# Nurse and Advanced Practice Provider Perspectives on Gemcitabine Intravesical System Treatment of High-Risk Non-Muscle-Invasive Bladder Cancer in the Urology Clinic

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# Key Takeaway



Nurses and APPs play a critical role in coordination of care, patient education, and AE management during gemcitabine intravesical system therapy

## Conclusions



The recent approval of gemcitabine intravesical system for the treatment of patients with BCGunresponsive NMIBC with CIS, with or without papillary tumors, is supported by efficacy and safety data from the SunRISe-1 clinical trial



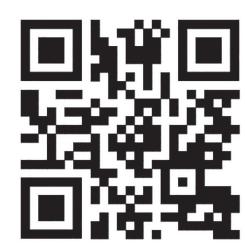
Cohort 2 (CIS ± papillary disease) had a high complete response rate of 82.4% and 52.9% of patients responded to treatment for at least 1 year. In Cohort 4 (papillary disease only) 85.3% and 70.2% of patients remained disease-free after 6 and 12 months, respectively



Gemcitabine intravesical system therapy was well tolerated in SunRISe-1, with most side effects being mild to moderate symptoms of the lower urinary tract that were managed symptomatically



Recommendations for management of AEs includes lower urinary tract symptom treatments, antibiotics, and adequate hydration



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Poster

https://www.jnjmedicalconnect.com/media/attestation/congresses/oncology/2025/ western-section-aua/nurse-and-advanced-practice-provider-perspectives-ongemcitabine-intravesical-system-treatment-of-hi.pdf

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### **Disclosures**

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# Introduction

- Non-muscle-invasive bladder cancer (NMIBC) accounts for ~70% of all bladder cancer cases and ~50% of patients with high-risk (HR) NMIBC experience disease recurrence or progression on Bacillus Calmette-Guérin (BCG)<sup>1,2</sup>
- The standard of care for these patients is radical cystectomy (RC), a life-altering surgery with a high degree of morbidity and significant impacts on quality of life<sup>3,4</sup>
- Current treatment options for BCG-unresponsive HR NMIBC carcinoma in situ (CIS) have limited complete response rates and response durability<sup>5-7</sup>
- For patients with BCG-unresponsive HR NMIBC with only papillary disease, there are no approved treatments Gemcitabine intravesical system
- Gemcitabine intravesical system was recently approved by the FDA for BCG-unresponsive NMIBC with CIS ± papillary disease<sup>8-10</sup>
- A first-in-class intravesical drug-releasing system designed to provide sustained delivery of gemcitabine in the bladder
- Inserted during brief in-office procedure, without need for general anesthesia, by any trained healthcare professional using co-packaged urinary catheter and stylet
- Delivers 225 mg gemcitabine directly into the bladder over a 3-week indwelling period
- Inserted once every 3 weeks for up to 6 months (8 doses), followed by once every 12 weeks for up to 18 months (6 doses); removed after each 3-week indwelling period
- Patients can return home immediately after the procedure and there is no need to hold bladder after insertion
- Nurses and advanced practice providers (APPs) play a crucial role in supporting patients receiving gemcitabine intravesical system treatment and managing adverse events (AEs)

# Methods

- SunRISe-1 (NCT04640623) is a Phase 2b study assessing gemcitabine intravesical system in patients with BCG-unresponsive HR NMIBC, ineligible for/refused RC (Figure 1)9
- Here we report:
- Data in patients with CIS ± papillary disease (Cohort 2) and patients with papillary-only disease (Cohort 4)
- Insights gathered from nurses and APPs with experience using gemcitabine intravesical system in the urology clinic during the SunRISe-1 trial

#### Figure 1: SunRISe-1 study schema\*

#### Population:

- Aged ≥18 years
- HR NMIBC CIS (± papillary disease) Persistent or recurrent
- disease within 12 months of completion of BCG
- Unresponsive to BCG<sup>11,12</sup> and not receiving RC

### Population:

- Papillary-only HR NMIBC (no CIS)†
- **Cohort 2 (N=85)** Gemcitabine intravesical

system monotherapy

CG, Bacillus Calmette-Guérin; CIS, carcinoma in situ; CR, complete response; HR, high-risk; NMIBC, non-muscle-invasive bladder cancer; Q3W, every 3 weeks; Q12W, every 12 weeks; RC, radical cystectomy

**Cohort 4** (N=52) Gemcitabine intravesical

mab [N=53]) and Cohort 3 (Cetrelimab monotherapy [N=28]) not presented here. †Patients with BCG-unresponsive papillary-only HR NMIBC (high-grade Ta, any T1) per protocol amendment.

