

3rd Annual Southern California Genitourinary Cancer Research Forum

Panel: Bladder Studies (NMIBC; MIBC; Metastatic, 1st; Metastatic; Salvage)

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Speakers:

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Nataliya Mar, MD

Leslie Ballas, MD

Nikita V. Baclig, MD

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- *Consultant for Photocure, Pacific Edge, Ferring, BMS, Johnson and Johnson, Protara, Urogen, Pfizer, CG Oncology, Vesica Health, Immunitybio, Engene, and AstraZeneca.*

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This presentation and/or comments will be free of any bias toward or promotion of the above referenced companies or their product(s) and/or other business interests.

This presentation and/or comments will provide a balanced, non-promotional, and evidence-based approach to all diagnostic, therapeutic and/or research related content.

This presentation has been peer-reviewed and no conflicts were noted.

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- *No relevant financial relationships with any ineligible companies.*

This presentation and/or comments will be free of any bias toward or promotion of the above referenced companies or their product(s) and/or other business interests.

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The off-label/investigational use of Nexus ADC for Nectin-4, Vepugratinib, Relatlimab/Nivolumab (MODERN trial), Dato-DXD.

Cultural Linguistic Competency (CLC) & Implicit Bias (IB)

STATE LAW:

The California legislature has passed [Assembly Bill \(AB\) 1195](#), which states that as of July 1, 2006, all Category 1 CME activities that relate to patient care must include a cultural diversity/linguistics component. It has also passed [AB 241](#), which states that as of January 1, 2022, all continuing education courses for a physician and surgeon **must** contain curriculum that includes specified instruction in the understanding of implicit bias in medical treatment.

The cultural and linguistic competency (CLC) and implicit bias (IB) definitions reiterate how patients' diverse backgrounds may impact their access to care.

EXEMPTION:

Business and Professions Code 2190.1 exempts activities which are dedicated solely to research or other issues that do not contain a direct patient care component.

The following CLC & IB components will be addressed in this presentation:

- *Making sure underserved populations are particularly addressed.*
- *Disparities in access to care.*
- *Responses in different populations.*
- *Potential health disparities in delivery of bladder cancer care.*
- *The care of women with bladder cancer.*
- *The lack of understanding of sexual function in women following treatment for bladder cancer and the barriers in discussing this with this patient population.*

Non-Muscle Invasive Bladder Cancer

Case presentation

A 74-year-old man presents with **painless gross hematuria**. Cystoscopy and TURBT reveal a **4-cm papillary bladder tumor**, with final pathology demonstrating **high-grade T1 urothelial carcinoma**. Given **high-risk NMIBC**, further risk-adapted clinical trial options are considered.

- High-risk non-muscle invasive bladder cancer, treatment naïve.

ResQ132EX: Expanded Access
use of Recombinant Bacillus
Calmette-Guerin in Non-Muscle
Invasive Bladder Cancer study.

**Recombinant BCG (rBCG)
Expanded Access Program
(EAP)**

NCT06810141

Promising rBCG Clinical Trials – SAKK 06/14 Phase 2

STUDY DESIGN

- Multicenter, open-label, single arm, Phase II European study investigating **intravesical VPM1002BC (rBCG) in patients with recurrent IR or HR NMIBC after conventional BCG therapy**
- Enrolled n=40 patients with recurrent HG NMIBC after ≥ 5 BCG instillations (induction) \pm BCG maintenance (n=27 any CIS)
- Primary endpoint: Recurrence Free Rate (RFR) @ 60 wks (1 yr)
 - Positive cytology or cystoscopy required histological proof of recurrence
- rMBCG dose: $1-19.2 \times 10^8$ CFU/50mL saline solution
- Dosing schedule: 6 weekly instillations of VPM1002BC followed by 3 weekly instillations at 3, 6, and 12 months

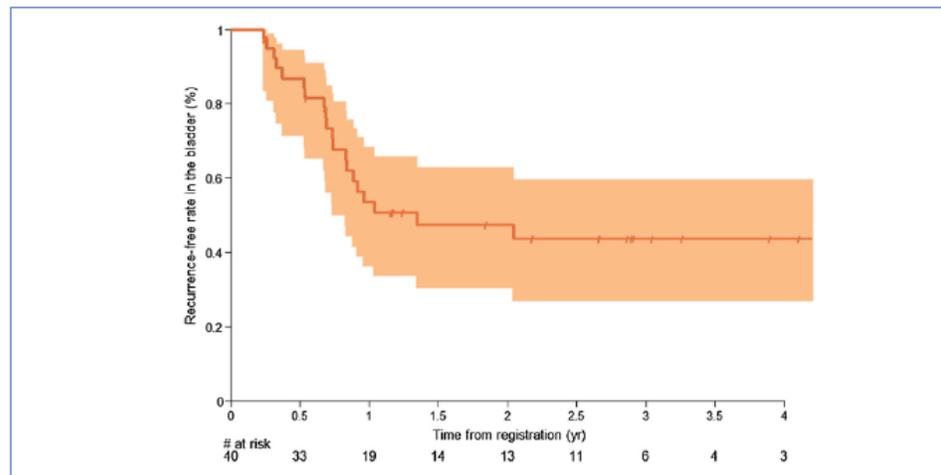


Fig. 2 – Kaplan-Meier plot for time to recurrence in the bladder for the full analysis set (median follow-up 2.9 yr, 95% confidence interval 2.7–3.3).

RESULTS

- Safety: No \geq Grade 4 AEs, 14.3% Grade 1 TRAEs, 54.8% Grade 2 TRAEs, 4.8% Grade 3 TRAEs
- Tolerability: Well-tolerated; 95% received >4 instillations during induction
- Efficacy: 49% 1 yr RFR, 47% 2 yr RFR, 44% 3 yr RFR (met primary endpoint with stable durability)
 - Progression Free Rate: 77% @ 1, 2, and 3 yrs
 - 56% CIS patients had CR @ 12 weeks with 1.1 yr mDoR (upper bound not reached)
 - OS Rate: 93% @ 1 yr, 78% @ 2 yrs & 3 yrs

Table 5 – Treatment-associated adverse events in the treatment phase

Adverse event	Patients, n (%)		
	Grade 1	Grade 2	Grade 3
Vertigo		1 (2.4)	
Gastrointestinal disorders	2 (4.8)		
Fatigue	2 (4.8)	3 (7.1)	
Fever	2 (4.8)	1 (2.4)	
Frequency, urgency	7 (16.7)	5 (11.9)	
Malaise	1 (2.4)		
BCG-induced systemic inflammatory reaction		1 (2.4)	
Cold		1 (2.4)	
Genitourinary infection		14 (33.3)	2 (4.8)
Alanine aminotransferase increased		1 (2.4)	
Neuralgia		1 (2.4)	
Haematuria	2 (4.8)		
Macrohaematuria	1 (2.4)		
Urinary retention	1 (2.4)		
Urinary tract obstruction	1 (2.4)	1 (2.4)	
Urinary tract pain	6 (14.3)	1 (2.4)	
Vaginal pain		1 (2.4)	
Skin affection	3 (7.1)	2 (4.8)	
Thromboembolic event		1 (2.4)	

CFU = Colony Forming Units, CR = Complete Response, mDoR = Median Duration of Response; OS = Overall Survival, IR = Intermediate Risk, High Risk

Key Protocol Instructions

2.1. Study Design

All treatment decisions, and all post treatment follow-up, will be made according to the institutions' standard of care.

3.1.1. Inclusion Criteria and Contraindications

Participants must meet the inclusion criteria and contraindications determined by the standards of their institution per the TICE BCG label. In BCG naïve subjects with NMIBC, enrollment should occur only if TICE BCG is unavailable.

