

## HKCA Formal Project Assessment Rubric

### Randomized controlled trials (RCT)

	Excellent	Good	Needs improvement
Title and abstract	<ul style="list-style-type: none"> <li>-Identification as RCT in the title</li> <li>-abstract: concise and clear summary of background, study design, methods, results and conclusions</li> </ul>	<ul style="list-style-type: none"> <li>-Identification as RCT in the title</li> <li>-abstract: covers the background, study design, methods, results and conclusions</li> </ul>	<ul style="list-style-type: none"> <li>-does not identify as RCT in the title</li> <li>-abstract: does not cover all the key components of an abstract</li> </ul>
Introduction	<ul style="list-style-type: none"> <li>-Concise and relevant background information</li> <li>-Clear explanation of study rationale</li> <li>-Research idea is novel and/or clinically impactful</li> <li>-Describes clearly the main objectives and hypothesis</li> </ul>	<ul style="list-style-type: none"> <li>-Provides background information</li> <li>-Description of study rationale given</li> <li>-Description of objective and hypothesis provided</li> </ul>	<ul style="list-style-type: none"> <li>-Relevant background information not provided</li> <li>-Rationale of the study is not clear or cannot be justified</li> <li>-No/inadequate description of the objective and hypothesis</li> </ul>
Methods	<ul style="list-style-type: none"> <li>-Trial design: description of trial design eg parallel, crossover</li> <li>-Eligibility criteria: inclusion and exclusion criteria are appropriate</li> <li>-Description of intervention is clear and allows replication of the whole intervention</li> <li>-Primary and secondary outcomes are clearly defined. Appropriate and relevant outcomes are selected.</li> <li>-Sample size calculation for primary outcome is statistically sound</li> <li>-appropriate method used to generate random allocation sequence eg computer generation</li> </ul>	<ul style="list-style-type: none"> <li>-Trial design: description of trial design eg parallel, crossover</li> <li>-Eligibility criteria: most of the important inclusion and exclusion criteria have been described</li> <li>-Description of intervention is provided, and the intervention can mostly be replicated</li> <li>-Primary and secondary outcomes are defined. Mostly appropriate but some potentially important outcomes are missing.</li> <li>-sample size calculation provided</li> <li>-appropriate method used to generate random allocation sequence eg computer generation</li> </ul>	<ul style="list-style-type: none"> <li>-Trial design not described</li> <li>-Eligibility criteria: important inclusion and exclusion criteria are missing</li> <li>-Intervention cannot be adequately replicate based on description provided</li> <li>-Primary and secondary outcomes not adequately defined. Primary outcome not relevant to main study objective</li> <li>-sample size calculation not provided</li> <li>-inappropriate/no method used to generate random allocation sequence</li> </ul>

	<p>-description of how allocation concealment is achieved is provided</p> <p>-Describes person responsible for generation of allocation sequence, patient enrollment, and patient assignment</p> <p>-Blinding is described (who and how)</p> <p>-statistical methods: appropriate method used to compare the groups</p> <p>-methods for additional analyses described eg adjusted analysis, subgroup analysis</p> <p>-registration of study in trial registry prior to patient recruitment</p> <p>-local ethics approval obtained</p>	<p>-description of how allocation concealment is achieved is provided</p> <p>-Describes person responsible for generation of allocation sequence, patient enrollment, and patient assignment</p> <p>-Blinding is described (who and how)</p> <p>-statistical methods: appropriate method used to compare the groups</p> <p>-local ethics approval obtained</p>	<p>-description of how allocation concealment is achieved is not provided</p> <p>-Does not describe person responsible for generation of allocation sequence, patient enrollment, and patient assignment</p> <p>-blinding not described</p> <p>-statistical methods: incorrect methodology used</p> <p>-local ethics approval not obtained</p>
Results	<p>-Clear description of participant flow: number assigned, received intervention, analyzed. Losses and exclusions after randomization described with reasons Flow diagram provided</p> <p>-Dates of trial start and end given</p> <p>-Appropriate and clear tables and/or figures are provided.</p> <p>-Results of outcomes, estimated effect size and precision (eg 95% confidence interval) are described</p> <p>-Description of important harms or unintended effects</p>	<p>-Description of participant flow: number assigned, received intervention, analyzed. Losses and exclusions after randomization described. Flow diagram provided</p> <p>-Dates of trial start and end given</p> <p>-Tables and/or figures used and can be interpreted.</p> <p>-Results of outcomes, estimated effect size and precision (eg 95% confidence interval) are described</p> <p>-Description of important harms or unintended effects</p>	<p>-Unclear description of participant flow. Losses and exclusions after randomization not described Flow diagram not provided</p> <p>-Dates if trial start and end given</p> <p>-Tables and/figures not provided or presentation does not allow proper interpretation.</p> <p>-Results of outcomes, estimated effect size and precision inadequately described</p> <p>-harms and unintended effects not described</p>
Discussion	<p>-highly appropriate interpretation of study results</p>	<p>-Reasonably appropriate interpretation of study results</p>	<p>-inaccurate interpretation of study results</p>

	<p>-High quality critical analysis (ie in comparison with existing literature, overall interpretation when also considering existing literature, in context of study centre)</p> <p>-Able to demonstrate scientific novelty and/or important clinical significance/impact.</p> <p>-highly appropriate explanation of generalizability of results</p> <p>-High quality explanation of study limitations (ie potential bias, sample size)</p> <p>-Conclusion: summarizes key information, appropriate interpretation of key findings. Highlights importance of findings.</p>	<p>-Adequate critical analysis (ie in comparison with existing literature, overall interpretation when also considering existing literature, in context of study centre)</p> <p>-Able to explain the clinical significance and potential impact of the study results</p> <p>-generally appropriate explanation of generalizability</p> <p>-adequate explanation of key study limitations</p> <p>-Conclusion: summarizes information, provides appropriate interpretation of findings</p>	<p>(including over or under exaggeration)</p> <p>-Inadequate critical analysis</p> <p>-Unable to demonstrate any clinical relevance/significance</p> <p>-inappropriate/inaccurate explanation of generalizability</p> <p>-important study limitations have been omitted or not explained</p> <p>-Conclusion: does not convey the important information, inappropriate interpretation of findings</p>
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## Grading

Title and abstract 1-3

Introduction 1-3

Methods 1-3

Results 1-3

Discussion and conclusion 1-3