Gemcitabine intravesical system dosing:

Q3W (indwelling) for the first 24 weeks;

then Q12W through Week 96

**Key secondary end points** Duration of response

**Primary end point** 

Overall CR rate

Cohorts 2:

Overall survival

Safety

Cohort 4: **Primary end point** 

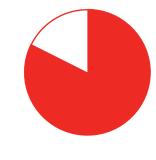
 Disease-free survival system monotherapy

# Results

#### Figure 2: SunRISe-1 Cohort 2 and 4 key efficacy results<sup>9</sup>

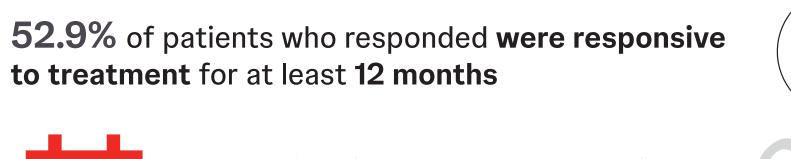
#### Cohort 2

(Gemcitabine intravesical system monotherapy in patients with CIS *± papillary disease*)



82.4% of patients achieved a complete response (i.e., cancer was not detectable) following treatment

to treatment for at least 12 months



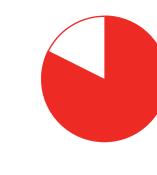


The median time that cancer remained undetectable was 25.8 months

# **Cohort 4**

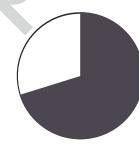
(Gemcitabine intravesical system monotherapy in patients with papillary disease only)

## More than half of the participants did not have the cancer return



References

85.3% of patients were disease-free after

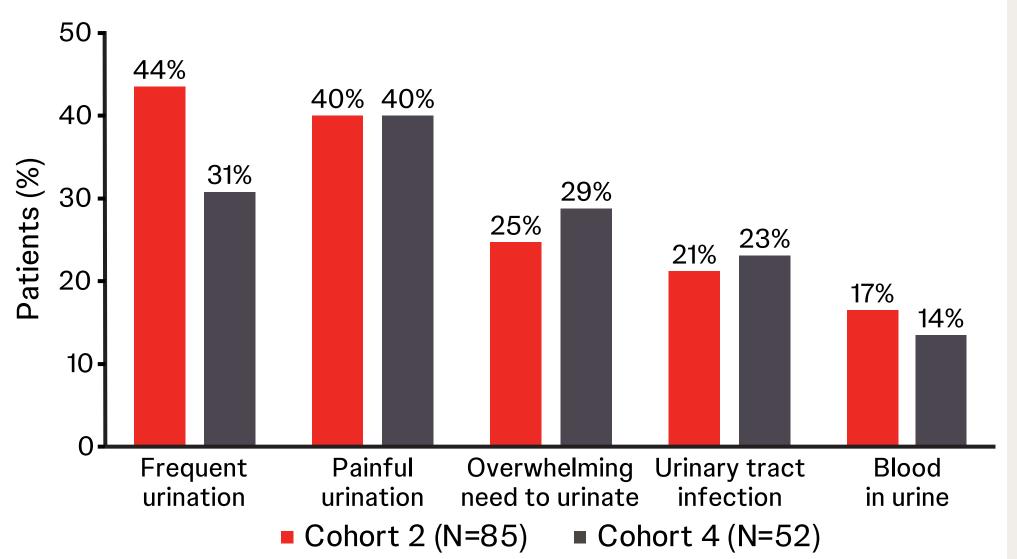


70.2% of patients were disease-free after 12 months

Proportions of patients who were disease-free after 12 months were similar for those with bladder cancer growing on the surface of the bladder lining (Stage Ta) and those with bladder cancer that has started to grow beneath the bladder lining and into the connective tissue (Stage T1)

- In SunRISe-1 Cohort 2 and 4, most side effects were mild to moderate symptoms of the lower urinary tract (Grade 1 or 2) that were managed symptomatically and of short duration (~3 weeks) (Figure 3)9
- There were no deaths that resulted from treatment in either cohort9

### Figure 3: SunRISe-1 Cohort 2 and 4 common side effects (≥15%)9



https://professionals.wrha.mb.ca/old/professionals/files/PDTip\_AnalgesicLadder.pdf.