5.1. Procedures and Evaluations

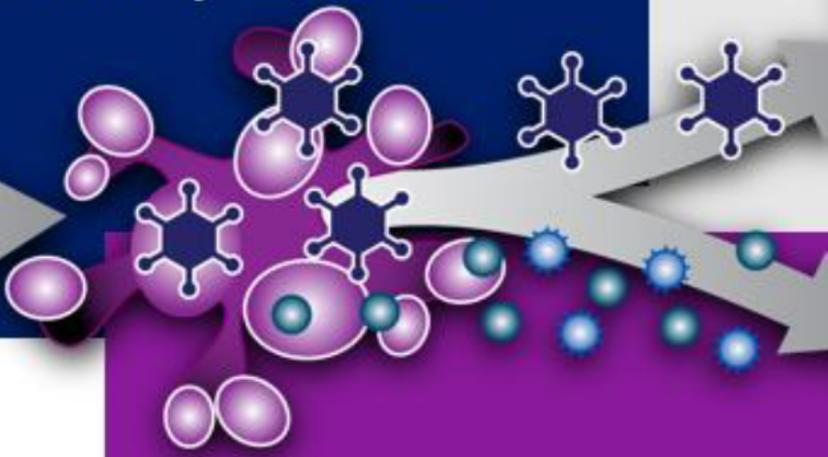
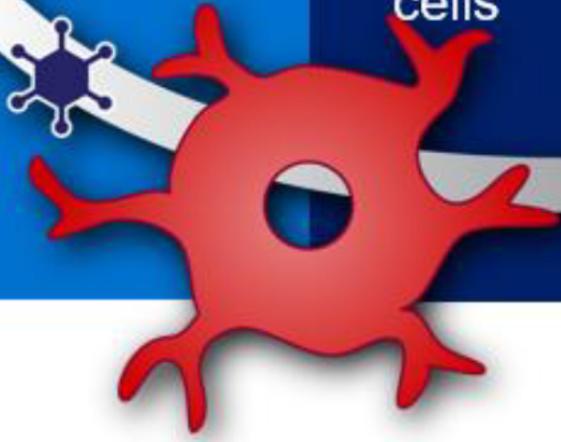
The procedures and evaluations to be performed in this study will be according to the institution's standard of care per the standard of care of approved TICE BCG.

Oncolytic Immunotherapy: Cretostimogene Grenadenorepvec's Dual Mechanism of Action

1 Selectively Replicates in and Lyses Bladder Cancer Cells

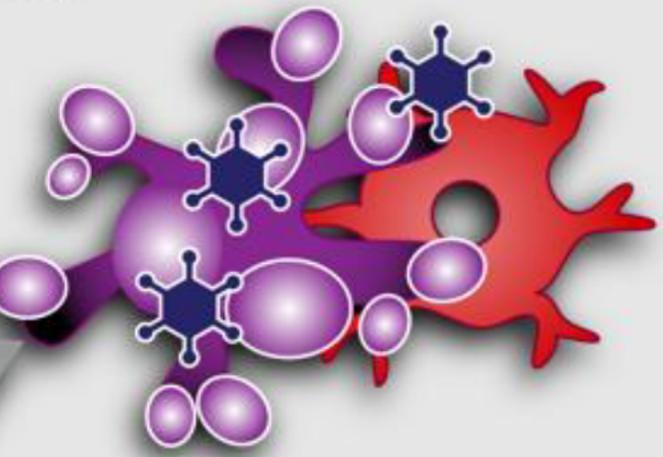
Enters target cell

Replicates in and lyses cancer cells

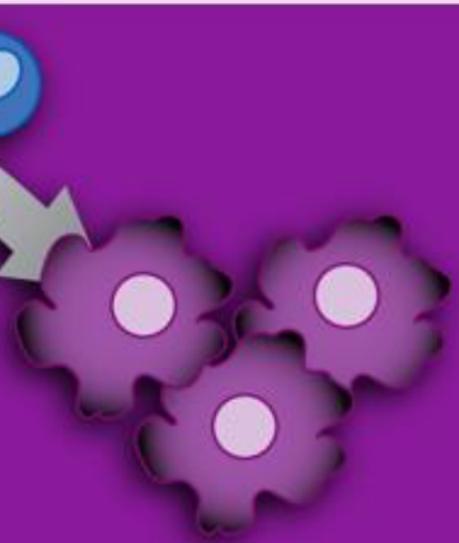


2 Simultaneously Amplifies Anti-tumor Immune Response

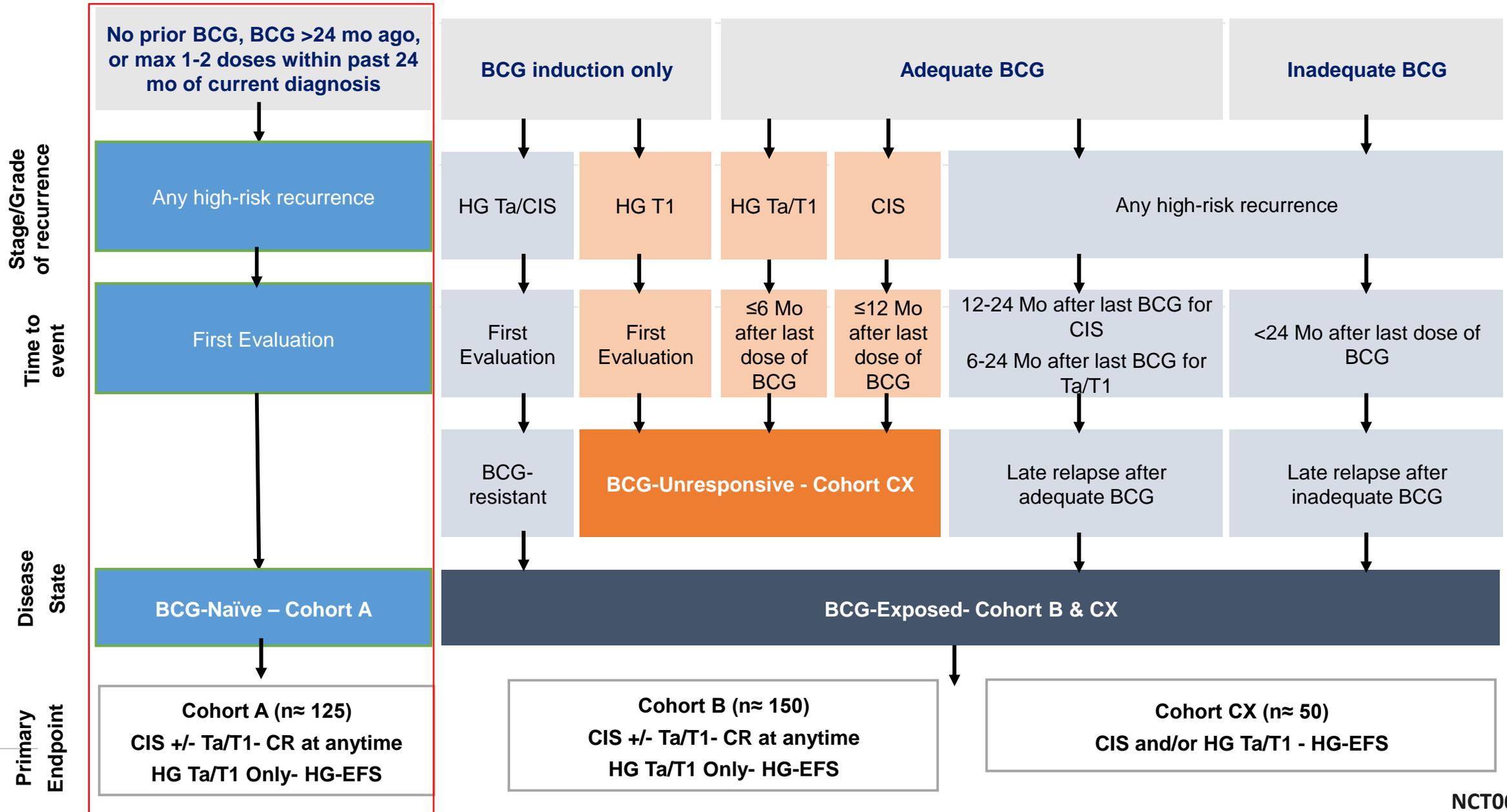
Innate to Adaptive Immune Switch:
Cytokine and antigen release
activates T & B-cells, inducing
immunologic memory



