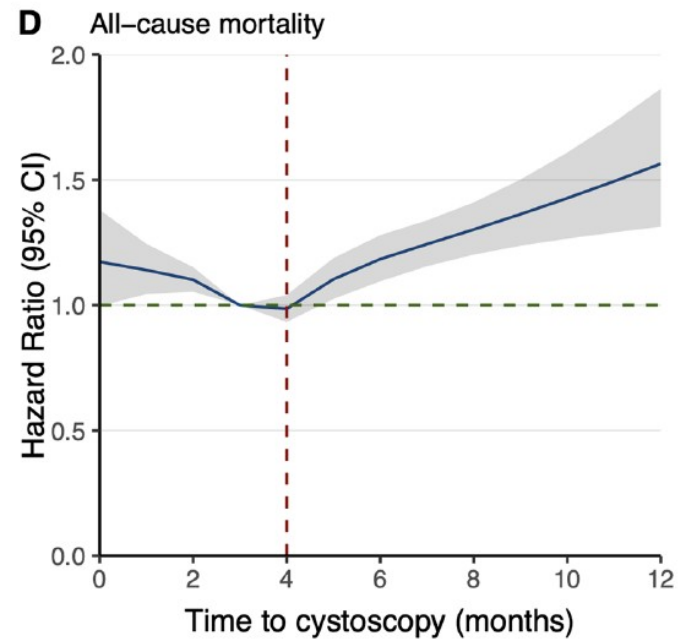
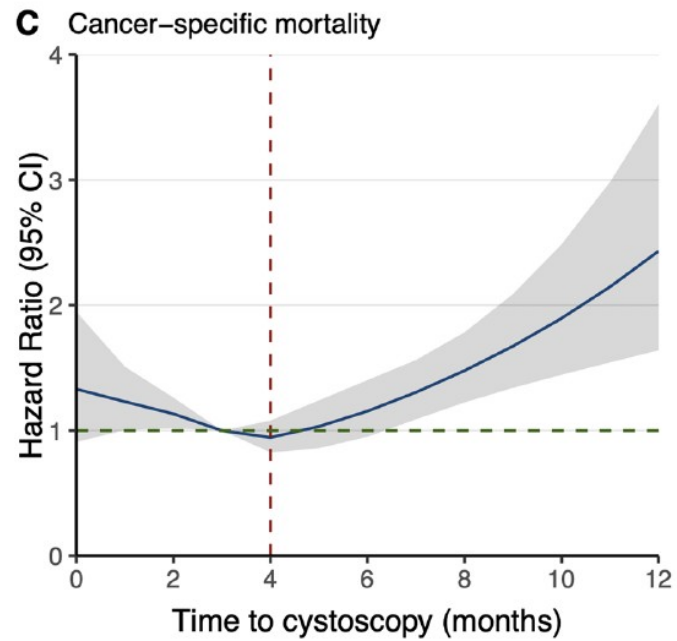
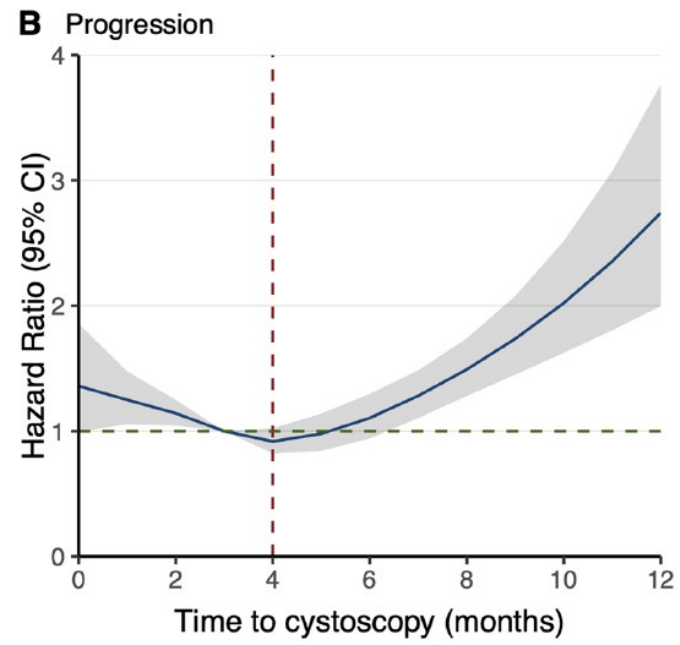
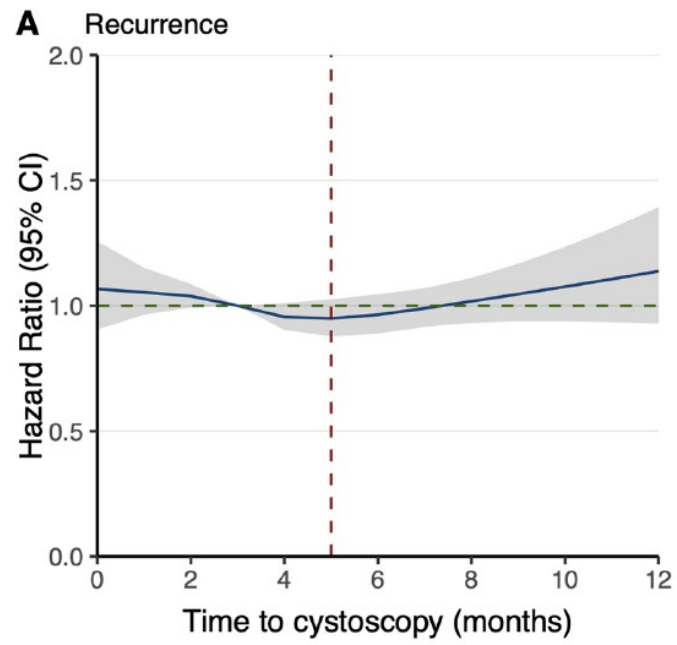
OPEN

# Optimal timing for the first cystoscopic follow-up using time-to-treatment initiation analysis of oncologic outcomes in primary non-muscle invasive bladder cancer

Jeong-Soo Kim<sup>1,4</sup>, Jooyoung Lee<sup>1,4</sup>, Tuan Thanh Nguyen<sup>2</sup> & Se Young Choi<sup>3✉</sup>







**DOES VH MAKE A DIFFERENCE ?**





## Clinical-Bladder cancer

# Impact of variant histology on upstaging and survival in patients with nonmuscle invasive bladder cancer undergoing radical cystectomy

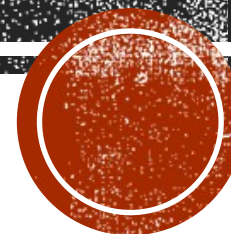
	VH	Pure UC	<i>P</i> -value
pT0	4	5	0.72
pTis	3	4	0.69
pTa	0	0	
pT1	5	12	0.057
<i>pT0–pT1</i>	<i>12</i>	<i>21</i>	<b>0.044</b>
pT2	2	1	0.287
– pT2a	1	5	
– pT2b	4	5	
pT3			<b>0.0078</b>
– pT3a	3	2	
– pT3b	11	2	
pT4	1	1	0.39
– pT4a	7	5	
– pT4b	1	0	
<i>pT3–pT4</i>	<i>23</i>	<i>10</i>	<b>0.0037</b>



	Total	pN+	Upstaged	Percent upstaged
Squamous differentiation	12	2	9	75%
Plasmacytoid	8	7	7	87.5%
Micropapillary	8	3	5	62.5%
Nested	5	2	4	80%
Glandular differentiation	5	0	2	40%
Sarcomatoid	4	3	4	100%



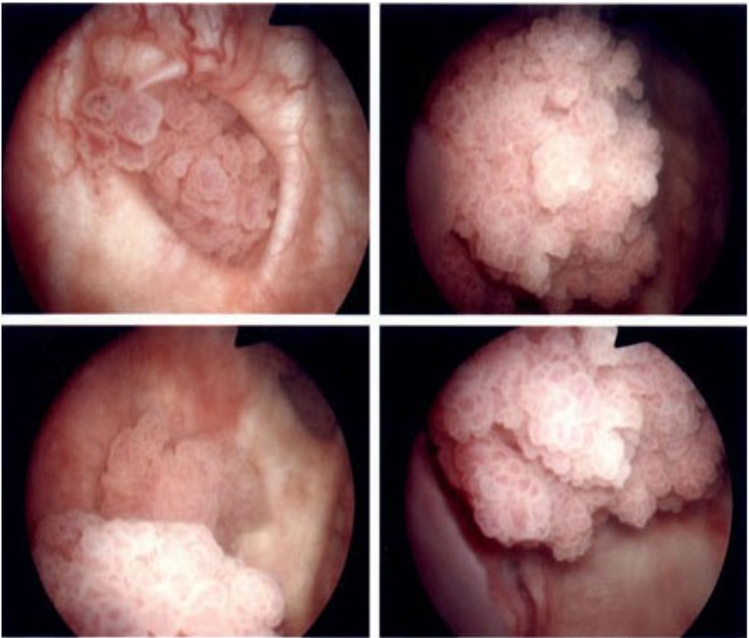
**BCG UNRESPONSIVE**



# Comparative Effectiveness of Bacillus Calmette-Guérin and Sequential Intravesical Gemcitabine and Docetaxel for Treatment-naïve Intermediate-risk Non-muscle-invasive Bladder Cancer

Kaushik P. Kolanukuduru<sup>†</sup>, Reuben Ben-David<sup>†</sup>, Sarah Lidagoster, Mohammed Almoflihi.

