
DATE: 3 March 2015

RESEARCH QUESTIONS

1. What is the comparative clinical effectiveness of single-use laser fibers versus reusable laser fibers in ureteroscopes for ureteroscopy procedures?

2. What is the comparative cost-effectiveness of single-use laser fibers versus reusable laser fibers in ureteroscopes for ureteroscopy procedures?

KEY FINDINGS

Three economic evaluations regarding the comparative cost-effectiveness of single-use laser fibers versus reusable laser fibers in ureteroscopes for ureteroscopy procedures were identified.

METHODS

A limited literature search was conducted on key resources including PubMed, The Cochrane Library (2015, Issue 2), University of York Centre for Reviews and Dissemination (CRD) databases, Canadian and major international health technology agencies, as well as a focused Internet search. 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, 2010 and February 25, 2015. 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

<table>
<thead>
<tr>
<th><strong>Population</strong></th>
<th>Patients requiring ureteroscopy procedures</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Intervention</strong></td>
<td>Single-use laser fibers in ureteroscopes</td>
</tr>
<tr>
<td><strong>Comparator</strong></td>
<td>Reusable laser fibers in ureteroscopes</td>
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<tr>
<td><strong>Outcomes</strong></td>
<td>Clinical benefits and harms</td>
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<td></td>
<td>Cost-effectiveness</td>
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<tr>
<td><strong>Study Designs</strong></td>
<td>Health technology assessment reports, systematic reviews, meta-analyses, randomized controlled trials, non-randomized studies, economic evaluations</td>
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</tbody>
</table>

### 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, and economic evaluations.

Three economic evaluations regarding the comparative cost-effectiveness of single-use laser fibers versus reusable laser fibers in ureteroscopes for ureteroscopy procedures were identified. No relevant health technology assessment reports, systematic reviews, meta-analyses randomized controlled trials, or non-randomized studies regarding the comparative clinical effectiveness of single-use laser fibers versus reusable laser fibers in ureteroscopes for ureteroscopy procedures were identified.

Additional references of potential interest are provided in the appendix.

#### 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


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APPENDIX – FURTHER INFORMATION:

Non-Randomized Studies – No Comparator


Review Articles