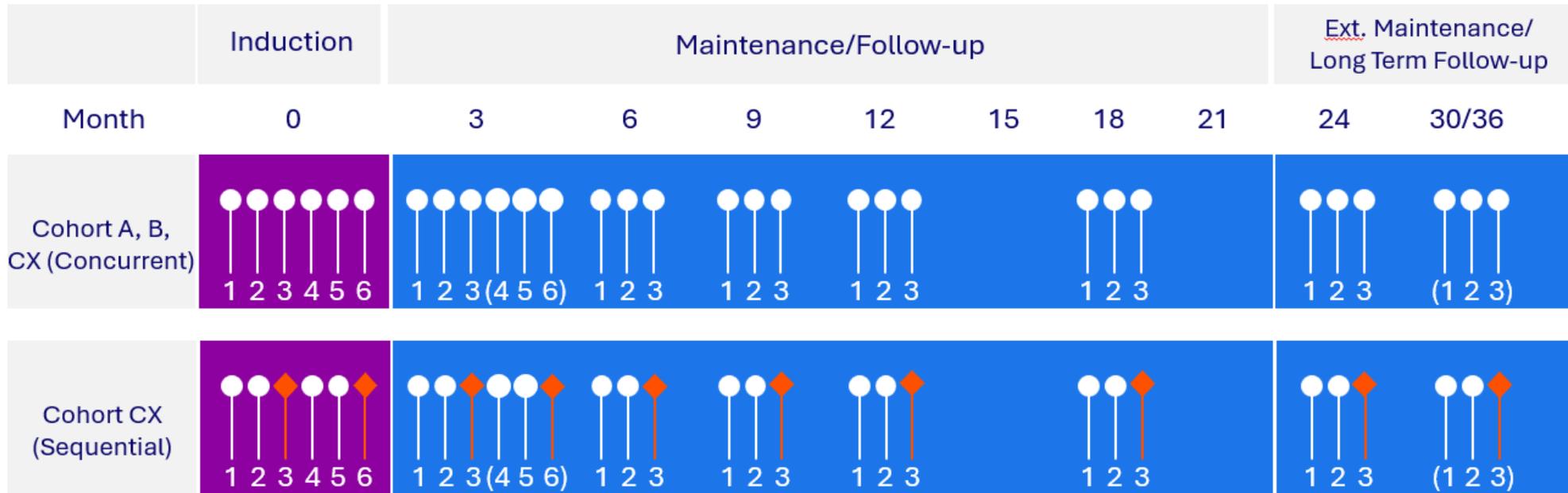
Chain Reaction of Cancer Cell Death:
Viral progeny spread to additional
tumor cells



CORE-008: Phase 2, Multi-Cohort Trial in HR NMIBC

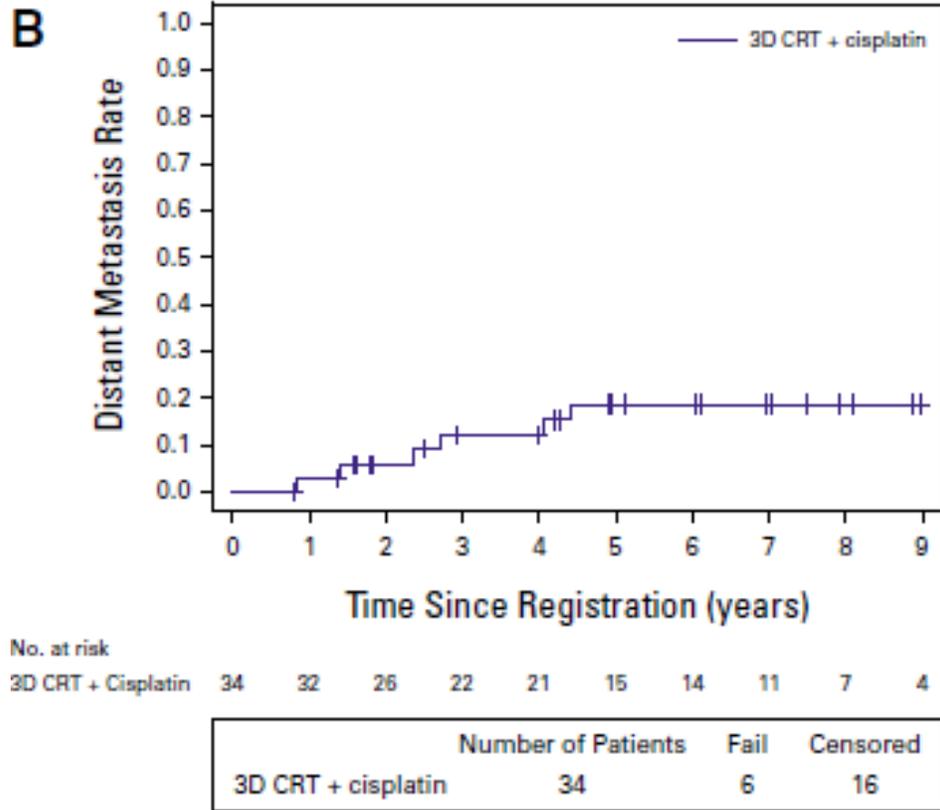


Treatment & Assessment Schedule

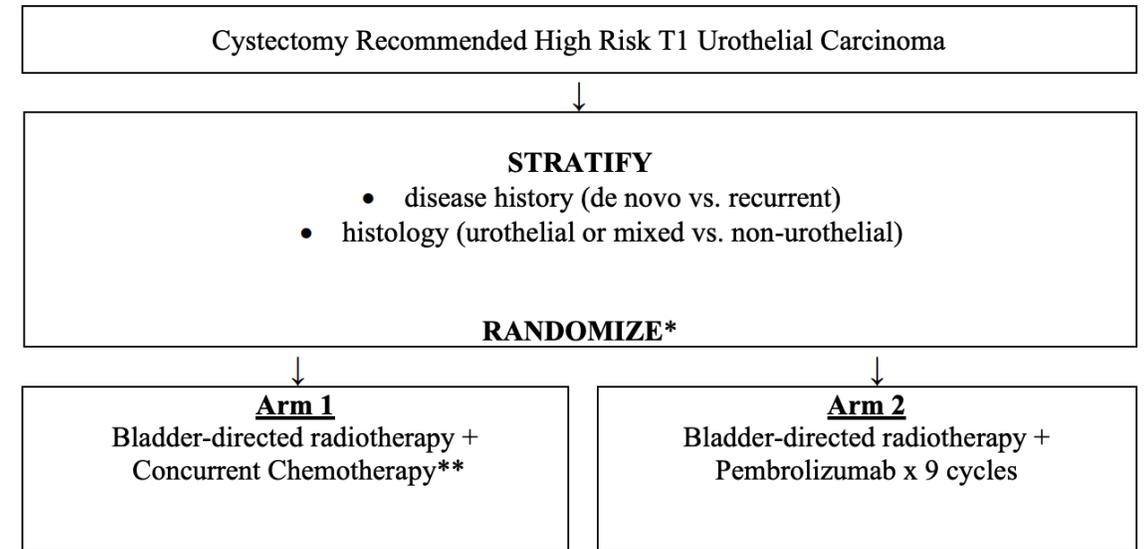


- Re-induction allowed for patients with HG Ta and/or CIS at Month 3
- Randomized 1:1 (Original 5-step [Arm 1] or Optimized 2-step [Arm 2] administration)
- Cystoscopy & Cytology every 3 months with mandatory mapping biopsies at 12 Mo
- CT/MRU every 6 months
- Treatment is optional in Year 3

RTOG 0926



NRG-GU014 Schema



*Randomization is 1:1

** Chemotherapy is physician's choice regimens below:

- Cisplatin
- Gemcitabine
- Mitomycin-C
- 5-Fluorouracil

Case presentation

A 68-year-old man with a history of **high-grade NMIBC** previously treated **with BCG** presents with persistent urinary urgency and positive urine cytology. Repeat cystoscopy and TURBT **reveal CIS**, without evidence of muscle-invasive disease. He is interested in exploring bladder-preserving clinical trial options.

