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Background: In many women, urinary incontinence remains a social, hygienic and functional disability. In cases of continuous or severe urine leakage, an indwelling catheter is often the final treatment option but may be associated with recurrent urinary tract infections and discomfort.

Aims of the study: To clinically evaluate the use of a non-invasive device for urine collection in women with urinary incontinence without retention requiring either an indwelling catheter or diapers for incontinence management.

Methods: The study was performed in a nursing home setting. The device is a disposable single-use silicone cap (UriCap-F, GR Dome Medical, Israel) which covers the opening of the urethra and is stabilized by a guide. The cap is connected to a standard catheter and urine collection bag. The device was applied by nursing home staff for a period of 24 days and data was collected on efficacy, adverse events and patient satisfaction.

Results: Twenty-one patients were included in the study. Mean patient age was 80.8 years and mean body mass index was 31.8. Two patients were entirely bedridden. There were no registered episodes of urine leakage on the side of the cap. Mean number of hours of cap application per 24 hours was 10.7 (S.D. 0.6) and mean urine volume collected in bag was 509 ml (S.D. 58.2). Patient satisfaction was high overall with a Visual Analogue Scale response of 10 median (scale 0-10), range 8-10. There were no observed side effects (on skin or mucosa) and no adverse events.

Conclusions: In this study, the UriCap-F device for urine collection in women with continuous and severe urinary incontinence provides an effective and non-invasive mode of urine collection without side leakages. The product was not associated with any observed side effects or adverse reactions and patient satisfaction was high. As such the UriCap-F device may provide a valuable option in the treatment of female urinary incontinence in order to avoid an indwelling catheter or diapers.

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