2 Lesions, <2 cms



Risk group	
Low Risk	<ul style="list-style-type: none"> <li>A primary, single, TaT1 LG/G1 tumour &lt; 3 cm in diameter without CIS in a patient ≤ 70 years</li> <li>A primary Ta LG/G1 tumour without CIS with at most ONE of the additional clinical risk factors</li> </ul>
Intermediate Risk	<ul style="list-style-type: none"> <li>Patients without CIS who are not included in either the low-, high-, or very high-risk groups</li> </ul>
High Risk	<ul style="list-style-type: none"> <li>All T1 HG/G3 without CIS, EXCEPT those included in the very high-risk group</li> <li>All CIS patients, EXCEPT those included in the very high-risk group</li> </ul>
	<b>Stage, grade with additional clinical risk factors:</b> <ul style="list-style-type: none"> <li>Ta LG/G2 or T1G1, no CIS with all 3 risk factors</li> <li>Ta HG/G3 or T1 LG, no CIS with at least 2 risk factors</li> <li>T1G2 no CIS with at least 1 risk factor</li> </ul>
Very High Risk	<b>Stage, grade with additional clinical risk factors:</b> <ul style="list-style-type: none"> <li>Ta HG/G3 and CIS with all 3 risk factors</li> <li>T1G2 and CIS with at least 2 risk factors</li> <li>T1 HG/G3 and CIS with at least 1 risk factor</li> <li>T1 HG/G3 no CIS with all 3 risk factors</li> </ul>

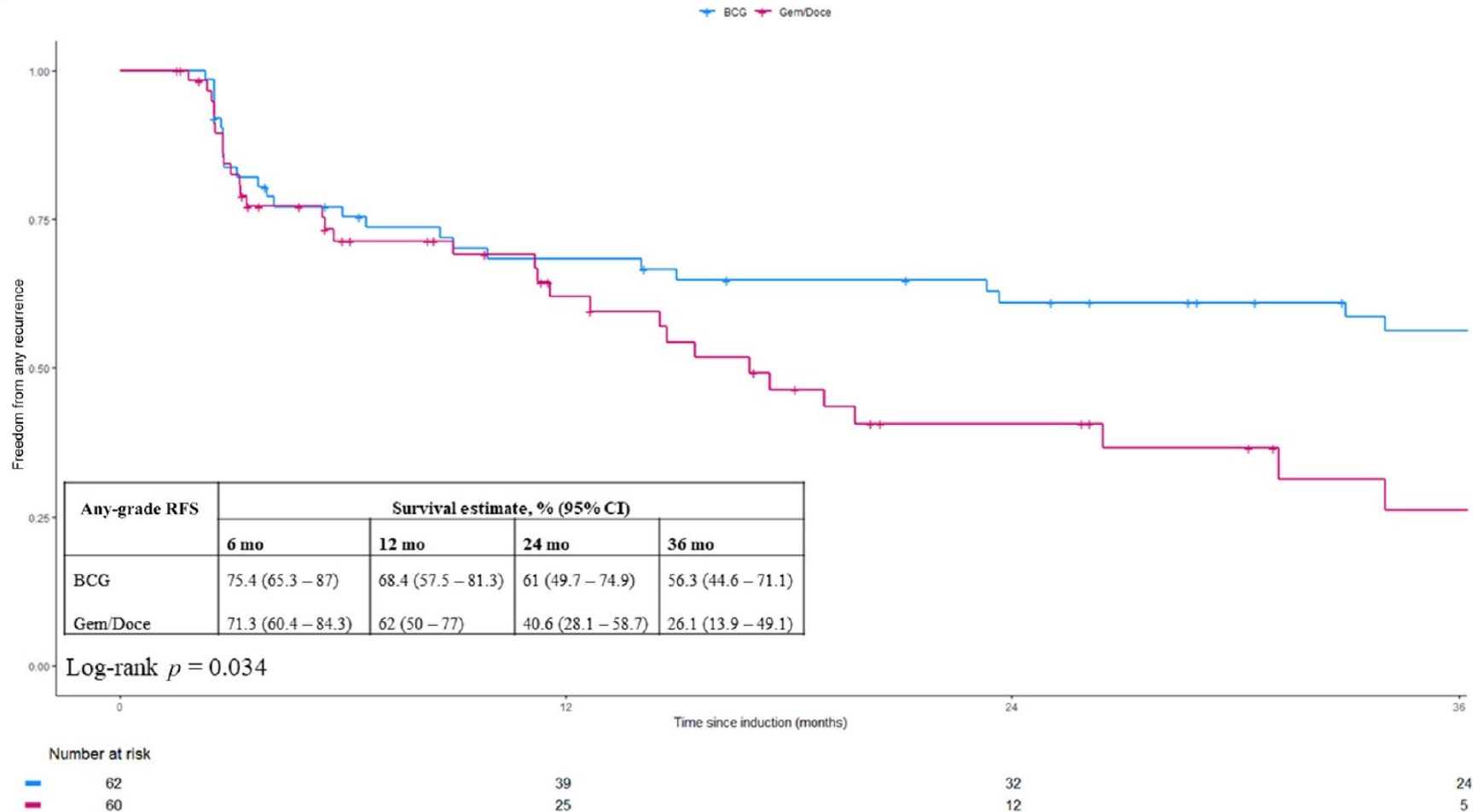
Parameter	All patients (n = 127)	BCG (n = 66)	Gem/Doce (n = 61)	p value
Median age, yr (IQR)	70 (62 - 76)	69 (61.2–76)	72 (62–76)	0.83
Median body mass index, kg/m <sup>2</sup> (IQR)	27 (24.25 - 30)	27 (24–30.8)	27 (25.4–29.3)	0.91
Sex, n (%)				0.82
Male	102 (80.3)	52 (79)	50 (82)	
Female	25 (18.7)	14 (21)	11 (18)	
Race, n (%)				0.94
White	75 (59.1)	38 (57.6)	37 (60.7)	
African American	17 (13.4)	9 (13.6)	8 (13.1)	
Other	35 (27.6)	19 (28.8)	16 (26.2)	
Smoking status, n (%)				0.86
Never	51 (40.1)	28 (42.4)	23 (37.7)	
Current	14 (11)	7 (10.6)	7 (11.5)	
Former	62 (48.9)	31 (47)	31 (50.8)	
ASA score, n (%) <sup>a</sup>				0.12
1	2 (1.6)	0 (0)	2 (3.3)	
2	62 (48.8)	26 (39.4)	36 (59)	
3	53 (41.7)	32 (48.5)	21 (34.4)	
4	2 (1.6)	1 (1.5)	1 (1.6)	
Median lesion size, cm (IQR) <sup>b</sup>	1.35 (0.8–2.35)	1.3 (0.7–2.2)	1.5 (1–2.5)	0.24
Tumor size, n (%) <sup>**</sup>				0.12
≤3 cm	102 (80.3)	58 (87.9)	44 (72.1)	
>3 cm	20 (15.7)	7 (10.6)	13 (21.3)	
Pretreatment T stage, n (%)				0.41
Ta	122 (96.1)	62 (94)	60 (98.4)	
T1	5 (3.9)	4 (6)	1 (1.6)	
Pretreatment tumor grade, n (%)				0.89
Low grade	44 (34.6)	22 (33.3)	22 (36.1)	
High grade	83 (65.4)	44 (66.7)	39 (63.9)	
Pretreatment tumor pathology, n (%)				0.34
Low-grade Ta	39 (30.7)	18 (27.3)	21 (34.5)	
High-grade Ta	83 (65.4)	44 (66.7)	39 (63.9)	
Low-grade T1	5 (3.9)	4 (6)	1 (1.6)	
Multifocal disease, n (%)	23 (18.1)	9 (13.6)	14 (30)	0.26
Year of treatment, n (%)				<0.001
2013–2020	69 (54.3)	59 (89.4)	10 (16.4)	
2021–2023	58 (45.7)	7 (10.6)	51 (83.6)	
Eligible patients who received mTx, n/N (%)	40/90 (44.4)	21/47 (44.7)	19/43 (44.2)	>0.99
Median follow-up, mo (IQR)	31.7 (14.3–53.9)	53.1 (25.3–71.2)	20.2 (8.28–33.1)	<0.001





