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Is it the new gold standard to manage refractory urinary tract infections? Experience from a dedicated Complex UTI clinic

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Abstract #803



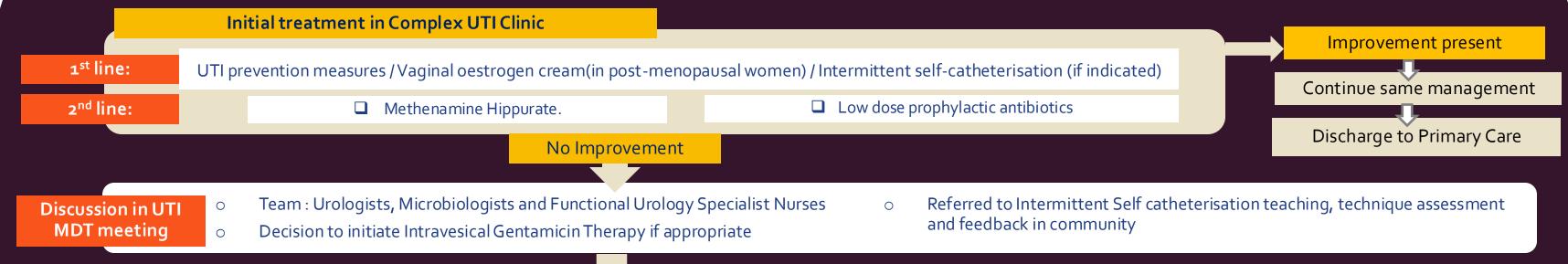
INTRODUCTION

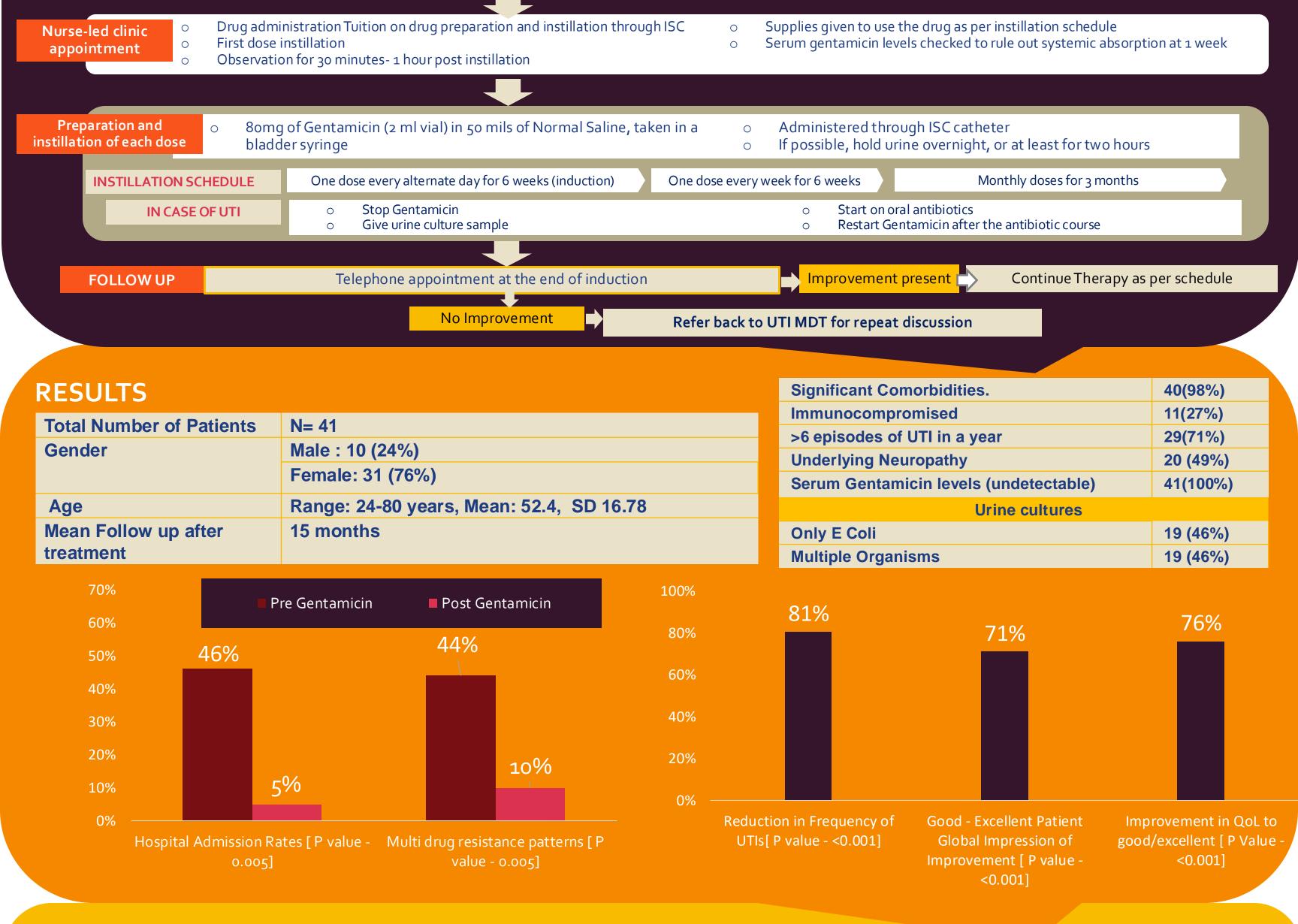
- Recurrent UTIs are challenging, and their persistence and relapse after treatment warrant a different management approach.
- Systemic antibiotics remain to be the primary treatment for UTI. However, with increasing antimicrobial resistance and growing evidence of microbiota dysbiosis with systemic therapy, there is a growing need for targeted antibiotic therapies^[1].
- Intravesical antibiotic therapy is known to provide high drug concentrations locally and minimise their systemic side effects^[2,3].
- Our aim was to assess the efficacy of intravesical Gentamicin among our patients with refractory UTIs.

MATERIAL AND METHODS

- □ In April 2021, we established a multidisciplinary complex UTI clinic in collaboration with specialist nurses and microbiologists.
- □ A prospective study was done between May 2021- May 2023 including the patients referred to our complex UTI clinic, who in view of refractory symptoms to 1st and 2nd line treatments, subsequently received Intravesical Gentamicin.
- These patients were discussed at our UTI MDT meeting. If initiation of intravesical Gentamicin is considered, the patients received the therapy through a locally devised Nurse-led protocol and Response was assessed at follow up clinic appointments.

LOCALLY DEVISED PROTOCOL USED FOR INTRAVESICAL GENTAMICIN INSTILLATION





LESSONS FROM OUR EXPERIENCE

- Intravesical Gentamicin therapy has shown to reduce the frequency and severity of recurrent UTIs. \checkmark
- It is safe (undetectable Gentamicin levels in 100% patients) and has shown promising benefit for difficult-to-treat UTI as a tertiary treatment \checkmark option
- It has shown to improve antibiotic sensitivity pattern providing better long term antibiotic options \checkmark
- It also helps in reducing the risks of urosepsis and hospital admissions due to multi-drug resistant bacteria. \checkmark
- MDT approach (involving the microbiologists) adds a different perspective and dimension to management. Hence, it is advisable to take \checkmark the decision to administer intravesical gentamicin therapy in a multidisciplinary setting with a microbiologist present
- Setting expectations: Managing the UTI and improving QoL over treating the UTI (Especially in patients with irreversible risk factors like \checkmark neuropathy)

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