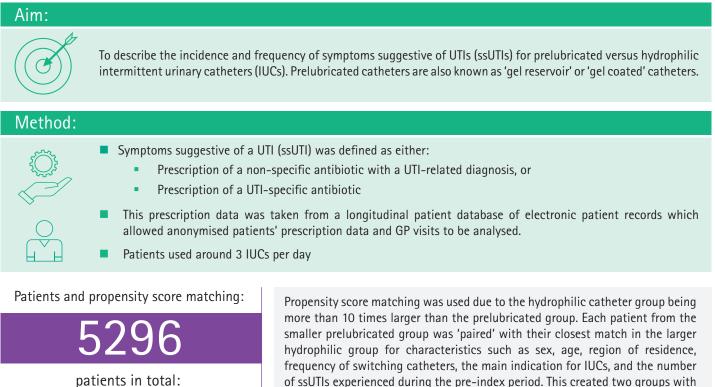
A real world data analysis of intermittent catheterisation



E. Chartier-Kastler, C. Chapple, B. Schurch, and M. Saad. European Association of Urology 2022

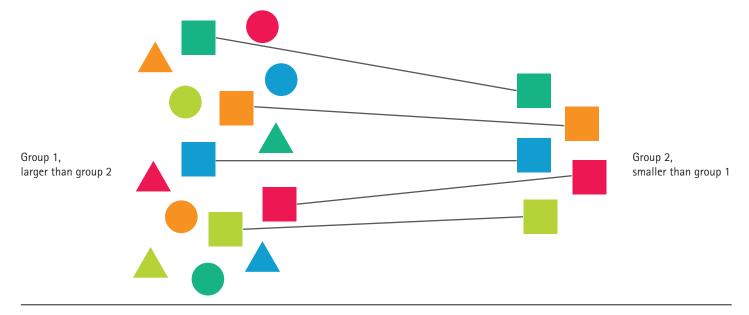
A real-world data analysis of intermittent catheterisation, showing the impact of prelubricated versus hydrophilic catheter use on the occurrence of symptoms suggestive of urinary tract infections.



458 prelubricated and 4838 hydrophilic

of ssUTIs experienced during the pre-index period. This created two groups with almost identical characteristics at baseline.

The diagram below illustrates propensity score matching. Individual from Group 2 matched with the individual from Group 1 with the most similar characteristics at baseline. Non-matched individuals are excluded from analysis.



Key results:

Among patients who used the same type of catheter ('continuous use'):

- The proportion of patients experiencing ssUTIs was significantly lower in the prelubricated group (44.6% for prelubricated vs. 55.0% for hydrophillic; p=0.015)
- A 20.9% difference in ssUTI rates between the two groups for continuous use, in favour of prelubricated catheters

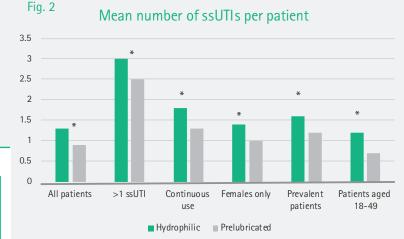
* indicates a statistically significant result at the p<0.05 level

Fig. 1 Proportion of patients experiencing ssUTIs

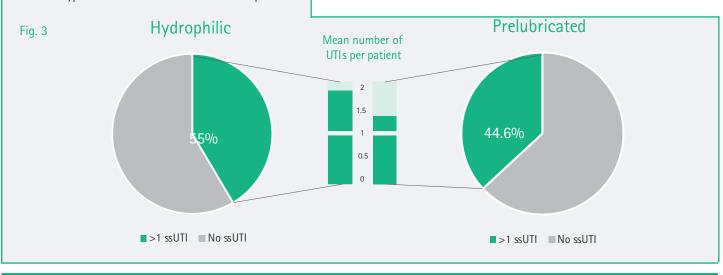
Hydrophilic Prelubricated

- The mean number of ssUTIs was significantly lower in the prelubricated group across
 - patients as a whole
 - patients who had at least one ssUTI
 - females
 - prevalent patients⁺
 - those aged 18-49

* prevalent patients = patients who already had ssUTIs at the start of the study



The number of ssUTIs per patient was also significantly lower in the prelubricated group (1.3 vs. 1.8; p=0.004) for patients who used the same type of catheter for the whole index period



This study¹ highlighted the importance of the continuous use of prelubricated catheters. ^(Fig. 1)

Conclusion:

When accounting for both continuous and non-continuous use, the proportion of patients experiencing ssUTIs was similar in the hydrophilic and prelubricated groups, suggesting that there are similar levels of safety between the two types of catheter. The proportion of patients with ssUTIs was also significantly lower in the prelubricated group for patients using the same type of catheter for the whole exposure period, highlighting the importance of continuous use. Futhermore, the study's findings that prelubricated catheters were 'linked to a lower occurrence of ssUTIs when considering vulnerable patient populations (women and prevalent patients)' provides evidence of the safety of prelubricated catheters for patients at higher risk of developing UTIs.

1. Chartier-Kastler, E., Chapple, C., Schurch, B., & Saad, M. (2019). Real-world data analysis of intermittent catheterization, showing the impact of prelubricated versus hydrophilic catheter use on the occurrence of symptoms suggestive of urinary tract infections. Neurourology and Urodynamics, 38(2), 703-710. doi: 10.1002/nau.23909