# ANY GRADE RECURRENCE

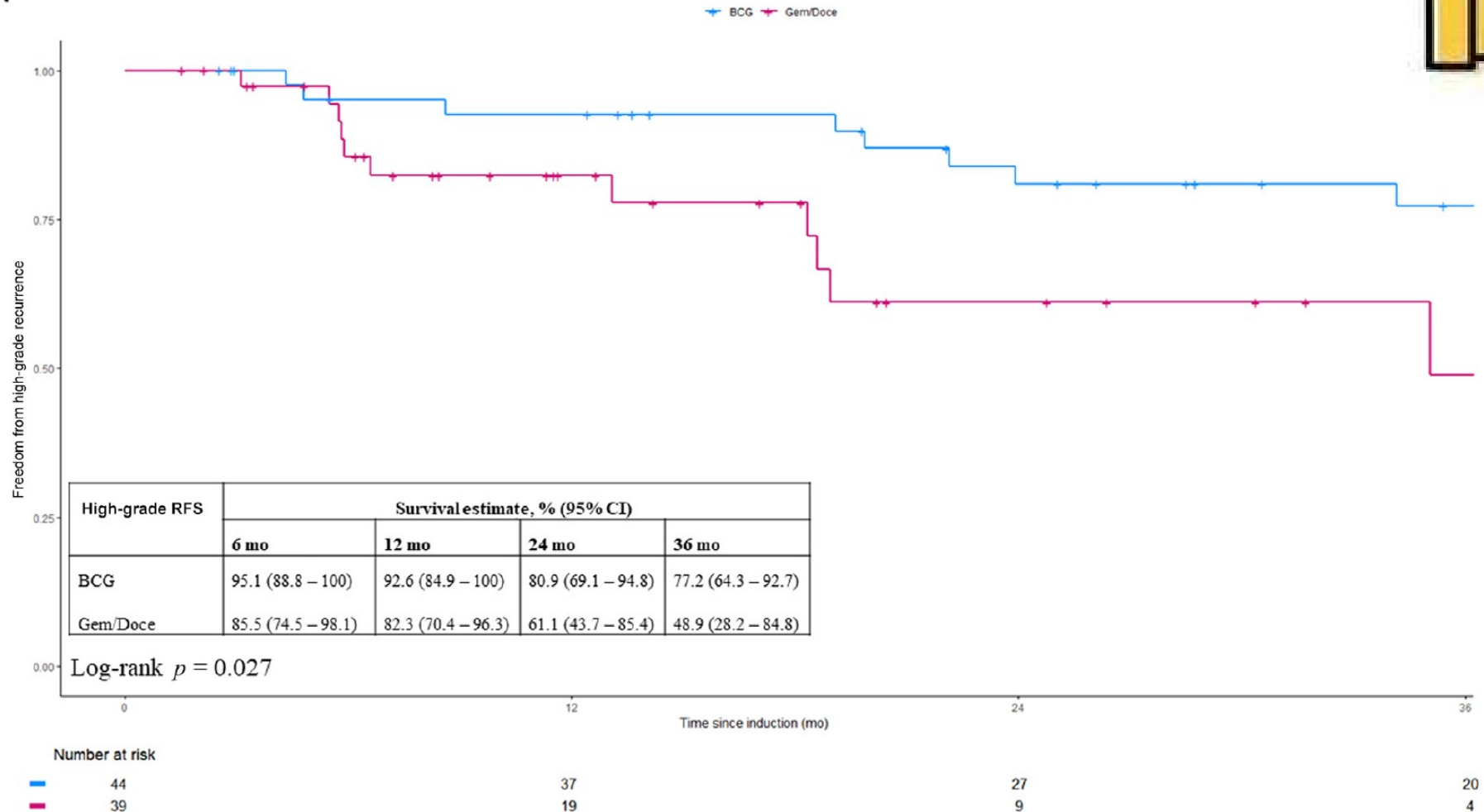
B



# HIGH GRADE RECURRENCE



A

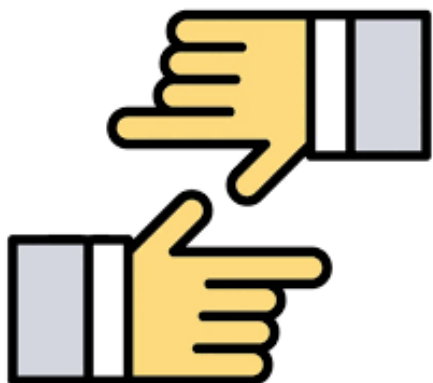
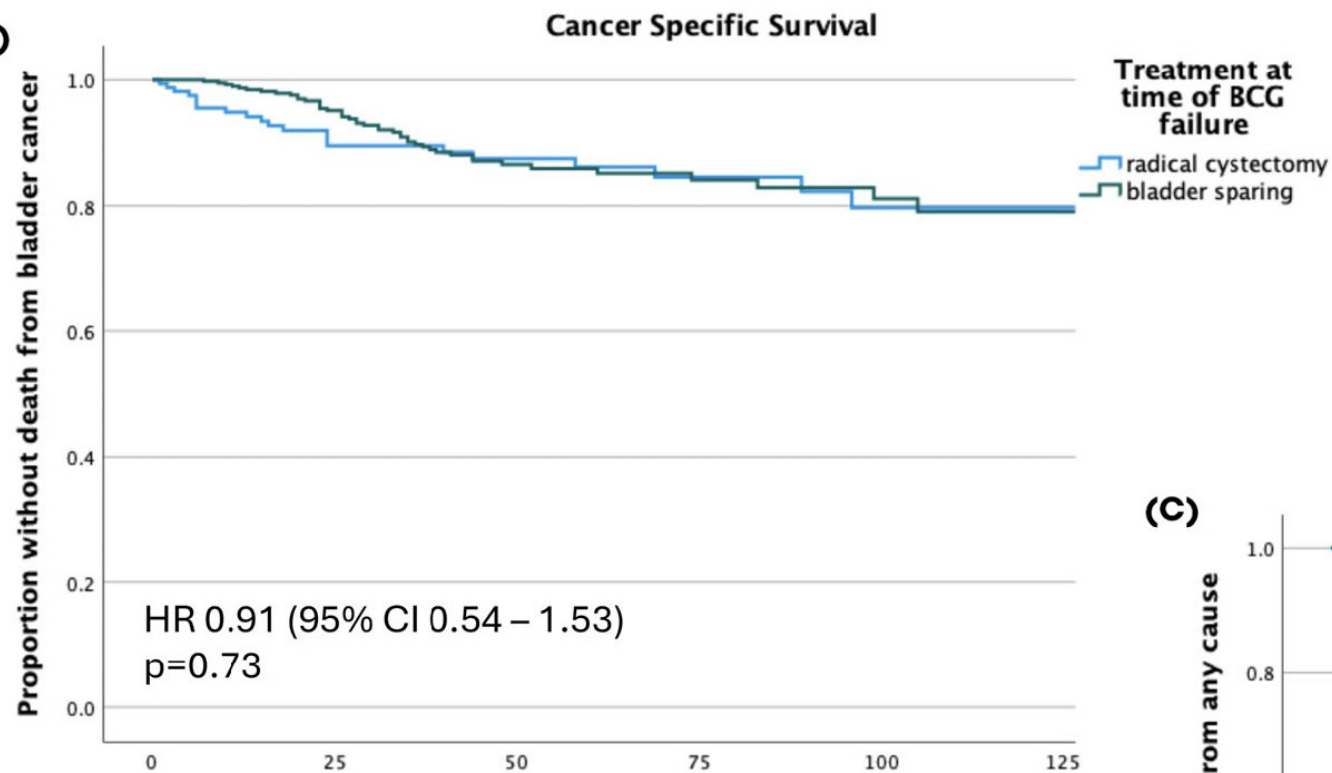
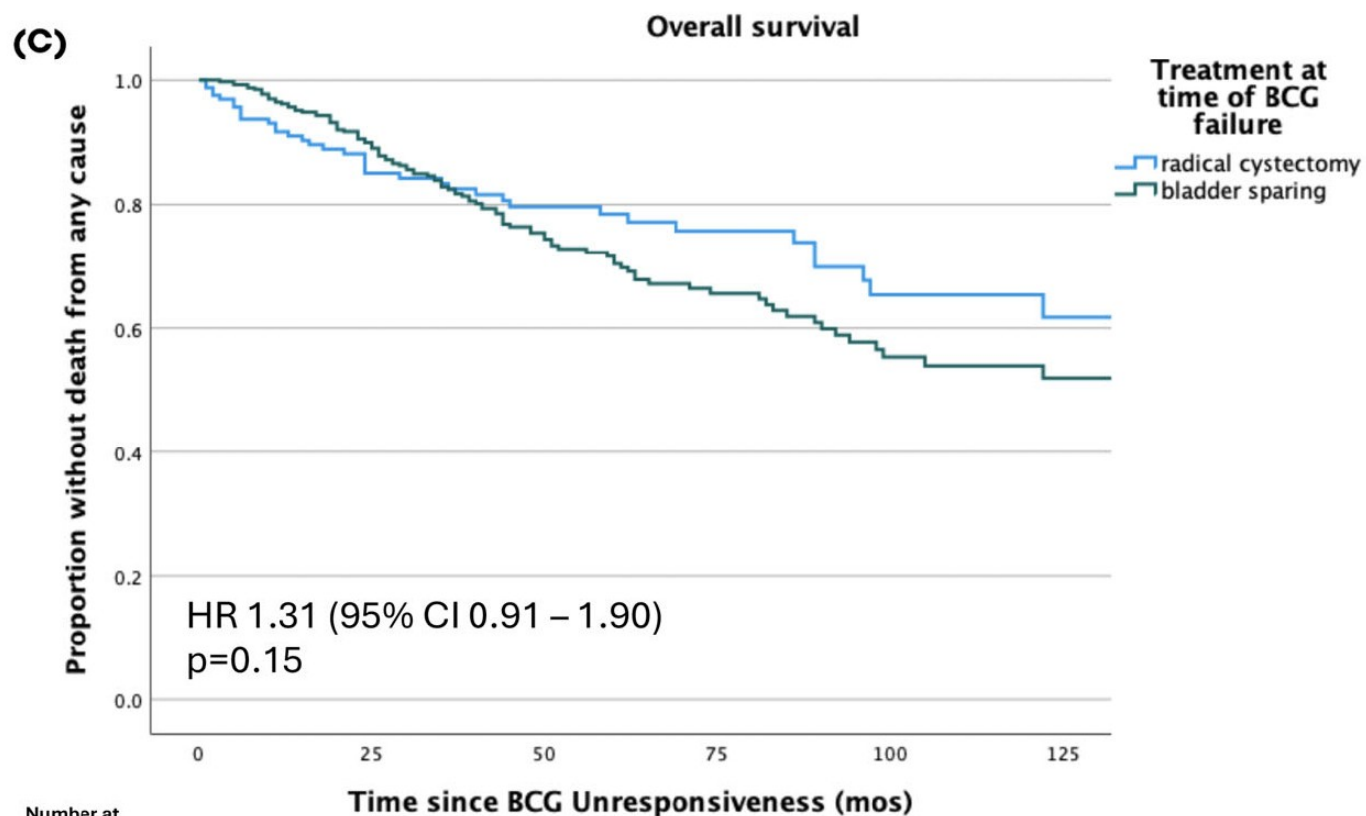


Original Article

Long-term outcomes of bladder-sparing therapy vs radical cystectomy in BCG-unresponsive non-muscle-invasive bladder cancer

Treatment	N (%)
Total patients	416
TMT (chemotherapy/XRT)	2 (0.5)
Continued pure BCG (re-induction or additional maintenance)	160 (38.5)
Alternate BCG (re-induction or additional maintenance)*	44 (10.6)
Alternate intravesical agents	151 (36.2)
Gemcitabine/docetaxel	95 (22.8)
Valrubicin	12 (2.9)
Gemcitabine single agent	13 (3.1)
Mitomycin C	14 (3.4)
Other†	17 (4.1)
Re-TURBT or observation only	29 (7.0)
Systemic immunotherapy‡	29 (7.0)
Partial cystectomy	1 (0.2)



**(B)****(C)**

Number at risk						
RC	162	110	77	48	27	17
BST	416	296	147	79	45	25

# Bladder-sparing Therapy for Bacillus Calmette-Guérin–unresponsive Non–muscle-invasive Bladder Cancer: International Bladder Cancer Group Recommendations for Optimal Sequencing and Patient Selection

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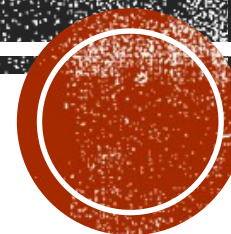
## Chemotherapy-based treatments

- For BCG-U CIS (with or without papillary disease):
    - Single-agent chemotherapy is not recommended.
    - Induction doublet intravesical GEM/DOCE with extended monthly maintenance for at least 12 mo is recommended.
  - For BCG-U high-grade papillary disease, the following may be considered:
    - Induction + maintenance doublet intravesical GEM/DOCE.
    - Induction + maintenance single-agent chemotherapy (eg, GEM, mitomycin C [preferably optimized mitomycin C] [\[22\]](#)).
    - Hyperthermic mitomycin C.
- 