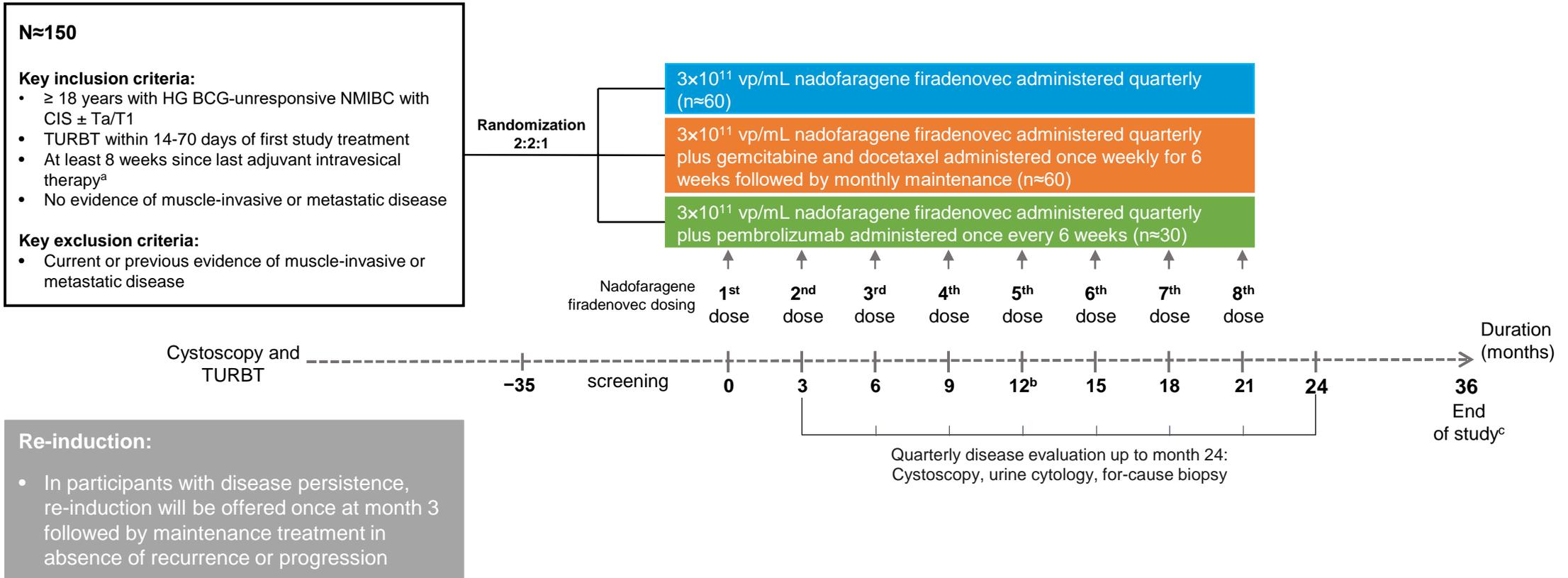
- High-grade non-muscle invasive bladder cancer, BCG refractory

ABLE-22: Safety and efficacy evaluation of nadofaragene firadenovec-vncg alone or in combination with chemotherapy or immunotherapy — a randomized, open-label, phase 2 study

Siamak Daneshmand,¹ Stephen Boorjian,² Joshua Meeks,³ Trinity Bivalacqua,⁴ Yair Lotan,⁵ Wassim Kassouf,⁶ Girish Kulkarni,⁷ Paolo Gontero,⁸ Peter Albers,⁹ Jørn S. Jakobsen,¹⁰ Kristian Juul¹⁰

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ABLE-22: Study Design



BCG, Bacillus Calmette-Guérin; CIS, carcinoma in situ; HG, high-grade; NMIBC, non-muscle-invasive bladder cancer; TURBT, transurethral resection of bladder tumor; vp, viral particle.

^aExcluding a single postoperative dose of a cytotoxic agent following TURBT or BCG therapy within ≥5 weeks before biopsy required for study entry.

^bContinued treatment after month 12 will be offered in absence of disease recurrence or progression following first instillation.

^cData will be collected annually up to month 36 from participants who have completed the month 24 assessment visit or who have discontinued treatment due to disease recurrence or progression.

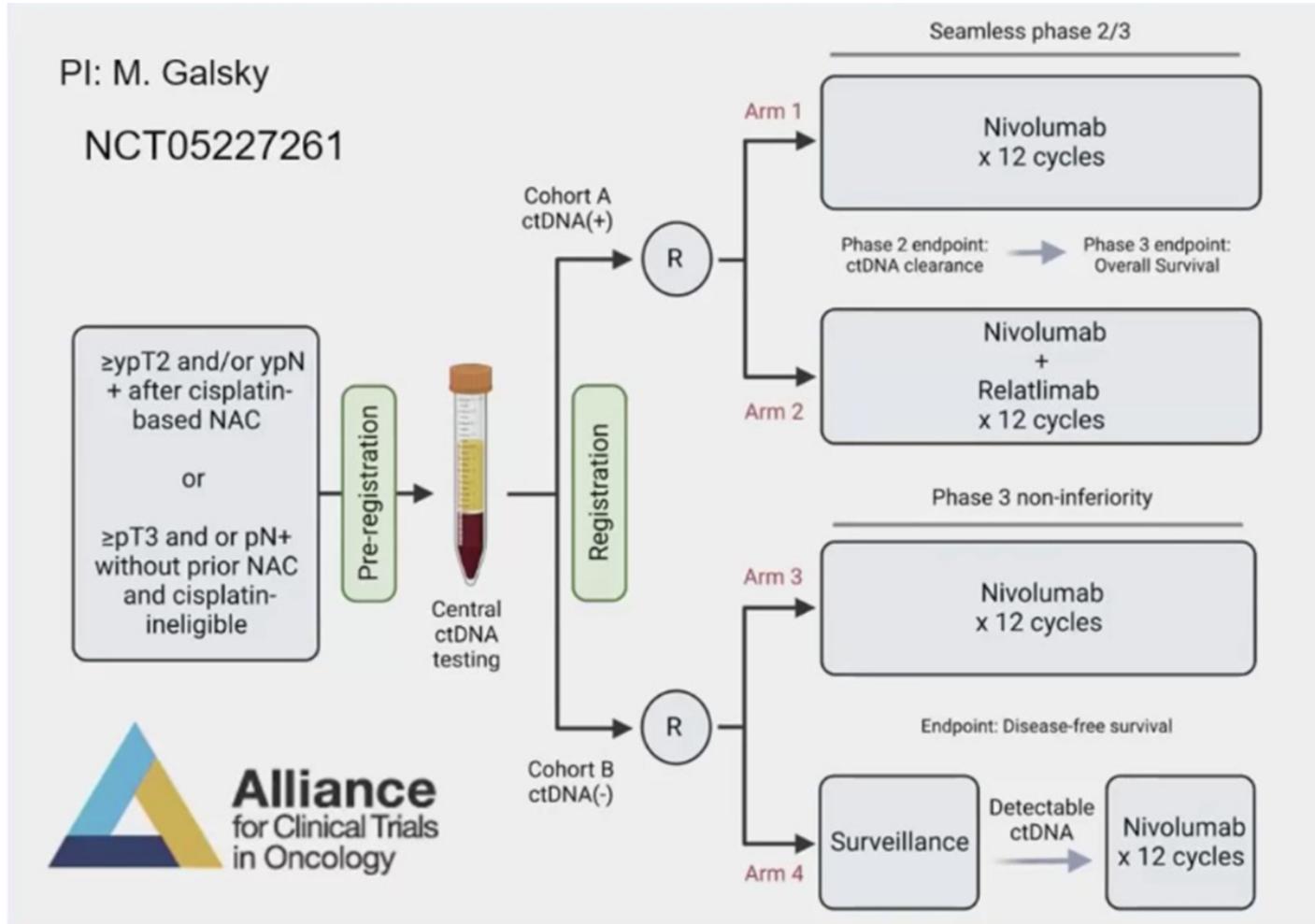
Muscle Invasive Bladder Cancer

Case presentation

A 62-year-old woman with cT2 muscle-invasive disease receives **four cycles of neoadjuvant cisplatin/gemcitabine** and subsequently undergoes radical cystectomy with pelvic lymph node dissection. Pathologic evaluation demonstrates **residual disease**. She is considered for adjuvant therapy clinical trials aimed at improving long-term outcomes.