## Figure 4: Nurses and APPs facilitate the patient experience through patient education, coordination of care and AE management

#### Coordination of care

- Schedule appointments for the first 3 doses (both insertion and removal) when the patient is identified
- Ensure the patient and/or caregiver can attend all appointments

AE, adverse event; APP, advanced practice provider; EMR, electronic medical record; FAQs, frequently asked questions; HCP, healthcare professional.

#### **Patient education**

- Explain insertion/removal process and appointment duration
- Share educational materials (pamphlets, FAQs)
- Explain how a patient should contact their HCP if they experience an AE

#### **AE** management

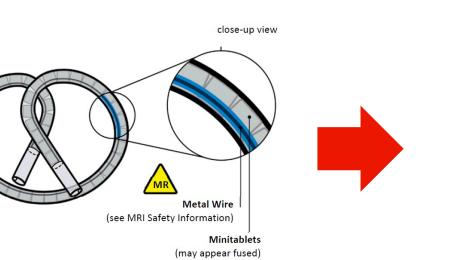
- Early detection of AEs helps prevent complications
- Assign an oncology navigator reachable via phone, email, or EMR for timely support
- Check in during the first treatment week

Schedule the next appointment prior to patient leaving office

Contact patients that have missed or rescheduled appointments

Provide guidance/interventions at first sign of symptoms

### Figure 5: Roles and clinical practice experiences of nurses and APPs in the gemcitabine intravesical system patient journey



# **Pre-procedure preparation**

- Educate and prepare patients on what to expect, alleviate concerns on infection, impact on QoL
- Provide guidance on self-care Share educational materials (pamphlets, FAQs)
- Consultation with nurses and if required APPs and/or urologists

AE, adverse event; APP, advanced practice provider; FAQs, frequently asked questions; QoL, quality of life.

## **Gemcitabine intravesical** system insertion

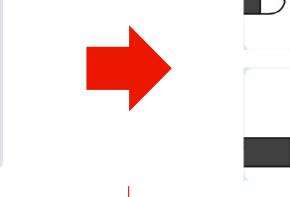
- Via a urinary catheter in a brief in-office procedure Can be performed by an APP
- after minimal training) or urologist Nurses help prepare patients, and address any questions

# Follow-up

- Continue patient education, arrange follow-ups, and
- manage AEs Nurses report AEs, schedule appointments, consult with the

patients and wider-care team

 APPs involved in AE management Urologist available for consultation if required



#### **Gemcitabine intravesical** system removal

- Via cystoscope and grasping forceps
- Can be performed by an APP
- after minimal training) or urologist Nurses help prepare patients, and address any questions

## Figure 6: Gemcitabine intravesical system clinical management recommendations<sup>13</sup>



## General

- Counsel on potential on lower urinary tract symptoms
- Screen for pre-existing lower
- urinary tract symptoms • Consume ≥1500 mL of nonalcoholic, non-caffeinated liquid each day during treatment
- Use a heat pack to alleviate mild pain Advise on which over-the-counter pain medications patients can take

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#### Lower urinary tract symptoms dysuria/pain, overreactive bladder

- Avoid irritants such as spicy food and citrus
- Consider common treatments\* for symptom management – if no clinical improvement within 72 hours consider removing gemcitabine intravesical system until resolution
- For pain, follow the WHO 3-step analgesic ladder<sup>14</sup>



**Urinary tract infections** with/without fever

- Start appropriate antibiotics based on urinalysis and urine culture results - if no improvement within 72 hours consider removing gemcitabine intravesical system until resolution
- For cases of **urosepsis** consider removing gemcitabine intravesica system **once** clinically stable and restart treatment following resolution



# **Blood in urine (hematuria)**

- **Encourage adequate hydration**
- Continue treatment for macroscopic cases but remove/ delay for complicated cases or if no improvement, until resolution
- If persistent, perform cystoscopy to evaluate tumor Consider invasive intervention
- as clinically indicated for complicated cases

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\*e.g., Alpha-blocker, antispasmodics, phenazopyridine, NSAIDS, amitriptyline. NSAID, non-steroidal anti-inflammatory drug; WHO, World Health Organization.