**ADD ON TREATMENT**

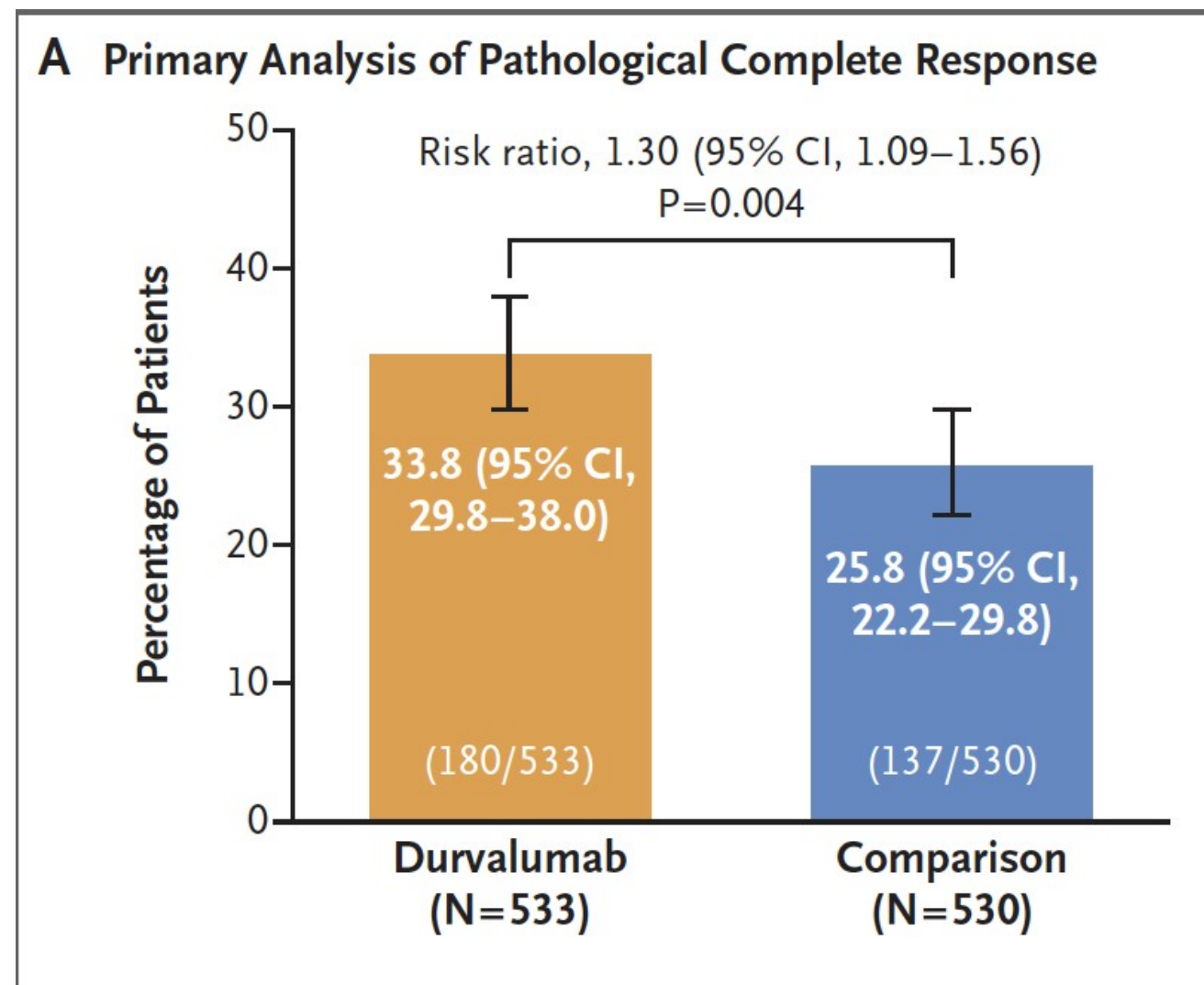


# Perioperative Durvalumab with Neoadjuvant Chemotherapy in Operable Bladder Cancer

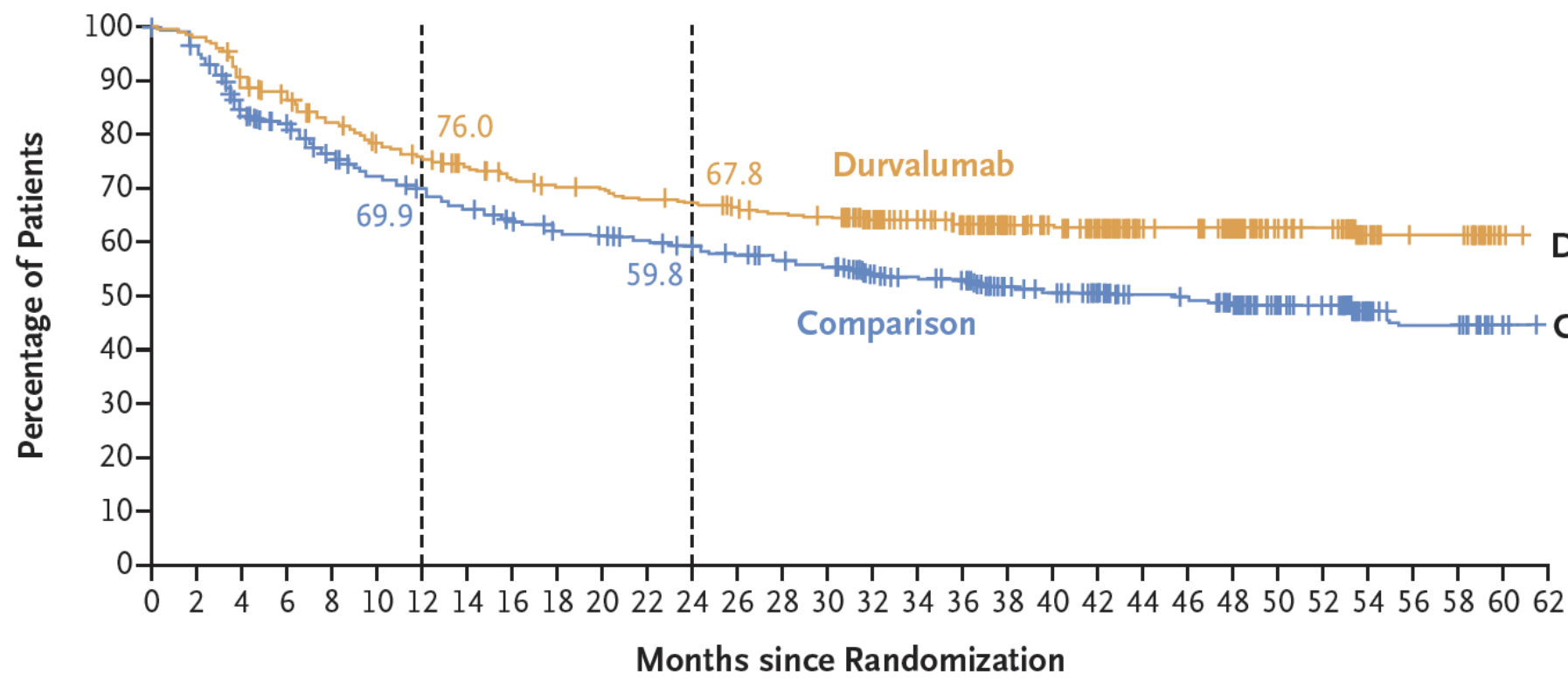
- Open label
  - 1:1 ratio (533 Vs 530)
  - Operable MIBC
- Durvalumab+ Gem Cis 4 cycles  
+ RC+ Adj 8 cycles of  
Durvalumab  
**Vs**  
Gem+ Cisplatin 4 cycles +RC

Histologic type — no. (%)§		
Invasive urothelial carcinoma, not otherwise specified	457 (85.7)	441 (83.2)
Urothelial carcinoma with squamous differentiation	38 (7.1)	49 (9.2)
Urothelial carcinoma with glandular differentiation	10 (1.9)	15 (2.8)
Urothelial carcinoma with other histologic subtype	28 (5.3)	25 (4.7)
Tumor stage — no. (%)§¶		
T2N0	215 (40.3)	213 (40.2)
Higher than T2N0	318 (59.7)	317 (59.8)
Regional lymph-node stage — no. (%)§		
N0	505 (94.7)	500 (94.3)
N1	28 (5.3)	30 (5.7)
Creatinine clearance — no. (%)		
≥60 ml/min/1.73 m²	432 (81.1)	430 (81.1)
40 to <60 ml/min/1.73 m²	101 (18.9)	100 (18.9)
Tumor PD-L1 expression level — no. (%)		
High	389 (73.0)	388 (73.2)

Events
Progression precluding surgery
First recurrence
Death from any cause



A Event-free Survival



	No. of Patients with Event/Total No. (%)	Median Event-free Survival (95% CI) mo
<b>Durvalumab</b>	187/533 (35.1)	NR (NR–NR)
<b>Comparison</b>	246/530 (46.4)	46.1 (32.2–NR)

Hazard ratio for event, 0.68 (95% CI, 0.56–0.82)

Stratified P<0.001 by log-rank test

Median follow-up among patients with censored data, 42.3 mo (range, 0.03–61.3)

No. at Risk

Durvalumab	533	475	424	386	356	344	330	315	282	255	202	141	115	86	81	32	20	20	1	0
Comparison	530	437	381	343	313	296	281	264	228	214	172	122	94	69	62	24	18	16	2	0

Durvalumab	533	517	492	468	446	434	423
Comparison	530	507	467	438	413	392	378

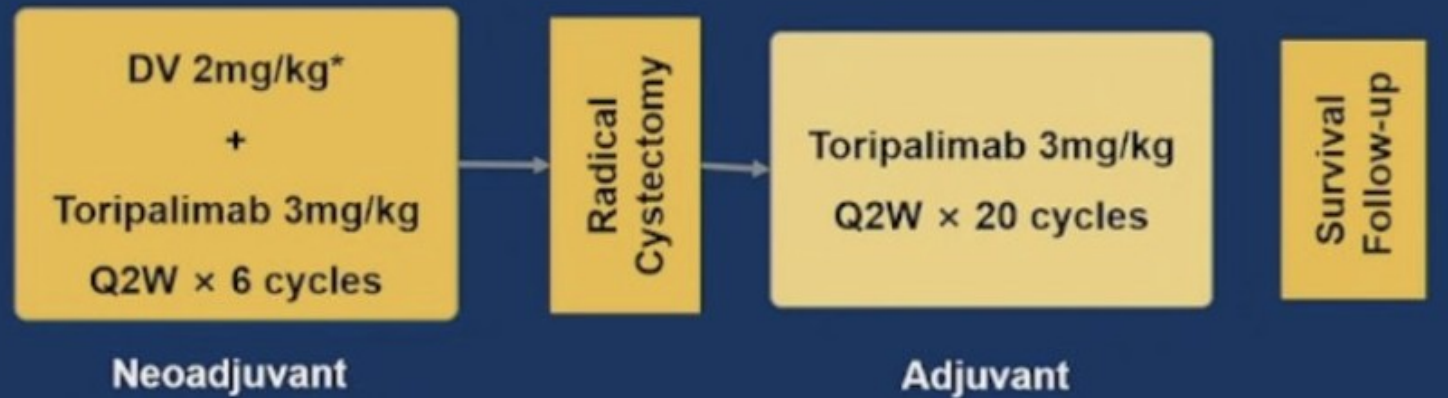
125	96	68	34	21	7	1	0
113	90	60	38	21	10	2	0



