ADVANCED-1 P

Phase 1a/b Safety Study of Intravesical Instillation of TARA-002 in Adults with High-grade Non-muscle Invasive Bladder Cancer

Jathin Bandari,¹ Jacqueline Zummo,¹ Khushboo Belani,¹ Eppie Brown,¹ McKenna Metcalf,¹ Wei Sun,¹ Nuwan Nanayakkara²

¹Protara Therapeutics, Inc., New York, NY, United States; ²Pharmapace Inc., San Diego, CA, United States.

INTRODUCTION

- Bladder cancer is the most common malignancy involving the urinary system, resulting in approximately 18,000 deaths each year in the United States (US)¹
- Approximately 70% of new urothelial bladder cancer cases are classified as non-muscle invasive bladder cancer (NMIBC)^{2,3}
- With the current Bacillus Calmette-Guérin (BCG) shortage and limited effective alternative therapies, there continues to be a significant unmet need for treatment options for patients with NMIBC
- TARA-002 is being developed for the treatment of high-grade (HG) NMIBC
- TARA-002 is a lyophilized biological preparation for instillation containing cells of *Streptococcus pyogenes* (Group A, type 3) Su strain treated with benzylpenicillin
- TARA-002 is manufactured using the same master cell bank as OK-432 (Picibanil[®])
- OK-432 is approved in Japan and Taiwan for the treatment of several oncology indications
- Nonclinical toxicology studies with TARA-002 support the starting dose for the planned Phase 1a/b study

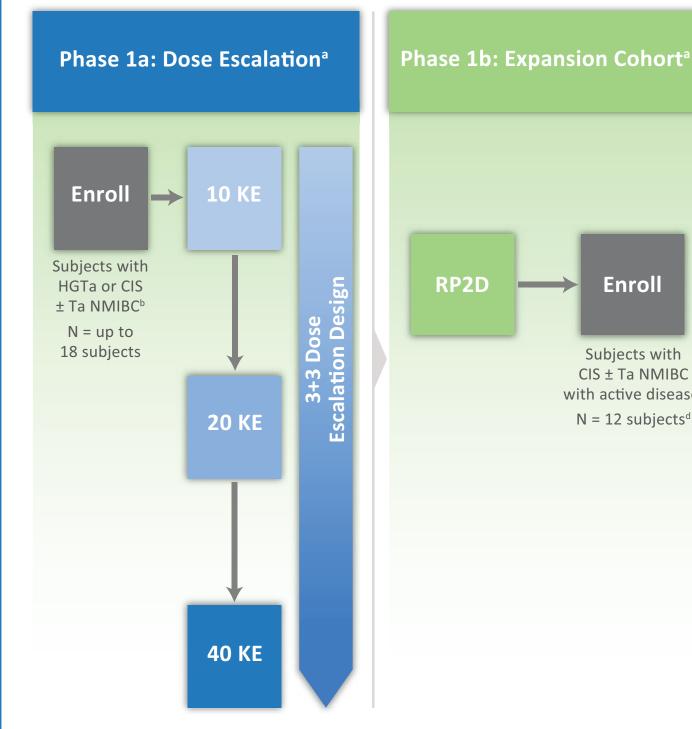
CURRENT ENROLLMENT STATUS

- Study started in March 2022
- Phase 1a is currently open for enrollment
- ClinicalTrials.gov Identifier: NCT05085977, NCT05085990





FIGURE 1. PHASE 1 DOSE FINDING, OPEN-LABEL STUDY WITH EXPANSIO EVALUATING INTRAVESICAL TARA-002 IN ADULTS WITH HIGH-GRADE NM



Abbreviations: BCG, Bacillus Calmette-Guérin; CIS, carcinoma in situ; HGTa, high-grade Ta; ICF, Informed Cor Form; KE, Klinische Einheit; MTD, maximum tolerated dose; NMIBC, non-muscle invasive bladder cancer; RF recommended Phase 2 dose.

^aSubjects will receive weekly intravesical doses of TARA-002 instillation for 6 weeks.

^bSubjects with HGTa or CIS \pm Ta NMIBC who are unable to obtain intravesical BCG, received \geq 1 dose of intra BCG, or received \geq 1 dose of intravesical chemotherapy.

^cDefined as disease present at last cystoscopic evaluation prior to signing ICF during the dose expansion pha ^dSubjects enrolled in the dose expansion phase will not include subjects previously enrolled and treated in t escalation phase.



MET	HODS	ELIGIBILITY
J	 ADVANCED-1 is a Phase 1a/b, dose finding, open-label study of intravesical instillation of TARA-002 in adults with HG NMIBC (Figure 1) 	Key Inclusion Crite
BC	 During the study, eligible subjects will receive weekly intravesical doses of TARA-002 instillation for 6 weeks 	Male or female subjects of age or older at the tim signing the informed cor
ġ¢	 The overall study duration for each subject includes 28 days of screening period, 6-week treatment period, and 6-week follow-up period The study includes a dose escalation phase (Phase 1a) and a dose expansion phase (Phase 1b; Figure 1) During the dose escalation phase (1a), up to 18 subjects with HGTa or CIS (± Ta) NMIBC with active disease are enrolled Up to 3 dose levels are tested sequentially with 6 weekly intravesical doses, starting with the lowest dose using a 3+3 design in a dose escalation manner (Figure 1) The dose escalation phase (1a) will conclude once the maximum tolerated dose (MTD) has been established or if the maximum feasible dose is reached without any safety concerns At the established recommended Phase 2 dose (RP2D), the dose expansion phase (1b) will enroll approximately 12 new subjects with CIS (± Ta) NMIBC with active disease 	 Subjects who have volum given written informed of after the nature of the sten has been explained accordinate applicable requirements study entry Subjects with a histologic confirmed, HGTa or CIS to cell carcinoma of the blate. Subjects who are treatment of have received at least or intravesical BCG, or at lead oose of intravesical chemical chemical chemical chemical study entravesical chemical chemical chemical study entravesical chemical chemical chemical study entravesical chemical chemical study entravesical chemical chemical study entravesical chemical chemical study entry
	STUDY OBJECTIVES/ENDPOINTS	 Penicillin allergy (subject questionable history of a penicillin or no history of
	 The purpose of this study is to evaluate the safety and toxicity of TARA-002, to establish the MTD and RP2D in the treatment of subjects with HGTa or CIS NMIBC during the dose escalation phase (1a), and to further assess the safety and preliminary efficacy of TARA-002 in the treatment of subjects with CIS NMIBC with active disease during the dose expansion phase (1b) 	 use will undergo sensitive prior to inclusion in the sensitive of the sensitive prior to inclusion in the sensitive of the sensit
	 Primary Objective: To evaluate the safety and tolerability of TARA-002 Dose Escalation Phase (1a) Primary Endpoints: 	time
nsent P2D,	 Dose Escalation Phase (1a) Primary Endpoints. Incidence of dose limiting toxicity (DLT) adverse events (AEs) in subjects with HGTa or CIS NMIBC 	 Bladder cancer stage ≥ T Bladder cancer stage CIS concomitant T1
ivesical	MTD and RP2D of TARA-002 in subjects with HGTa or CIS NMIBC	
	– Dose Expansion Phase (1b) 1b Primary Endpoint:	REFERENCES
ase. the dose	Incidence of AEs in subjects with CIS NMIBC with active disease	 Siegel RL, et al. CA Cancer J Clin. 2020 Lamm D, et al. Urol Oncol. 1998;4(4-5) Babjuk M, et al. Eur Urol. 2019;76(5):

