

Project Title	What are the unmet supportive care needs of people affected by kidney cancer: A rapid review
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Lead discipline (please select one)	
<input checked="" type="checkbox"/> Nursing	<input type="checkbox"/> Health Economics
<input type="checkbox"/> Allied Health	<input type="checkbox"/> Biostatistics
<input type="checkbox"/> Medicine	<input type="checkbox"/> Value-based Healthcare
<input type="checkbox"/> Pre-clinical	<input type="checkbox"/> Epidemiology

Outline of the project

The summer vacation student will work with an experienced health services clinical academic to undertake a rapid systematic review in cancer. The aim of this project is to support the student to develop their skills in evidence synthesis and experience of dissemination through publication. It is intended that this project will make a worthy contribution to the existing literature and help inform next steps for research and models of supportive care delivery.

Background

Kidney cancer is the 13th most common cancer (Chow, Dong, & Devesa, 2010), with approximately 403,262 new diagnoses kidney cancer worldwide in 2018 (Bray et al., 2018). In adults, kidney tumours commonly form in the renal parenchyma and renal pelvis (Wong-Ho Chow, 2010). Kidney cancer represents significant global burden, and many people living with kidney cancer can experience a sequelae of unmet supportive care needs and reduced quality of life (Leal et al., 2018). Supportive care is defined as the provision of the necessary services for those living with or affected by cancer to meet their physical,

emotional, social, psychosocial, informational, spiritual and practical needs during the diagnostic, treatment, and follow-up phases, encompassing issues of survivorship, palliative care and bereavement (Paterson et al., 2020). This definition provides a holistic person-centred lens to the classification of supportive care needs for people affected by kidney cancer to inform the evidence synthesis rapid review. Therefore, the aim of this rapid review is to understand what are the unmet supportive care needs of people affected by kidney cancer, and what is the most frequently reported individual domain of unmet needs.

Proposed research methods

Design: Rapid Review (reported according to PRISMA Guidelines)

Eligibility Criteria

Types of studies

- Qualitative and quantitative methods irrespective of research design.
- Commentaries, editorials, and studies where unmet supportive care needs are not reported will be excluded.

Types of participants

- Participants (≥ 18 years of age) with a confirmed histological diagnosis of kidney cancer and their partners.
- All stages of disease and treatment modalities will be included
- Studies conducted with patients with mixed cancer groups, except when a separate sub-group analyses of only kidney cancer participants are reported will be included.

Types of Outcomes measures

The primary outcome of this review was non-oncological outcomes related to:

- Unmet supportive care needs (e.g. the Supportive Care Needs Survey (Boyes et al., 2009) and qualitative experiences.

Literature Search

The CINAHL, MEDLINE, PsychINFO, (date cut off 1990 to present, limited to English language). Key words (kidney, renal, cancer, neoplasms, unmet needs, health care need, patient care, psychological assessment) will be mapped to each electronic database using the appropriate MeSH term, or used free search terms. The search architecture will use a wide range of keywords and free text items to increase the sensitivity and specificity of the searches. Additional searches were performed in Google Scholar, and Google for grey literature. The references of relevant systematic reviews and original articles included in this current review will be screened for studies potentially meeting our inclusion criteria.

Data collection and analysis

Selection of studies

Following de-duplication, the summer vacation student and CP will screen the titles and abstracts of the identified records for eligibility. The full text of all potentially eligible records will be retrieved and screened linking together multiple records of the same study in the process. Any disagreements were resolved by discussion.

Data extraction and management

The summer vacation student will extract the outcome data and compare for accuracy with CP. Any disagreements will be resolved by discussion. The extracted data will include 'characteristics of included studies' (study design; countries and institutions where the data were collected; participant demographic and clinical characteristics, unmet supportive care needs; the numbers of participants who were included in the study; losses and exclusions of participants, with reasons).

Assessment of risk of bias in included studies

Quality assessment of individual research studies will be conducted in parallel with the data extraction.

Data synthesis

A narrative synthesis approach to summarise the evidence. This will involve tabulation of primary research studies, identifying similarities and differences within and between studies, and seeking explanations for these differences (Centre for Reviews and Dissemination, 2009). Specifically, this will involve the following steps: data reduction and sub-group classification based on levels of evidence and the review question, narrative data comparison (iterative process of making comparisons and identifying relationships) and finally, drawing conclusions (Whittemore and Knafl, 2005).

Preferred study discipline being undertaken by the student

Given the clinical multidisciplinary importance of this project it will be open to any health care professional student group, irrespective of discipline.

Potential benefits to the student and to the department

A rapid review methodology has been selected to ensure timely completion of this project. This project will benefit the student to develop and gain experience of evidence synthesis with an experienced clinical academic in cancer. This rapid review will provide an original contribution to the literature to support the student to gain experience of dissemination through publication to help build their professional development and curriculum vitae. Where possible, the student will be supported and encouraged to present the results of this project at conference (CHARM) and Synergy Grand Rounds. This review will help inform clinical practice guidelines, models of supportive care and future research directions for people affected by kidney cancer.

Department within ACT Health Directorate / Canberra Health Services where the student will be based

This student will have the opportunity to work within the Synergy Nursing and Midwifery Research Centre. They will be provided with a desk, computer and access to printing

facilities with expert librarian input. They will work closely with their academic mentor in Synergy (where possible) face-to-face to ensure optimal support and timely access to their academic mentor to promote a positive research experience and timely completion of their summer project.

Please submit form to preclinical.research@act.gov.au