## EFFICACY OF BCG FOR NON-MUSCLE INVASIVE BLADDER CANCER

## Background

The complete response rate to BCG therapy in patients with high-risk non-muscle invasive bladder cancer (NMIBC) is as high as $80 \%$.

BCG is the standard for high risk NMIBC
Bladder tumor recurrences after nephroureterectomy for patients with a history of upper tract urothelial carcinoma occurs in $15 \%$ to $50 \%$ of cases. ${ }^{2}$

The genetic profile of upper tract urothelial carcinoma UTUC) differs from urothelial carcinoma arising from the bladder urothelium. ${ }^{3}$

Recent retrospective series have suggested increased rate of bladder cancer recurrence and progression for NMIBC treated with BCG in patients with a history of UTUC. 2,4

## METHODS

A single institution retrospective review of patients who underwent nephroureterectomy for upper tract urothelial carcinoma from 2009 to 2021 was performed.

Patients were included if they developed NMIBC after nephroureterectomy and subsequently received induction BCG with or without maintenance.

- A control cohort was then formed using a pre-existing database of patients with primary NMIBC treated with BCG at our institution from 2009 to 2021. Patients in the control cohort were matched $2: 1$ by stage of NMIBC.

Our primary outcome was intravesical recurrence free survival. Secondary outcomes were stage of recurrence, time to recurrence, progression to cystectomy, and progression to metastatic disease.

RESULTS


