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# A scoping review of indocyanine green (ICG) as mapping agent for lymphatic-sparing laparoscopic varicocelectomy in adolescent varicocele

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## ICG fluorescence offers:

✓ Minimal incidence of post-op hydrocele

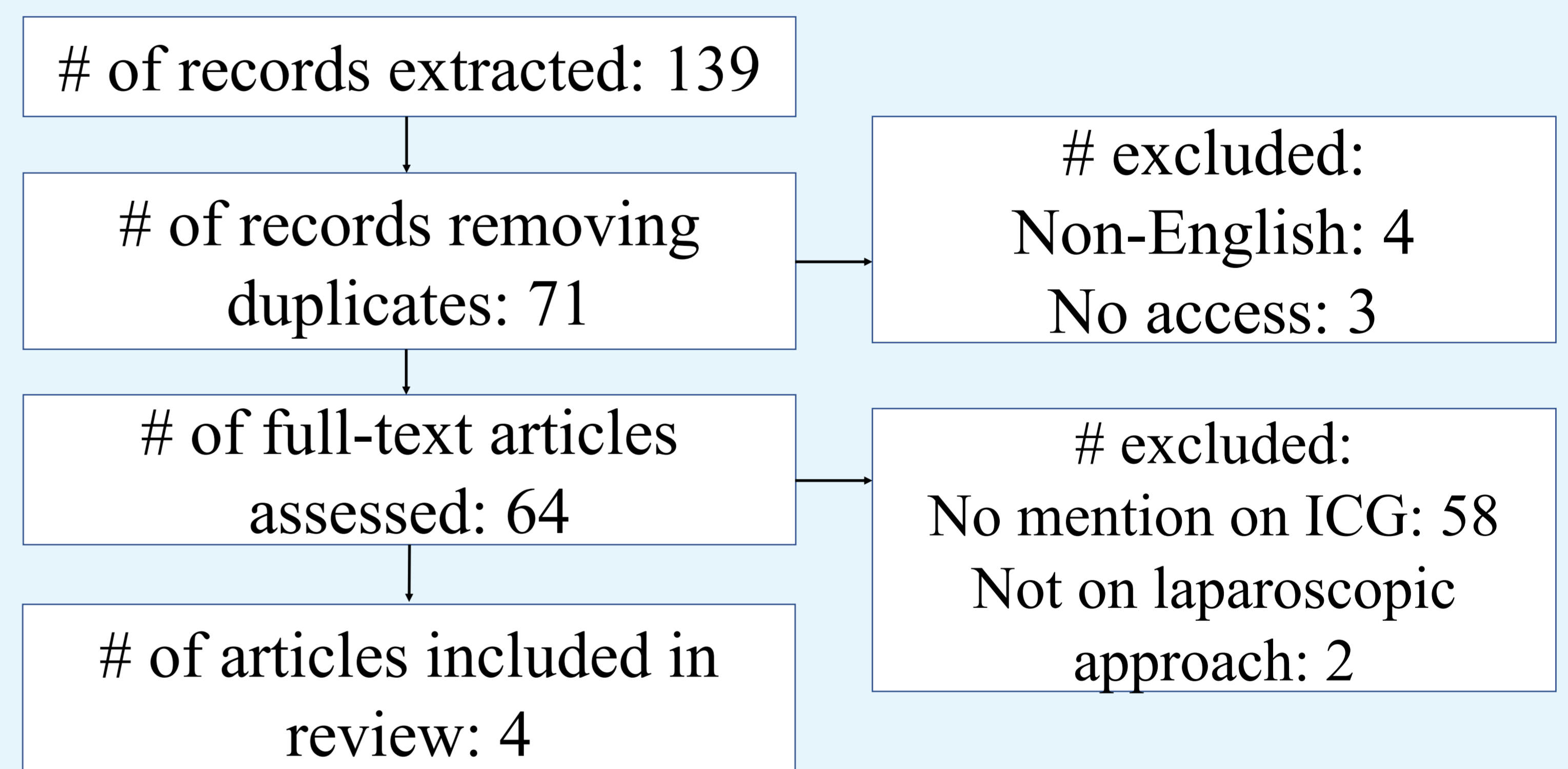
✓ Good lymphatic mapping rate

✓ Minimal recurrence of varicocele

## 1. BACKGROUND

- Varicocele : **15% incidence**
- **Post-operative hydrocele** in 20-30% of patients received laparoscopic varicocelectomy
- Lymphatic-sparing approach using **methylene blue**:
  - scrotal skin discolouration
  - testicular injury
- **ICG** is an emergent mapping agent utilized to overcome these side effects

## 2. METHODS



## 3. RESULTS

- 130 patients included in the analysis
- Technique: intra-testicular route, dosage 1mg - 6.25mg
- 100% mapping rate of lymphatics
- Hydrocele rate: 0% across studies
- Recurrence of varicocele was 3% (n= 3)
- Wound complications (2%, n=2) and intra-testicular calcification (2%, n=3)

