

INTRODUCTION

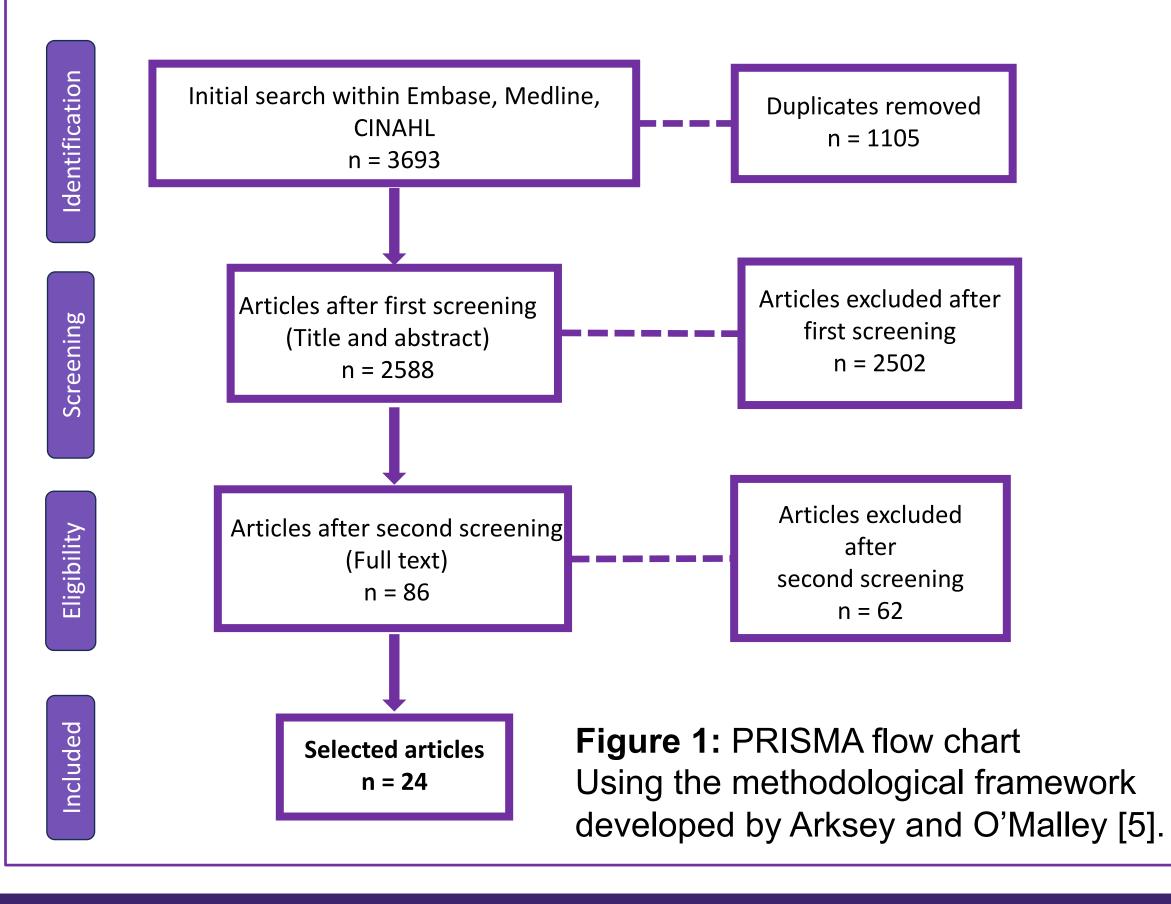
- 320 million people receive dialysis worldwide [1].
- 1 interest in home dialysis therapies (HT) [2].
- HT underutilized despite cost-effectiveness and patient-oriented benefits [3].
- HT prevalence rates in Canada are static: 17% for peritoneal dialysis (PD) & 3% for home hemodialysis (HHD) [4].
- Eligibility and selection for HT vary; not well studied.
- Appropriate patient screening and selection are critical to improve utilization and ensure optimal outcomes and patient satisfaction.

AIM

• To perform a scoping review of existing literature to determine existing screening tools and practices for assessing eligibility for HT.

METHODS

- **Databases searched**: Embase, Medline, and CINAHL searched for relevant articles published between January 2007 - May 2023. A combination of keywords and MeSH terms used were based upon the identified core concepts of the research question.
- Inclusion criteria: 1) Patients > 18 years with ESKD requiring dialysis. 2) Dialysis at home or in a long-term care centre. 3) Studies indicating facilitators or barriers to HT. 4) Full-text peer-reviewed articles translated into English.
- **Exclusion criteria:** 1) Palliative/conservative care or pediatric patients. 2) Other kidney replacement therapies which did not include HT.



Patient Screening and Selection for Home Dialysis Therapies: A Scoping Review

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RESULTS

Publication Characteristics

- 24 articles met our eligibility criteria for further analysis (Fig 1).
- 25% of the articles published between 2011 2013 (Fig 2).
- \uparrow in publications on HT in the post-pandemic era.
- ~46% of the articles were published by Canadian authors (Fig 3).
- Most are observational studies without interventions.

Subject Characteristics

- N = 6197 participants, 55% were male and had a mean age of ~60 years.
- PD was the main HT studied representing 15 of the 24 included articles (**Fig 4**).

