MoonRISe-1: Phase 3 Study of TAR-210, an Erdafitinib Intravesical Releasing System, **Versus Intravesical Chemotherapy** in Patients With FGFR-Altered Intermediate-Risk Non-Muscle-**Invasive Bladder Cancer**

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Current Status



The phase 3 MoonRISe-1 study opened for enrollment in April 2024. As of November 6, 2024, 82 patients have been randomized, and recruitment is ongoing at 163 sites

Registration and Contact Information



MoonRISe-1 is registered on ClinicalTrials.gov as NCT06319820



For questions or information about enrollment, please contact Angela Girvin, MD, the Study Responsible Physician, at RA-MoonRISe1Clinical@its.jnj.com



https://www.congresshub.com/Oncology/SUO2024/ErdaRIS/Li

The QR code is intended to provide scientific information for individual reference

Introduction

- Despite available treatment options for patients with intermediate risk (IR) non-muscle-invasive bladder cancer (NMIBC), recurrence rates remain high, underscoring the need for effective therapies1
- Fibroblast growth factor receptor (FGFR) alterations are prevalent in ~50% to 80% of low-grade NMIBC and may function as oncogenic drivers2-4
- Erdafitinib is a selective pan-FGFR tyrosine kinase inhibitor⁵
- Oral erdafitinib (Balversa®) is approved in the United States to treat adults with locally advanced or metastatic urothelial carcinoma with susceptible FGFR3 alterations following progression on or after at least 1 prior systemic treatment, with additional approvals across geographies 6-9

- Oral erdafitinib demonstrated clinical efficacy in high-risk (HR) and IR NMIBC populations, but was limited by challenging systemic toxicities¹⁰⁻¹²
- In an interim analysis of THOR-2 Cohort 3, 15/18 patients with FGFR-altered IR NMIBC had complete response (CR; 83%), with a median duration of response (DOR) of 12.8 months¹³
- TAR-210 is a novel erdafitinib intravesical releasing system. designed for sustained local delivery of erdafitinib over 3 months in the bladder (Figure 1)14
- MoonRISe-1 (NCT06319820) is an open-label, multicenter, randomized phase 3 study to evaluate the efficacy and safety of TAR-210 versus intravesical chemotherapy in patients with FGFR-altered, low-grade IR NMIBC

Figure 1: TAR-210 is a novel erdafitinib intravesical releasing system designed for sustained local delivery of therapy over 3 months in



In a first-in-human study. TAR-210 was well tolerated. with promising clinical activity in FGFR-altered HR NMIBC (recurrence-free survival rate: 82%) and IR NMIBC (CR rate: 87%)14

TAR-210 is placed using a urinary placement catheter in a brief in-office procedure

Methods

Figure 2: MoonRISe-1 study design

- Adults (aged ≥18 years)
- Histologically confirmed IR NMIBC - Ta low-grade/grade 1
- Recurrent or
- Primary: multifocal, or ≥3 cm

- Susceptible FGFR2/3 alterations by central or local tissue or urine testing

- · Anticipated choice of intravesical chemotherapy
- · Newly diagnosed versus recurrent disease
- Cystoscopic assessment method (white light vs photodynamic diagnostics)

QW, every week; Q12W, every 12 weeks; R, randomized.

*Risk factors include multiple Ta low-grade tumors, tumors >3 cm, early (≤1 year) recurrence, frequent (>1 per year) recurrences, or recurrence after intravesical chemotherapy received >6 months prior

Study Design of MoonRISe-1

Eligible patients with histologically confirmed IR NMIBC (N≈540) with susceptible FGFR2/3 alterations will be randomized 1:1 to receive TAR-210 or investigator's choice of intravesical chemotherapy, mitomycin C, or gemcitabine (Figure 2)

Disease-free survival defined as time from randomization to first documented recurrence of any-grade NMIBC, disease progression, or death from any cause, whichever occurs first

- All visible papillary disease must be fully resected prior to randomization
- The primary end point is disease-free survival
- Assessments of recurrence or progression include urine cytology, cystoscopy, for-cause transurethral resection of bladder tumor (TURBT) or biopsy of bladder lesions, ultrasound, and urography
- The follow-up phase for patients meeting the primary end point is up to ≈5 years

Global Enrollment for MoonRISe-1

- The MoonRISe-1 study opened for enrollment on April 10, 2024
- Recruitment is planned at 200 sites (Figure 3)
- As of November 6, 2024, 82 patients have been randomized, and recruitment is ongoing at 163 sites

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(n≈270)

mitomycin C or gemcitabine

Investigator's choice of intravesical chemotherapy

TAR-210

(n≈270)

Q12W for 1 year

QW for 4 to 6 doses (induction) and maintenance for 6 months to 1 year

Primary end point

· Disease-free survival

Key secondary end point

- · Time to next treatment
- · High-grade recurrence-free survival
- · Rate of diagnostic and therapeutic urological interventions
- Safety and tolerability

NCT06319820

Figure 3: Enrollment is ongoing at 163 sites in 19 countries across 4 continents