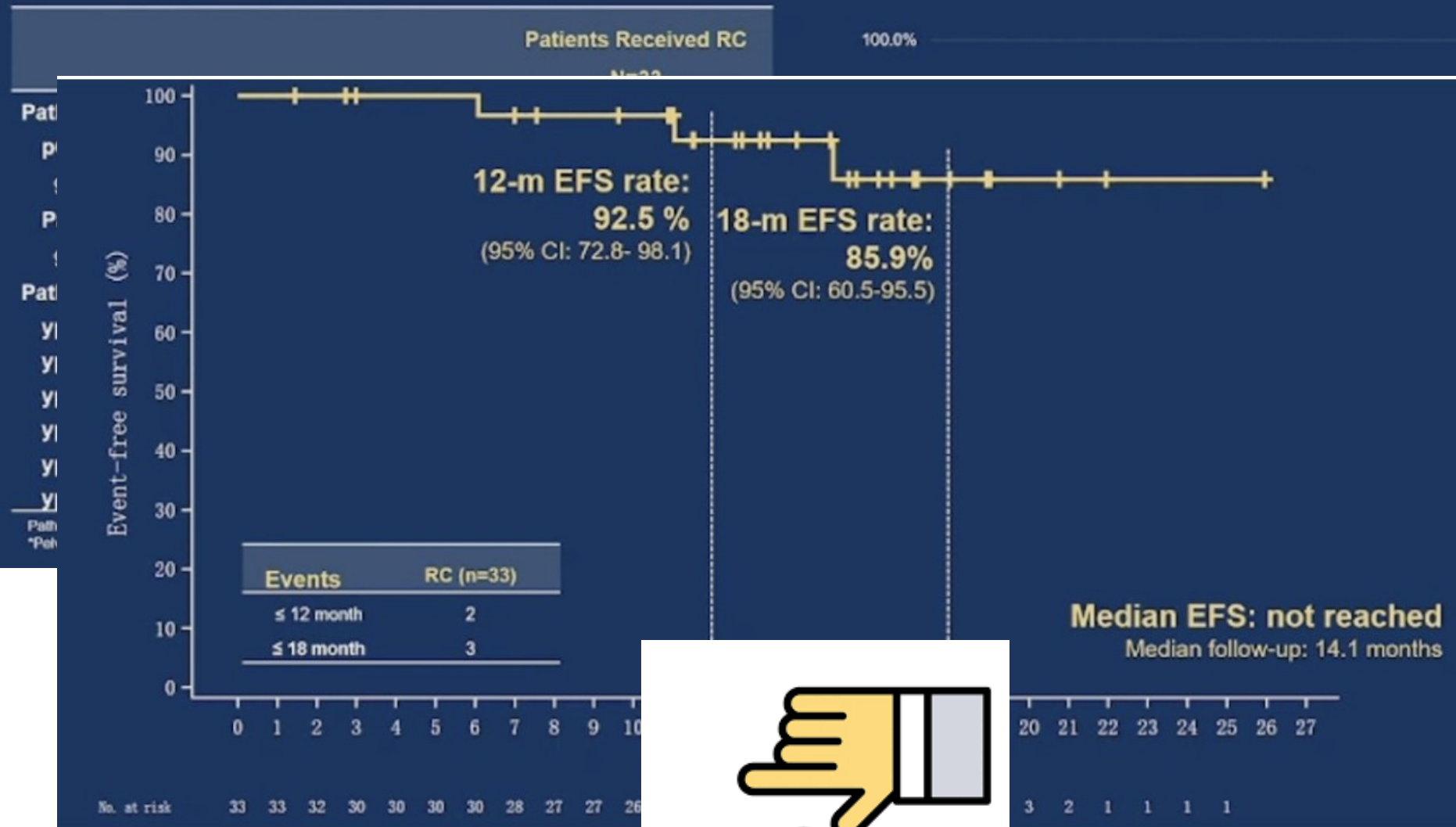
# ASCO GU 2025: Neoadjuvant Treatment with Disitamab Vedotin plus Perioperative Toripalimab in Patients with MIBC with HER2 Expression: Updated Efficacy and Safety Results from the Phase II RC48-C017 Trial

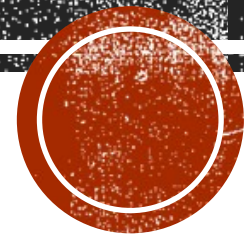
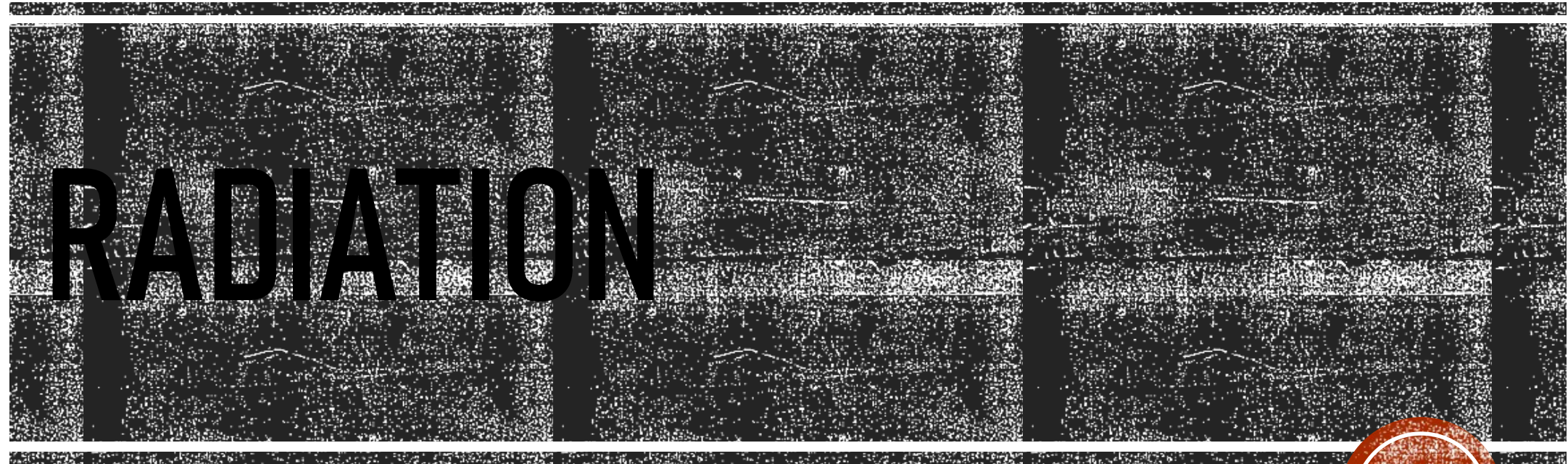
## Key Eligible Criteria:

- Histologically confirmed urothelial carcinoma;
- MIBC at stage of cT2-T4a, N0-1, and M0;
- Eligible for radical cystectomy (RC) + pelvic lymph node dissection (PLND);
- HER2 expression: IHC 1+, 2+, or 3+.




