- Muscle-invasive bladder cancer, s/p NAC and cystectomy + PLND

MODERN: An Integrated Phase 2/3 and Phase 3 Trial of MRD-Based Optimization of ADjuvant ThErapy in URothelial CaNcer



*patients with pT2N0 (distinct from ypT2N0) will be eligible IF ctDNA (+)

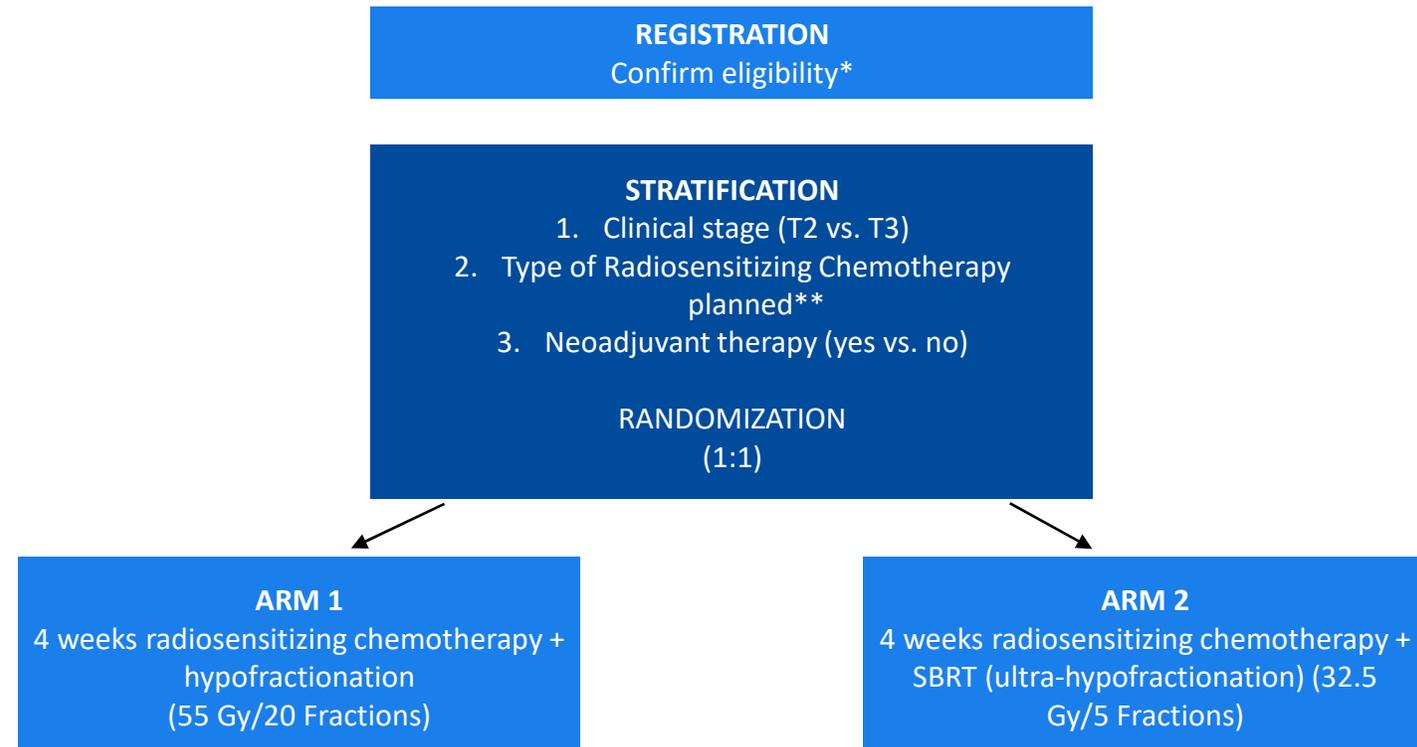
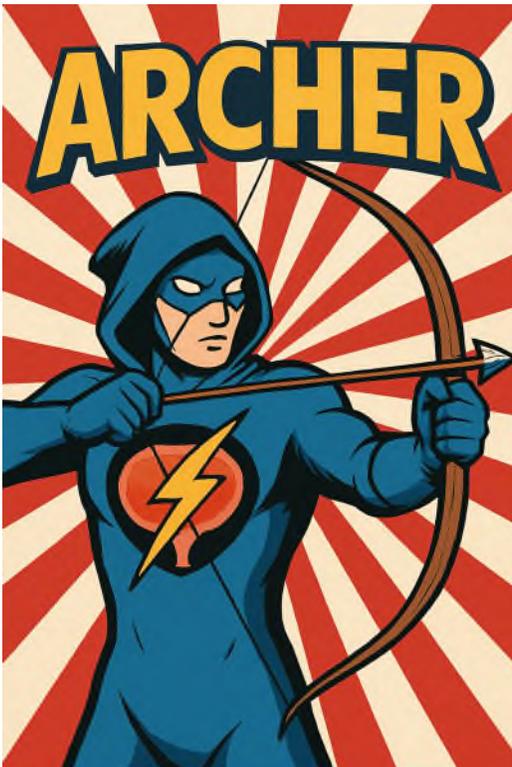
Case presentation

A 62-year-old woman with **cT2 muscle-invasive** bladder cancer is evaluated in a multidisciplinary clinic. While a surgical candidate, she wishes to pursue **bladder-sparing approaches**. Clinical trials exploring non-cystectomy treatment strategies are discussed.

- Muscle-invasive bladder cancer, treatment naïve

NRG GU015: RANDOMIZED PHASE III TRIAL ADAPTIVE RADIATION AND CHEMOTHERAPY FOR MUSCLE INVASIVE BLADDER CANCER (ARCHER) ARCHER

Schema

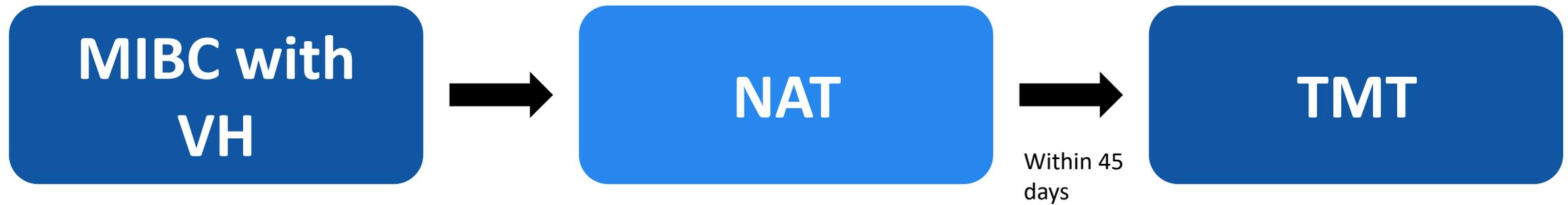


*See protocol section 3.1 for details

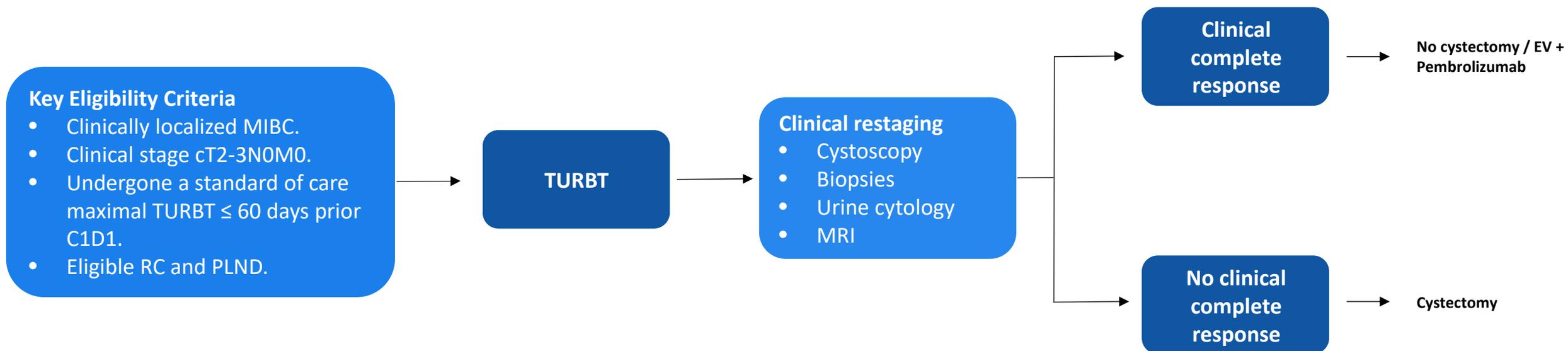
**Types of chemotherapy regimens are:

