**INTRODUCTION**

**Review question / Objective:** This meta-analysis was developed to compare the relative safety and efficacy of preoperative computed tomography-guided hook-wire and liquid material localization for pulmonary nodules.

**Condition being studied:** Pulmonary nodules (PNs) are commonly detected during the computed tomography (CT) screening of lung cancers. At present, various localization materials, such as hook-wire, coil, radio-label, localization needle, and liquid materials have been used in preoperative PN localization.

**METHODS**

**Search strategy:** (((hook wire) AND (((((glue) OR (lipiodol)) OR (blood)) OR (indocyanine

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**INPLASY PROTOCOL**

Comparison between preoperative hook-wire and liquid material localization for pulmonary nodules: a meta-analysis

Wang, SJ1; Gao, X2; Hui, H3; Li, N4; Zhou, Y5; Yin, HT6.

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**INPLASY registration number:** This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 22 May 2023 and was last updated on 22 May 2023 (registration number INPLASY202350082).
green)) OR (blue))) AND (nodule)) AND ((lung) OR (pulmonary)).

Participant or population: Patients with PNs.

Intervention: Hook-wire localization.

Comparator: Liquid material localization.

Study designs to be included: Studies eligible for inclusion met the following criteria:(a) Types of studies: comparative studies;(b) Diseases: patients with PNs;(c) Types of interventions: preoperative hook-wire versus liquid material localization;(d) Languages: not limited.

Eligibility criteria: Studies eligible for inclusion met the following criteria:(a) Types of studies: comparative studies;(b) Diseases: patients with PNs;(c) Types of interventions: preoperative hook-wire versus liquid material localization;(d) Languages: not limited.


Main outcome(s): Successful localization rate.


Strategy of data synthesis: For the categorical data, pooled odds ratios (ORs) with 95% confidence intervals (CIs) were calculated, while measurement data were assessed using pooled mean differences (MD) values with 95% CIs. The I2 statistic and Q test were used to assess heterogeneity, with an I2 > 50% being considered indicative of significant heterogeneity.

Subgroup analysis: Yes.

Sensitivity analysis: Yes.

Country(ies) involved: China.

Keywords: Localization, Hook-wire, Liquid, Pulmonary nodule.

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