# Bladder-Preserving Trimodality Treatment for High-Grade T1 Bladder Cancer: Results From Phase II Protocol NRG Oncology/RTOG 0926

Douglas M. Dahl, MD<sup>1</sup> ; Joseph P. Rodgers, MS<sup>2</sup>; William U. Shipley, MD<sup>2</sup> ; M. Dror Michaelson, MD, PhD<sup>2</sup> ; Chin-Lee Wu, MD, PhD<sup>2</sup>; William Parker, MSc<sup>3</sup>; Ashesh B. Jani, MD<sup>4</sup> ; Fabio L. Cury, MD<sup>3</sup> ; Richard S. Hudes, MD<sup>5</sup> ; Jeff M. Michalski, MD<sup>6</sup> ; Alan C. Hartford, MD, PhD<sup>7</sup>; Daniel Song, MD<sup>8</sup>; Deborah E. Citrin, MD<sup>9</sup> ; Theodore G. Karrison, PhD<sup>2</sup>; Howard M. Sandler, MD<sup>10</sup> ; Felix Y. Feng, MD<sup>11</sup> ; and Jason A. Efstathiou, MD<sup>1</sup> 

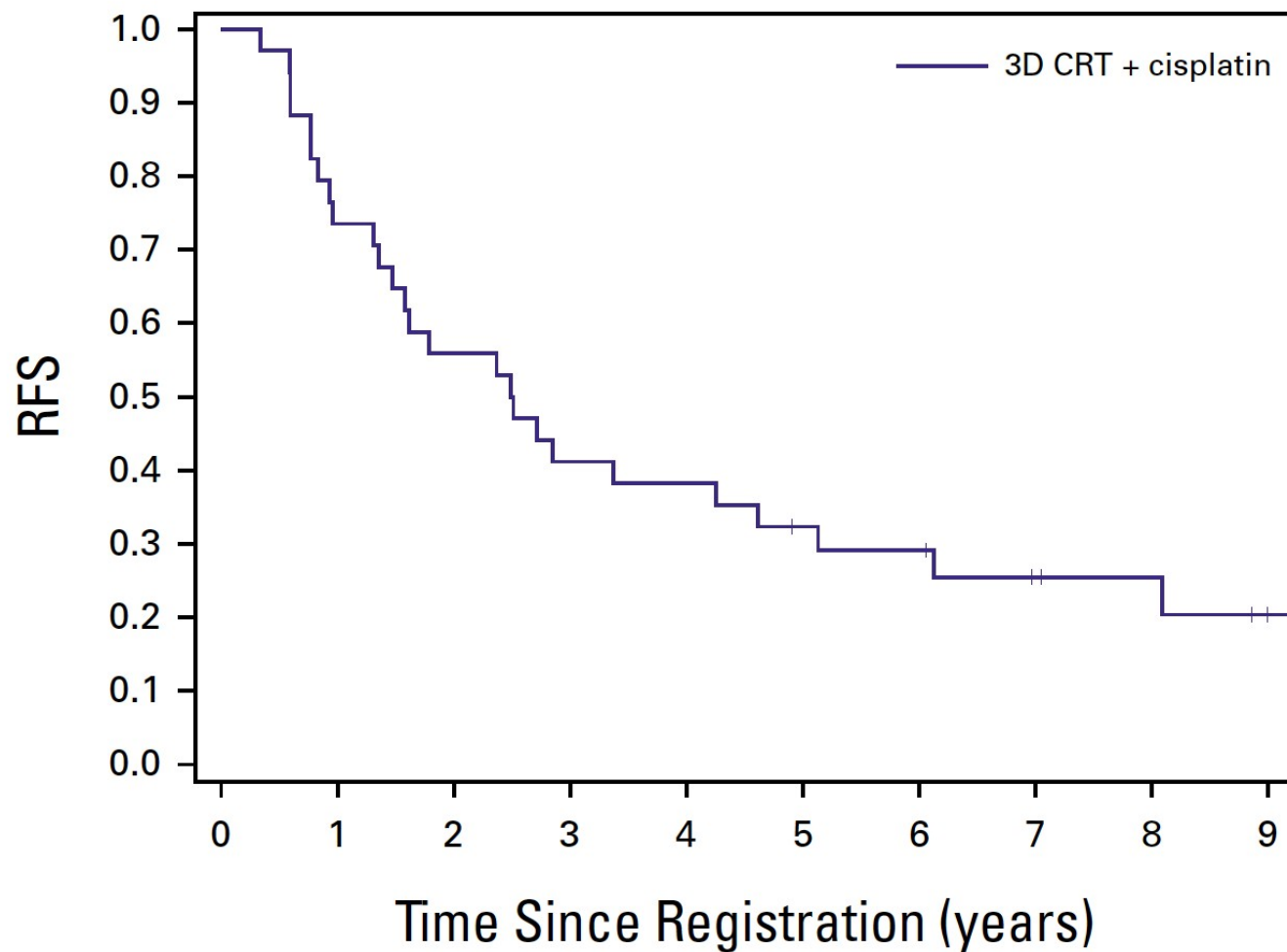
**TABLE 2.** Three and 5-Year Overall Survival

Year	Estimate, %	95% CI	Cumulative Failures
0	100.0	—	0
3	69.5	53.7 to 85.3	10
5	56.4	39.1 to 73.7	14

Dead/total: 18/34

**CONCLUSION** Trimodality therapy is an effective potential alternative to radical cystectomy for recurrent high-grade T1 urothelial cancer of the bladder. At 3 years, 88% of the patients remained free of cystectomy.





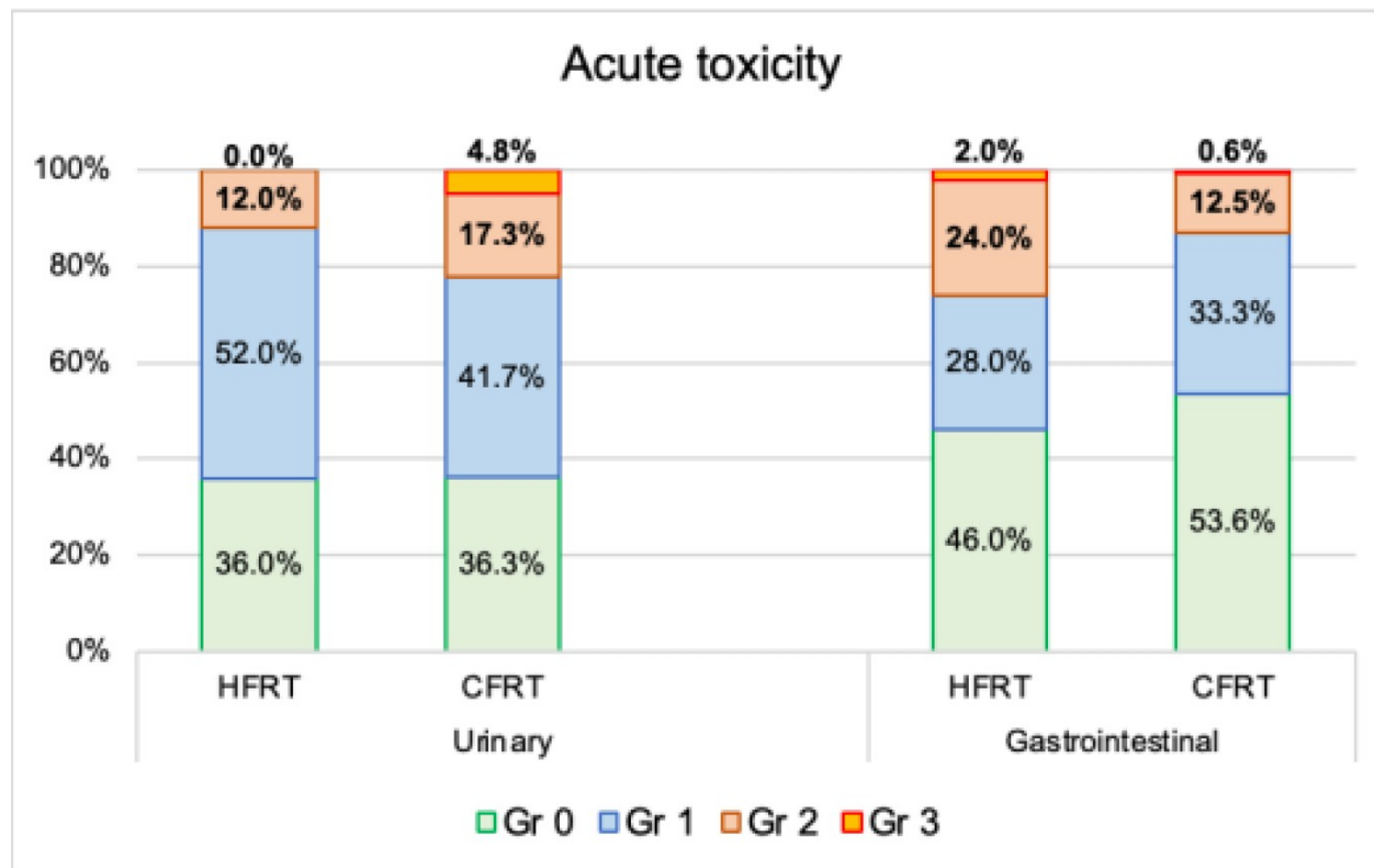
### Knowledge Generated

Trimodality therapy resulted in bladder preservation in 89% of patients otherwise facing cystectomy. In those who underwent cystectomy, none was found to have muscle-invasive disease. Cancer-specific survival was comparable with that seen in patients with T1 disease who are treated by cystectomy.