- Cisplatin
- Gemcitabine
- Mitomycin-C/5-Fluorouracil

Cedars-Sinai VH IIT



HCRN GU22-598: Enfortumab vedotin plus pembrolizumab with Risk Adapted Individualized Bladder Sparing

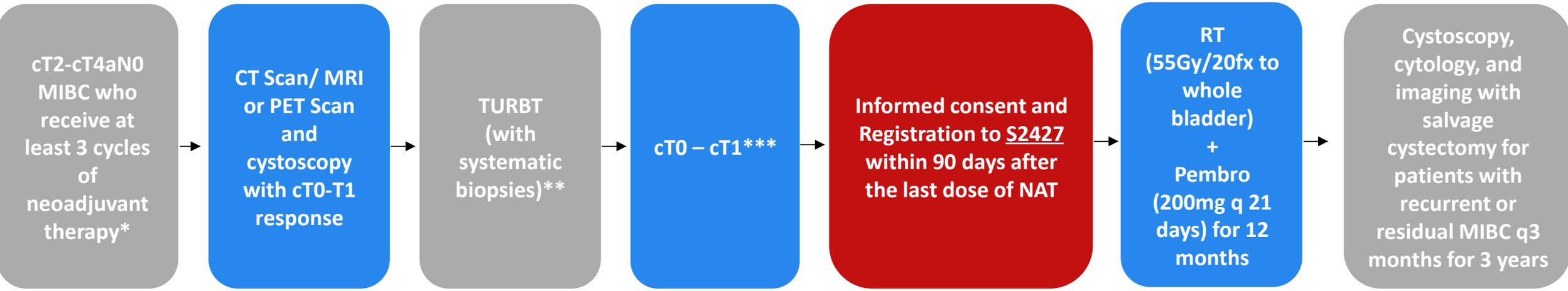


Endpoints:

Primary: clinical complete response rate

Secondary: Safety / RFS / MFS / OS.

S2427: Combining Immunotherapy and Radiation Therapy to Help Patients Avoid Bladder Removal After Treatment Shrinks Muscle Invasive Bladder Cancer (BRIGHT)



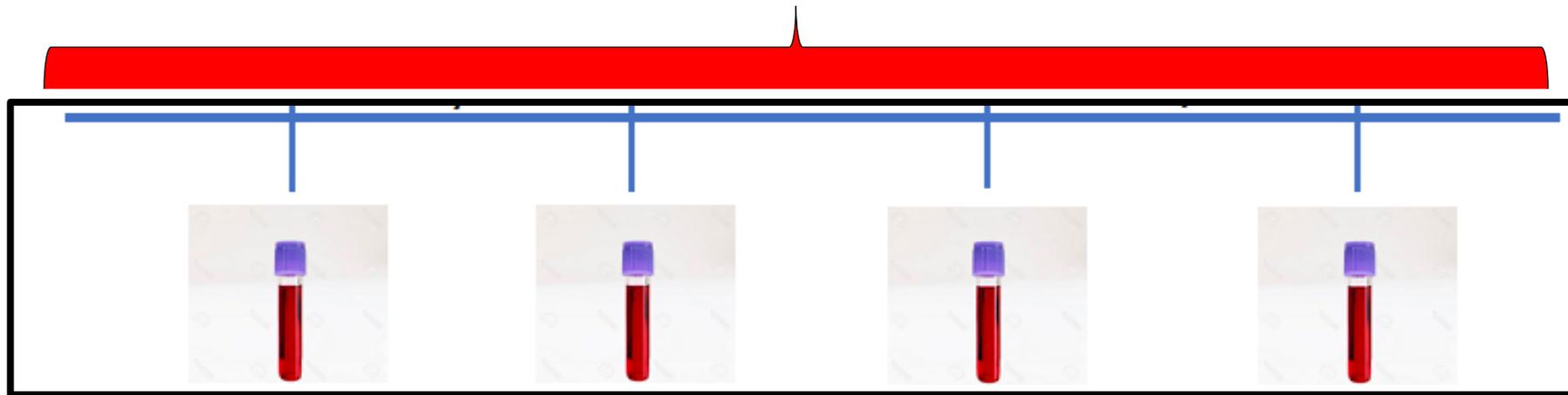
* Patients who receive NAC as the NAT must have at least 3 cycles of cis-based regimen
** Patients found to have >T1 disease on TURBT will proceed to SOC cystectomy
*** Diffuse CIS patients will be excluded (>3 cm area of contiguous CIS or >3 separate locations of CIS on TURBT (dome/posterior/left/right/trigone))

ORACLE: Observation of Residual Cancer with Liquid Biopsy for Evaluation

Guardant Health Reveal ctDNA Assay for 11 cancer types, including bladder cancer and upper tract urothelial carcinoma

- Blood collection at SOC time points

Standard Surveillance imaging



Primary Endpoint: Distant RFS

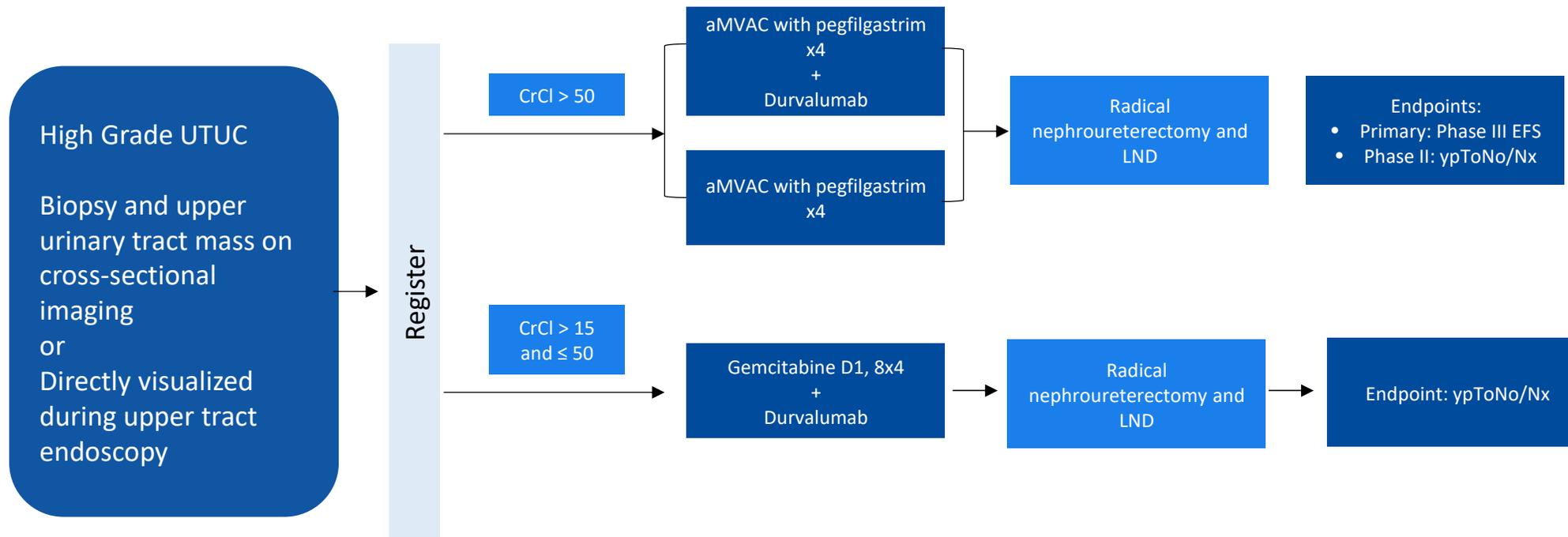
Secondary Outcomes: Sensitivity, positive predictive value, lead time

Case presentation

A 71-year-old man presents with hematuria and is found to have a **mass in the right renal pelvis**. Ureteroscopy and biopsy confirm **high-grade urothelial carcinoma** with features consistent with **T2 disease**. Staging demonstrates no evidence of metastatic disease. He has no history of muscle-invasive bladder cancer.

