

CADTH RAPID RESPONSE REPORT: SUMMARY OF ABSTRACTS

Overnight Bags for Adults with Long-Term Indwelling Urinary Catheters: Clinical Effectiveness, Cost- Effectiveness, and Guidelines

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Research Questions

1. What is the clinical effectiveness of overnight bags for adults with long-term indwelling urinary catheters?
2. What is the cost-effectiveness of overnight bags for adults with long-term indwelling urinary catheters?
3. What are the evidence-based guidelines regarding the use of overnight bags for adults with long-term indwelling urinary catheters?

Key Findings

No relevant literature was found regarding the clinical effectiveness or cost-effectiveness of overnight bags for adults with long-term indwelling urinary catheters. Additionally, no relevant guidelines were identified regarding overnight bags for adults with long-term indwelling urinary catheters.

Methods

A limited literature search was conducted by an information specialist on key resources including MEDLINE, the Cochrane Library, the University of York Centre for Reviews and Dissemination (CRD) databases, the websites of Canadian and major international health technology agencies, as well as a focused Internet search. The search strategy was comprised of both controlled vocabulary, such as the National Library of Medicine's MeSH (Medical Subject Headings), and keywords. The main search concepts were urinary bags and indwelling urinary catheters. No filters were applied to limit the retrieval by study type. Where possible, retrieval was limited to the human population. The search was also limited to English language documents published between January 1, 2009 and July 26, 2019. Internet links were provided, where available.

Selection Criteria

One reviewer screened citations and selected studies based on the inclusion criteria presented in Table 1.

Table 1: Selection Criteria

Population	Adults with long-term indwelling urinary catheters
Intervention	Overnight urinary bag (i.e., changing standard bags to overnight bags at the end of the day and back to standard bags in the morning)
Comparator	Q1-Q2: Standard urinary bag (i.e., continued use of the standard bag overnight); usual care. Q3: No comparator

Outcomes	Q1: Clinical effectiveness (e.g., safety [rates of infections, catheter complications, adverse events]) Q2: Cost-effectiveness (e.g., incremental cost per quality-adjusted life year or health benefit gained) Q3: Evidence-base guidelines and recommendations (e.g., the methods for changing to an overnight bag, techniques for the prevention of urinary tract infection)
Study Designs	Health technology assessments, systematic reviews, meta-analyses, randomized controlled trials, non-randomized studies, economic evaluations and evidence-based guidelines

Results

Rapid Response reports are organized so that the higher quality evidence is presented first. Therefore, health technology assessment reports, systematic reviews, and meta-analyses are presented first. These are followed by randomized controlled trials, non-randomized studies, economic evaluations, and evidence-based guidelines.

No relevant health technology assessments, systematic reviews, meta-analyses, randomized controlled trials, non-randomized studies, economic evaluation or evidence-based guidelines were identified regarding overnight bags for adults with long-term indwelling urinary catheters.

Additional references of potential interest are provided in the appendix.

Overall Summary of Findings

No relevant literature was found regarding the clinical effectiveness, cost-effectiveness, or use of overnight bags for adults with long-term indwelling urinary catheters and therefore no summary can be provided.

References Summarized

Health Technology Assessments

No literature identified.

Systematic Reviews and Meta-analyses

No literature identified.

Randomized Controlled Trials

No literature identified.

Non-Randomized Studies

No literature identified.

Economic Evaluations

No literature identified.

Guidelines and Recommendations

No literature identified.

Appendix — Further Information

Previous CADTH Reports

1. Frequency of long-term indwelling urinary catheter replacement: clinical effectiveness and cost-effectiveness. (*CADTH rapid response report: summary of abstracts*). Ottawa (ON): CADTH; 2019 [Project in progress]: <https://www.cadth.ca/frequency-long-term-indwelling-urinary-catheter-replacement-clinical-effectiveness-and-cost>. (Accessed 2019 Aug 8).
2. Management of patients with long-term indwelling urinary catheters: a review of guidelines. (*CADTH rapid response report: summary with critical appraisal*). Ottawa (ON): CADTH; 2019 May: <https://cadth.ca/management-patients-long-term-indwelling-urinary-catheters-review-guidelines-0>. (Accessed 2019 Aug 8).
3. Cleansing methods during the insertion and maintenance of indwelling urinary catheters: clinical effectiveness and guidelines. (*CADTH rapid response report: summary of abstracts*). Ottawa (ON): CADTH; 2017 Jun: <https://www.cadth.ca/cleansing-methods-during-insertion-and-maintenance-indwelling-urinary-catheters-clinical>. (Accessed 2019 Aug 8).

Clinical Practice Guidelines – Methodology Not Specified

4. Wound, Ostomy and Continence Nurses Society. Care and management of patients with urinary catheters: a clinical resource guide. Mt. Laurel (NJ): The Society; 2016: https://c.ymcdn.com/sites/www.wocn.org/resource/resmgr/publications/Care_&_Mgmt_Pts_w_Urinary_Ca.pdf. (Accessed 2019 Aug 8).
5. Australia and New Zealand Urological Nurses Society (ANZUNS). Catheterisation Guideline Working Party. Catheterisation clinical guidelines. Victoria (AU): ANZUNS; 2013: https://www.anzuns.org/wp-content/uploads/2015/03/ANZUNS-Guidelines_Catheterisation-Clinical-Guidelines.pdf. (Accessed 2019 Aug 8).

Review Articles

6. Bradley SM, Schweon SJ, Mody L, Mahajan D, Olmsted RN. Identifying safe practices for use of the urinary leg bag drainage system in the postacute and long-term care setting: an integrative review. *Am J Infect Control*. 2018 09;46(9):973-979. [PubMed: PM30172338](https://pubmed.ncbi.nlm.nih.gov/30172338/)
7. Simpson P. Long-term urethral catheterisation: guidelines for community nurses. *Br J Nurs*. 2017 May 11;26(9):S22-S26. [PubMed: PM28493765](https://pubmed.ncbi.nlm.nih.gov/28493765/)