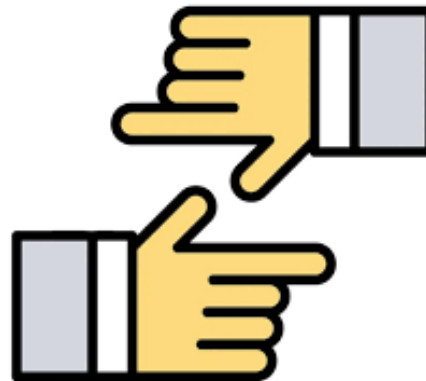
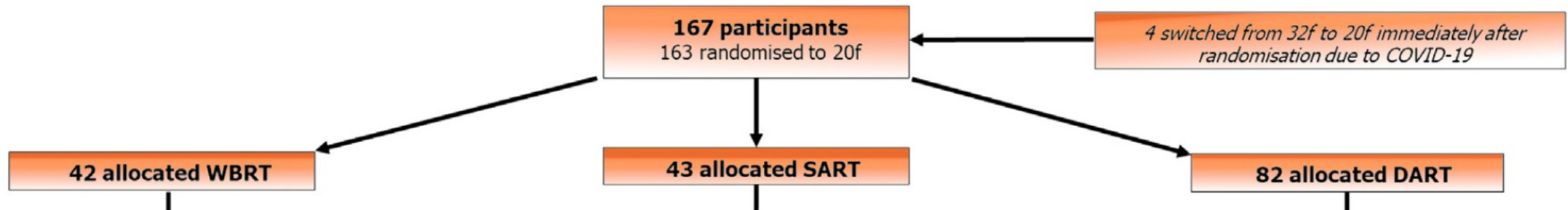
## Hypofractionated chemoradiotherapy for bladder preservation in muscle-invasive bladder cancer

CFRT 60-64 Gy in 30-32 fractions Vs 55 Gy in 20 fractions in HFRT





# Dose-escalated Adaptive Radiotherapy for Bladder Cancer: Results of the Phase 2 RAIDER Randomised Controlled Trial



# **Bladder Adjuvant Radiation Therapy (BART): Acute and Late Toxicity From a Phase III Multicenter Randomized Controlled Trial**

## **Post RC**

pT3-4

pN1-3

Nodal yield <10,

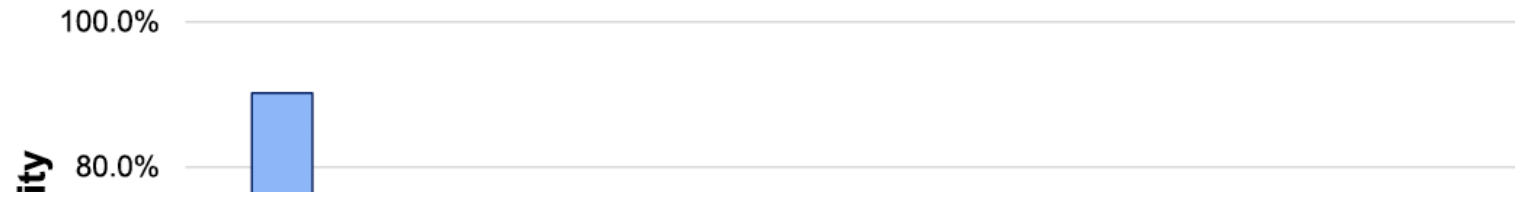
Positive margin

cT3 Down staged NACT



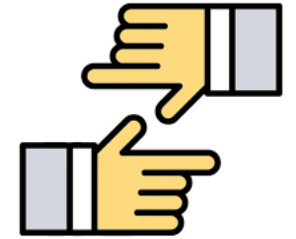
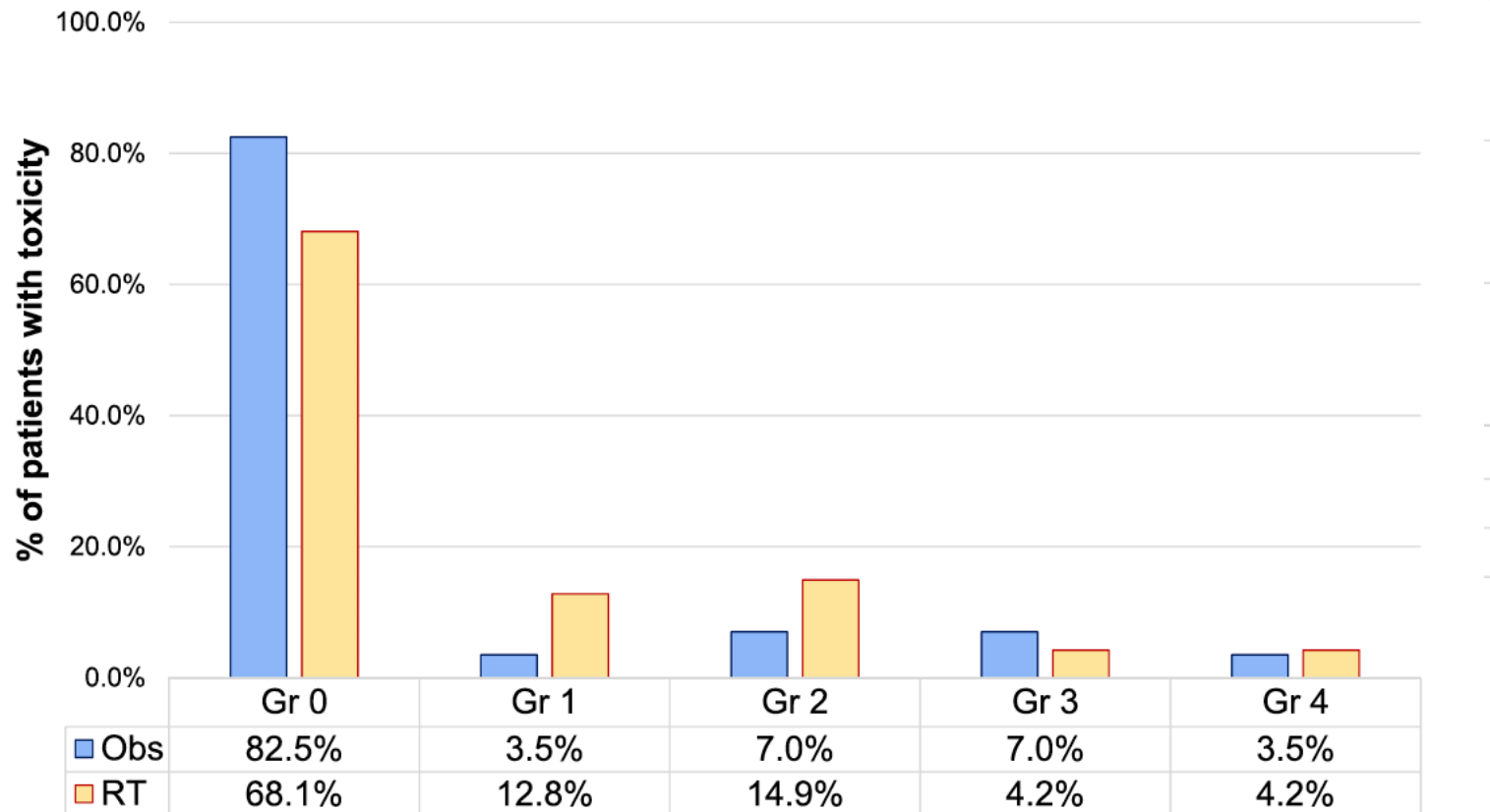
A

## Acute CTCAE toxicity



## Late CTCAE toxicity

B



# KEY MESSAGES

- BCG is still the King
- Perioperative Treatment might be the new SOC