- High-grade upper tract urothelial carcinoma, treatment naïve

EA8192 Phase II/III– Cisplatin eligible / Phase II single-arm – Cisplatin ineligible



Cisplatin Eligible Arm						
Total N	Accrual (mos)	Additional Follow-up (mos)	Events at full information	HR	One-sided type I error	Power
220	44	40	171	0.67	0.05	84%
Phase II portion - Target pCR rate 28% vs. null 14%						

PRIMARY: Pathological outcomes (pT0N0/Nx)

KEY SECONDARY: OS, EFS, DFS, Safety/tolerability

EXPLORATORY: QOL/Health status utility, Safety, PK, Immunogenicity (anti-drug antibodies), relationship between biomarkers in blood and tumor tissue and efficacy, safety, PK, or other biomarker endpoints.

EA8192 Phase II/III– Cisplatin eligible / Phase II single-arm – Cisplatin ineligible

INCLUSION CRITERIA:

1. High Grade UTUC
 1. Biopsy
 2. Cytology/imaging
 3. Visualized mass and cytology/Histologically confirmed metastatic clear cell

2. Creatinine clearance ≥ 30 ml/min

•(LVEF) $\geq 50\%$

•No metastasis (LN) < 1 cm

•No neuropathy $>$ grade 2

EXCLUSION CRITERIA:

1. No metastases
2. No secondary cancers
3. No concomitant bladder cancer
4. No history of recent MIBC status post chemo/cystectomy

Advanced/Metastatic Disease

Case presentation

A 69-year-old man presents with metastatic urothelial carcinoma of the bladder. Next-generation sequencing of tumor tissue reveals **HER2 expression and an *FGFR3* alteration**, prompting consideration of biomarker-driven systemic therapy and clinical trial options.

- Metastatic bladder cancer, HER2+ and *FGFR3* alteration present

REJOICE-PanTumor01: A Phase 2, Multicenter, Open-Label, Pan-Tumor Trial to Evaluate Efficacy and Safety of Raludotatug Deruxtecan (R-DXd) in Participants with Advanced/Metastatic Solid Tumors



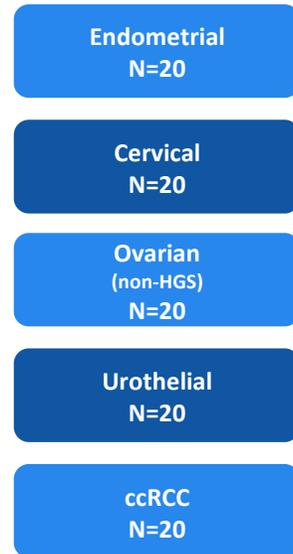
Screening (≤28D)

Target population

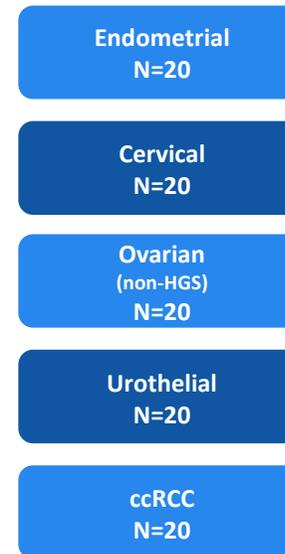
- Recurrent/metastatic solid tumors
- ECOG PS 0-1
- Measurable disease
- No selection based on target expression

Treatment*

Stage 1 (R-DXd 5.6 mg/kg Q3W)



Stage 2



IA**

C1, C2, C3, C4...

EOT

Follow up

- Safety (FU 40D)
- LTSFU (Q90D)

Primary Endpoints

- ORR (by investigator assessment per RECIST 1.1 except ccRCC cohort)
- DCR (by investigator assessment per RECIST 1.1 ccRCC cohort only)
- Safety and tolerability

Secondary Endpoints

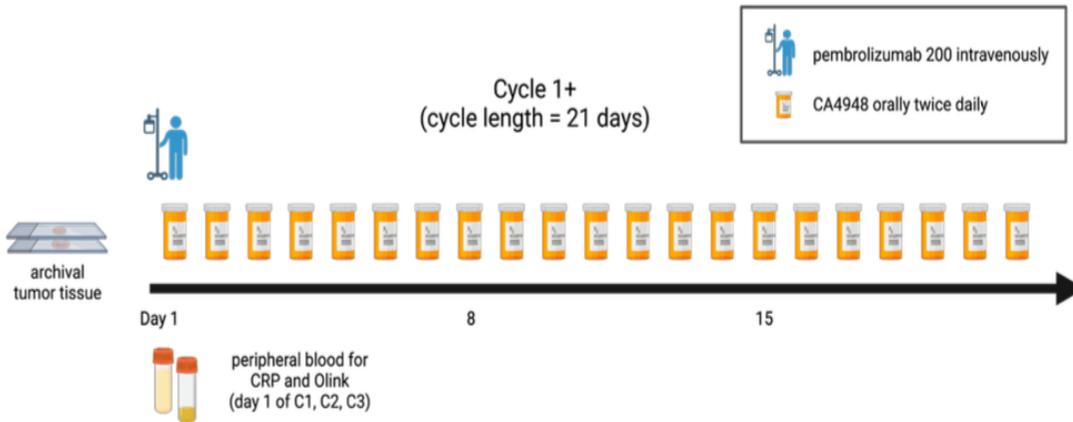
- ORR (ccRCC cohort only), DCR (except ccRCC cohort), PFS, DoR, and TTR (by investigator assessment per RECIST 1.1)
- PK, ADA

Phase 1 Trial of CA-4948 in Combination with Pembrolizumab to Overcome Resistance to PD-1/PD-L1 Blockade in Metastatic Urothelial Cancer



