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Rigid Forceps Technique for Inferior Vena Cava Filter Retrieval: a systematic review and meta-analysis

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ADMINISTRATIVE INFORMATION

Support - No.

Review Stage at time of this submission - Preliminary searches.

Conflicts of interest - None declared.

INPLASY registration number: INPLASY202480053

Amendments - This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 10 August 2024 and was last updated on 10 August 2024.

INTRODUCTION

Review question / Objective We searched CNKI,Wanfang Databases, MEDLINE, Cochrane and Pubmed from February 2006 to December 2023 for case series or clinical trials concerning IVC filter removal. Retrieval rate of filter,main complications and motality are analysed.

Condition being studied Some centers have reported their initial experience about rigid forceps technique for Inferior Vena Cava (IVC) filter retrieval, but most of the current studies are singlecenter studies with small sample size. In December, it is difficult to form a definite conclusion about the technical success rate, the rate of IVC injures and other complications and exposure time. Therefore, we performed this meta-analysis to evaluate the the safety and outcome of rigid forceps technique for IVC filter retrieval.

METHODS

Search strategy The literatures search for relevant articles was performed using the following keywords alone and in combination: "endobronchial forceps"; "rigid forceps"; "biopsy forceps"; "Inferior Vena Cava filter"; "complex filter removal"; "filter removal". Browse article abstracts, exclude irrelevant reports, select relevant literatures to download and read the full text.Check the related literature of the full-text literature similar literature and references to avoid omission.

Participant or population Patients IVC filters were successfully removed via rigid forceps technology between February 2006 and December 2023.

Intervention Rigid forceps technology was used in IVC filter retrieval.

Comparator No.

Study designs to be included Randomisedcontrol trials(RCTs),case series,casecontrol series,cross sectional studies,cohort studies,prospective studies,retrospective studies.

Eligibility criteria The inclusion criteria for this Meta-Analysis included published original articles reporting more than 5 patients in whom IVC filters were removal using rigid forceps technique.

Information sources We searched CNKI,Wanfang Databases, MEDLINE, Cochrane and Pubmed from February 2006 to December 2023 for case series or clinical trials concerning IVC filter removal.

Main outcome(s) the technical success rate;major main complications rate , minor complications motality and motality are analysed.

Quality assessment / Risk of bias analysis The quality of included articles was assessed through the Newcastle-Ottawa guidelines.

Strategy of data synthesis The meta-analyses will be performed using bothrandom effects models and fixed effects the chi-square based Q test and quantified using I2 statistics. If I2 statistics were>50%, heterogeneity was considered to besignificant. The potential publication biaswas appraised primarily by a funnel plot. Anasymmetric plot suggests a likely publication bias. The funnel plot asymmetry was further evaluated using Egger's Test. NoteExpress and Excel software will aldctrrt.inf statistical software packages R(http:// www.R-project.org, The R Foundation).

Subgroup analysis No.

Sensitivity analysis We conduct the sensitivity analysis by excluding literature successivety. When the system review contains>10 articles, the Egger test will be conducted to evaluate publication.

Language restriction English; Chinese.

Country(ies) involved China.

Keywords Rigid Forceps Technique;Inferior Vena Cava Filter; Retrieval; meta-analysis.

Contributions of each author

Author 1 - Tong Mei - He designedextraction table, screened abstracts and extracted data from selected papers, analyzed the data and drafted themanuscript.

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