

INPLASY PROTOCOL

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Corresponding author:
Changfu Shao

2694194988@qq.com

Author Affiliation:
jose

Support: Changfu Shao.

Review Stage at time of this submission: Preliminary searches.

Conflicts of interest:
None declared.

Percutaneous puncture for Cystic Kidney Disease: a systematic review and meta-analysis

Shao, C¹.

Review question / Objective: To assess the safety and efficacy of Percutaneous puncture for Cystic Kidney Disease.

Condition being studied: Renal cysts are fluid-filled cavities with an epithelial lining that, depending on their size, can cause clinical symptoms and thus require conservative or surgical therapy. Nephrectomy is primarily used in cattle for simple kidney cysts while sclerotherapy is well established in humans.

Information sources: Pubmed embase cochrane medline cnki wanfang sinomed.

INPLASY registration number: This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 07 February 2022 and was last updated on 07 February 2022 (registration number INPLASY202220016).

INTRODUCTION

Review question / Objective: To assess the safety and efficacy of Percutaneous puncture for Cystic Kidney Disease.

Rationale: The safety and efficacy of Percutaneous puncture for Cystic Kidney Disease is controversial.

Condition being studied: Renal cysts are fluid-filled cavities with an epithelial lining that, depending on their size, can cause

clinical symptoms and thus require conservative or surgical therapy. Nephrectomy is primarily used in cattle for simple kidney cysts while sclerotherapy is well established in humans.

METHODS

Search strategy: ("Kidney Diseases, Cystic"[Mesh]) OR (((((((((Kidney Diseases, Cystic[Title/Abstract]) OR (Cystic Kidney Disease[Title/Abstract]))) OR (Disease*, Cystic Kidney[Title/Abstract])) OR (Kidney

Disease, Cystic[Title/Abstract])) OR (Cystic Kidney Disease*[Title/Abstract])) OR (Cystic Renal Disease*[Title/Abstract])) OR (Disease*, Cystic Renal[Title/Abstract])) OR (Renal Disease*, Cystic[Title/Abstract])) OR (Kidney*, Cystic[Title/Abstract])) OR (Cystic Kidney*[Title/Abstract])) AND (((("Sclerotherapy"[Mesh]) OR ("Drainage"[Mesh])) OR ("Punctures"[Mesh]) OR (((Punctures[Title/Abstract]) OR (Puncture[Title/Abstract])) OR (Micropuncture*[Title/Abstract])))).

Participant or population: Patients with Cystic Kidney Disease.

Intervention: Percutaneous puncture.

Comparator: Laparoscopic decortication.

Study designs to be included: Not reported.

Eligibility criteria: No recurrence, reduced size of cysts.

Information sources: Pubmed embase cochrane medline cnki wanfang sinomed.

Main outcome(s): Safety, efficacy, recurrence, size of cysts.

Quality assessment / Risk of bias analysis: Cochrane egger funnel.

Strategy of data synthesis: Review manager, stata16.

Subgroup analysis: Age, country, race, dose and so on.

Sensitivity analysis: Stata.

Country(ies) involved: China.

Keywords: Kidney Diseases, Cystic Punctures drainage Sclerotherapy.

Contributions of each author:

Author 1 - Changfu Shao.

Email: 2694194988@qq.com