

An assessment of study characteristics, quality and reporting in cancer prehabilitation literature: a scoping review

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Supplementary Material 1: Full Search Strategy and Eligibility Criteria

Strategy A

Database: PubMed and Scopus

Fields Searched: Title, Abstract, Keywords

Filters: Publication date: 2004 – 2024

Strategy B

Database: Mednar

Fields Searched: Title, All categories

Filters: Publication date: 2004 – 2024

Search Terms (Applied to all databases)

Population: (*Cancer OR Neoplasm OR Tumour OR Tumor OR Leukemia*)

AND

Intervention: ((*Exercis* OR "Physical Activ*" OR "Exercise Intervention" OR "Resistance training" OR "Resistance Band" OR "Circuit Training" OR "High Intensity Interval Training" OR HIIT OR "Low intensity Steady State" OR "Aerobic Training" OR "Anaerobic Training" OR Walk* OR Walk-based OR Workout OR Treadmill OR Yoga OR "Thai Chi" OR "Strength Training" OR "Strengthening Program*" OR "Weight Lifting" OR "Weight Training" OR Endurance training OR "Multimodal Training" OR "Training Program*" OR "Training Regim*" OR Crossfit*) AND (*"Pre-treatment" OR "Pre-Surgery" OR Prep* OR Prehab* OR Pre-op* OR Preop* OR Before OR Prior*))

AND

Outcomes: (*Fitness OR "Physical Function" OR "Exercise Test" OR "Exercise Performance" OR "Physical Assessment" OR "Physical Capacity" OR "Exercise Capacity" OR Well-being OR Wellbeing OR "Quality of Life" OR "QoL" OR "HRQoL" OR "Patient Reported"*)

Eligibility Criteria

To be included, papers/articles must adhere to all the following criteria:

- 1) Studies that recruited participants ≥ 18 years of age living with any type or stage of cancer and scheduled for any type of treatment.

2) A prehabilitation exercise intervention of any exercise type (e.g., Aerobic, anaerobic, resistance, or multimodal) must be implemented as the main focus of the study/intervention and the protocol must be reported in the paper. Perioperative interventions will be considered if the results and exercise protocol of the prehab phase are separate from the rehab phase.

3) Outcomes must assess and report parameters of physical function or patient-reported outcomes within the results. This includes fitness tests like 6MWT, sit-to-stand tests, body composition, and subjective questionnaires like the HADS.

4) Any study design and real-world evidence source will be considered if they meet all other eligibility criteria. Reviews and published protocols (that do not include results) are not eligible for inclusion.

5) Full-text articles must be available in English and published within the last 20 years.