Kidney Transplant with a Tumorectomized Kidney: Comparative Clinical Effectiveness
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**About CADTH:** CADTH is an independent, not-for-profit organization responsible for providing Canada’s health care decision-makers with objective evidence to help make informed decisions about the optimal use of drugs, medical devices, diagnostics, and procedures in our health care system.
Research Questions
1. What is the clinical effectiveness of kidney transplantation with a tumorectomized kidney?

Key Findings
One systematic review was identified regarding the clinical effectiveness of tumorectomized kidney transplants for patients who require a kidney transplant.

Methods
A limited literature search was conducted on key resources including PubMed, The Cochrane Library, 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, 2012 and May 3, 2017. Internet links were provided, where available.

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

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<th>Table 1: Selection Criteria</th>
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<td><strong>Population</strong></td>
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<td><strong>Intervention</strong></td>
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| **Comparator**              | Ongoing dialysis  
|                            | Healthy kidney transplant |
| **Outcomes**                | Clinical effectiveness, survival, hospitalization, quality of life, cancer occurrence |
| **Study Designs**           | Health technology assessments, systematic reviews, meta-analyses, randomized controlled trials, non-randomized studies |

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 and non-randomized studies.
One systematic review was identified regarding the clinical effectiveness of tumorectomized kidney transplant for patients who require a kidney transplant. No relevant health technology assessments, meta-analyses, randomized controlled trials, or non-randomized studies were identified.

Additional references of potential interest are provided in the appendix.

**Overall Summary of Findings**

One systematic review\(^1\) was identified regarding the clinical effectiveness of tumorectomized kidney transplants for patients who require a kidney transplant. This publication reviewed the literature and identified 20 case report and case series studies describing the effectiveness of transplantation of donor kidneys after resection of small renal cancer. A total of 97 cases of tumour resection followed by transplantation were included in the review. The authors concluded that the use of tumorectomized kidney transplant is associated with a relatively low cancer recurrence rate.\(^1\)

**References Summarized**

**Health Technology Assessments**

No literature identified.

**Systematic Reviews and Meta-Analyses**


**Randomized Controlled Trials**

No literature identified.

**Non-Randomized Studies**

No literature identified.
Appendix — Further Information

Previous CADTH Reports

Systematic Reviews and Meta-Analyses

No Comparator

Non-Randomized Studies

Alternate Intervention – Tumour Resection Not Specified

No Comparator


Review Articles