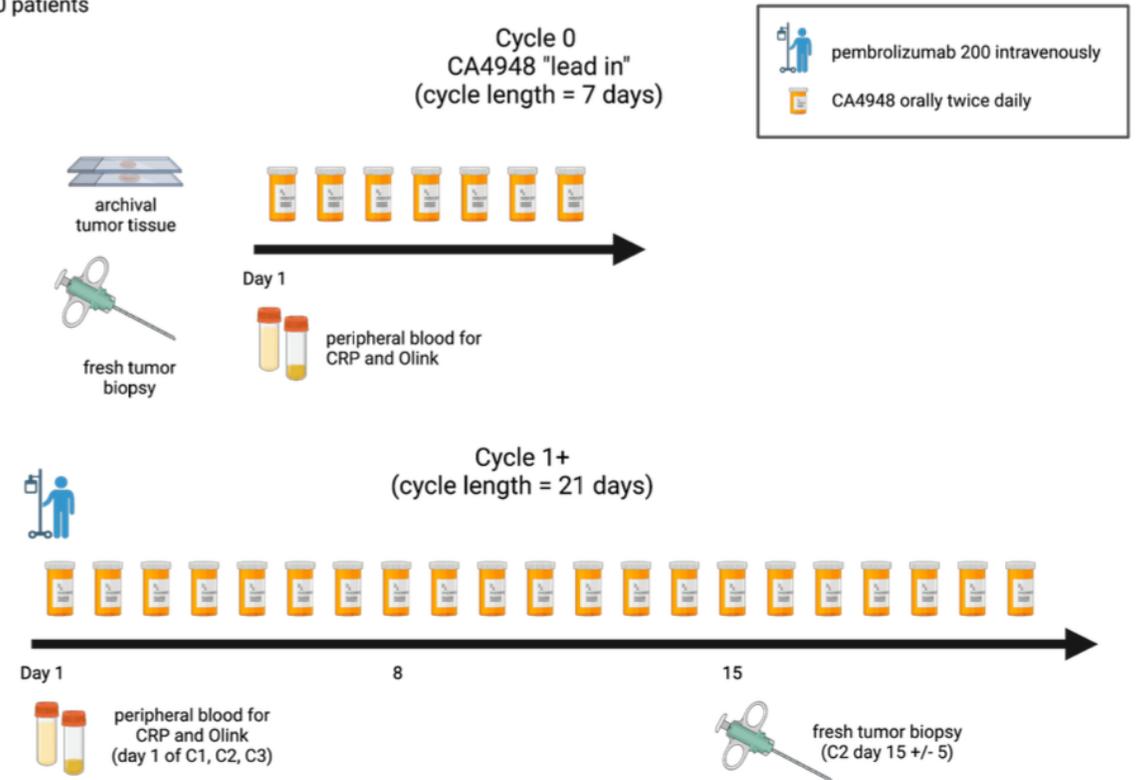
Dose Escalation

N ~ 15 patients

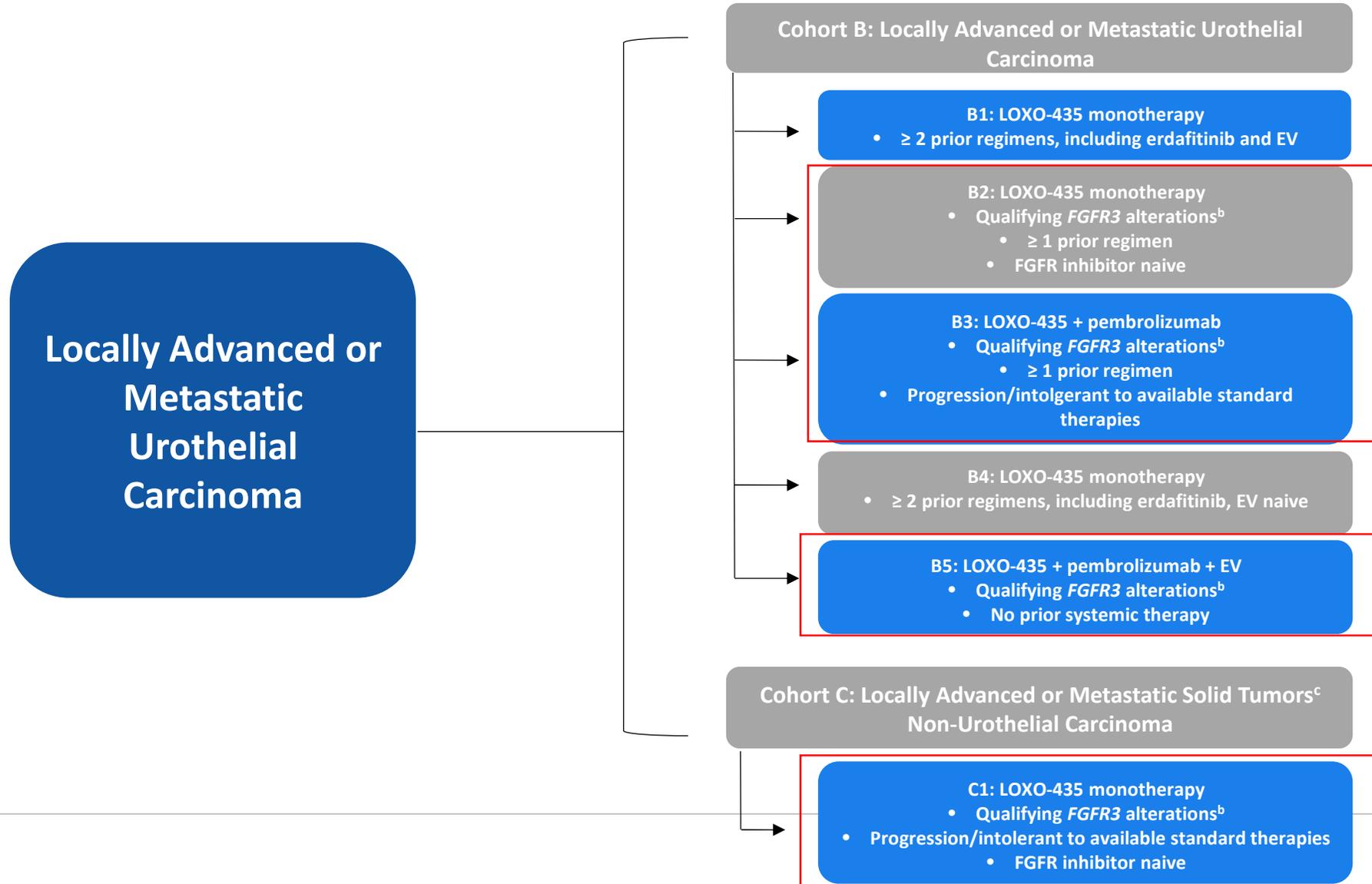


Dose Expansion

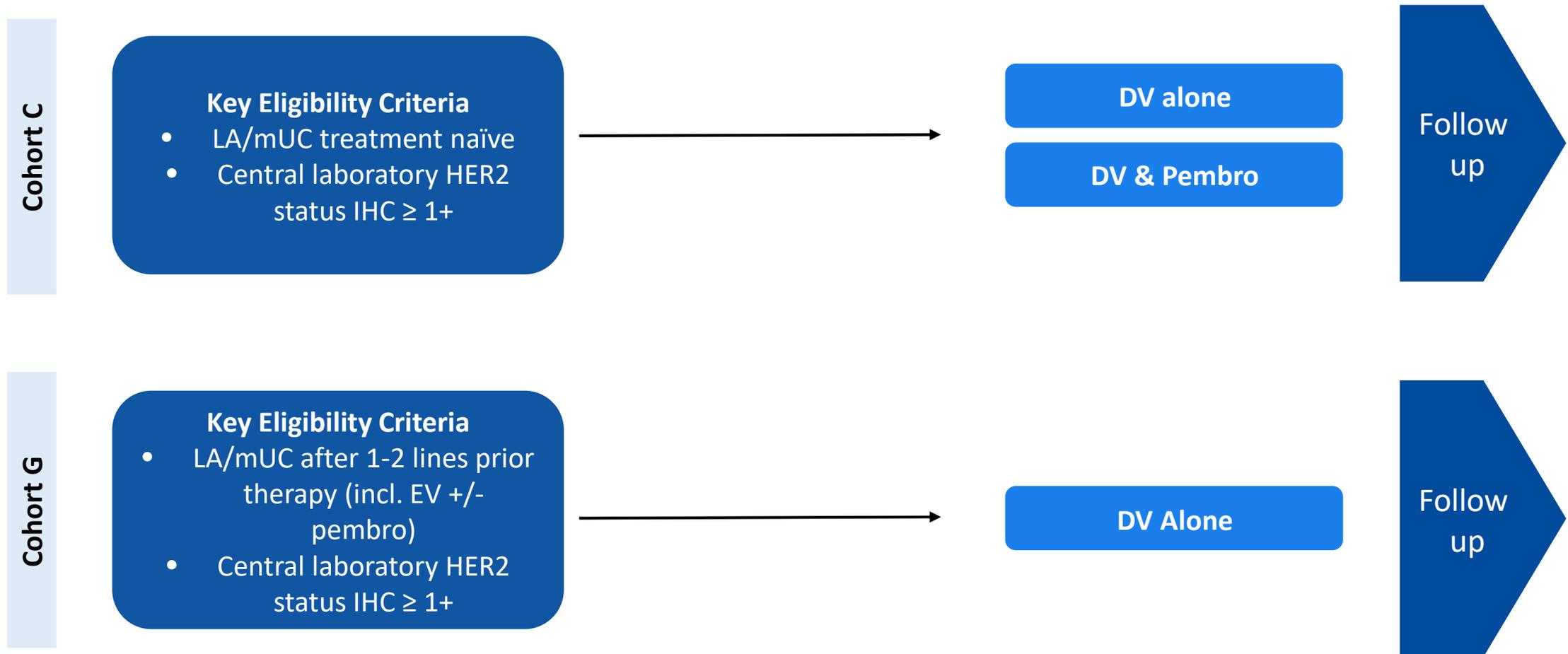
N = 10 patients



FORAGER-1: A Phase I, Open-Label, Multicenter Study of LOXO-435 in Locally Advanced or Metastatic Solid Tumors Including Urothelial Cancer with FGFR3 Alterations



Phase 2 study of disitamab vedotin (RC48 ADC) with pembrolizumab vs chemotherapy in patients with locally advanced or metastatic urothelial carcinoma that expresses HER2



BL-M07D1 in Subjects with HER2 Expressing Advanced Malignant Solid Tumors