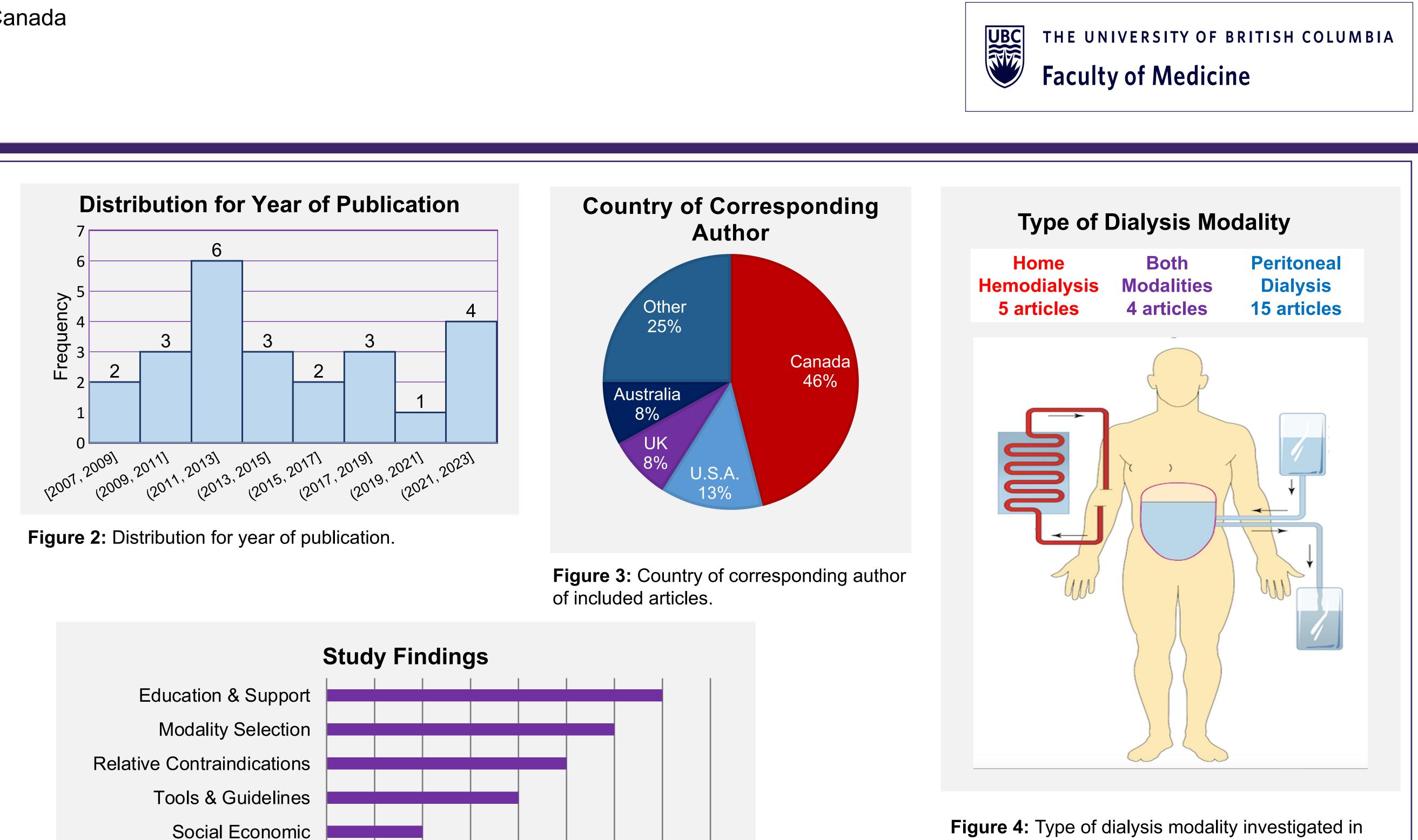
Key findings: Themes/topics identified in the process of assessing eligibility for HT (Fig 5).

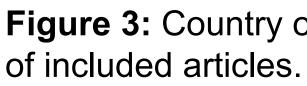
- Patient or program education & support requirements (29%):
- Lacking among patients, kidney care teams regarding HT candidacy.
- Patients who received education pre-dialysis were likelier to choose HT [6]. This education helped to provide \uparrow control over their lives.
- PD initiation required more extensive discussions with patients and their families.
- Process of Modality Selection (25%):
- Identifying PD candidates,
- Assessing PD eligibility,
- Offering PD if eligible,
- Patient choice,
- PD catheter insertion, and successful initiation of PD therapy.

• Relative contraindications (21%):

- Clinical e.g., lack of competence in prescribing,
- Operational e.g., lack of infrastructure;
- Patient and caregiver e.g., lack of adequate education, caregiver burnout, lack of confidence and fear of catastrophic events.
- Screening tools/guidelines (17%): Several tools developed
- Method to Assess Treatment Choices for Home Dialysis (MATCH-D),
- Jo-Pre-training Assessment Tool (JPAT),
- PD Practice Ability Form.
- Social economic considerations/ challenges to HT (8%):
- Poverty, housing instability,
- Care partner limitations, lack of storage space,
- Low health literacy

Limitations: The majority of the subjects were males, ~60 years old.





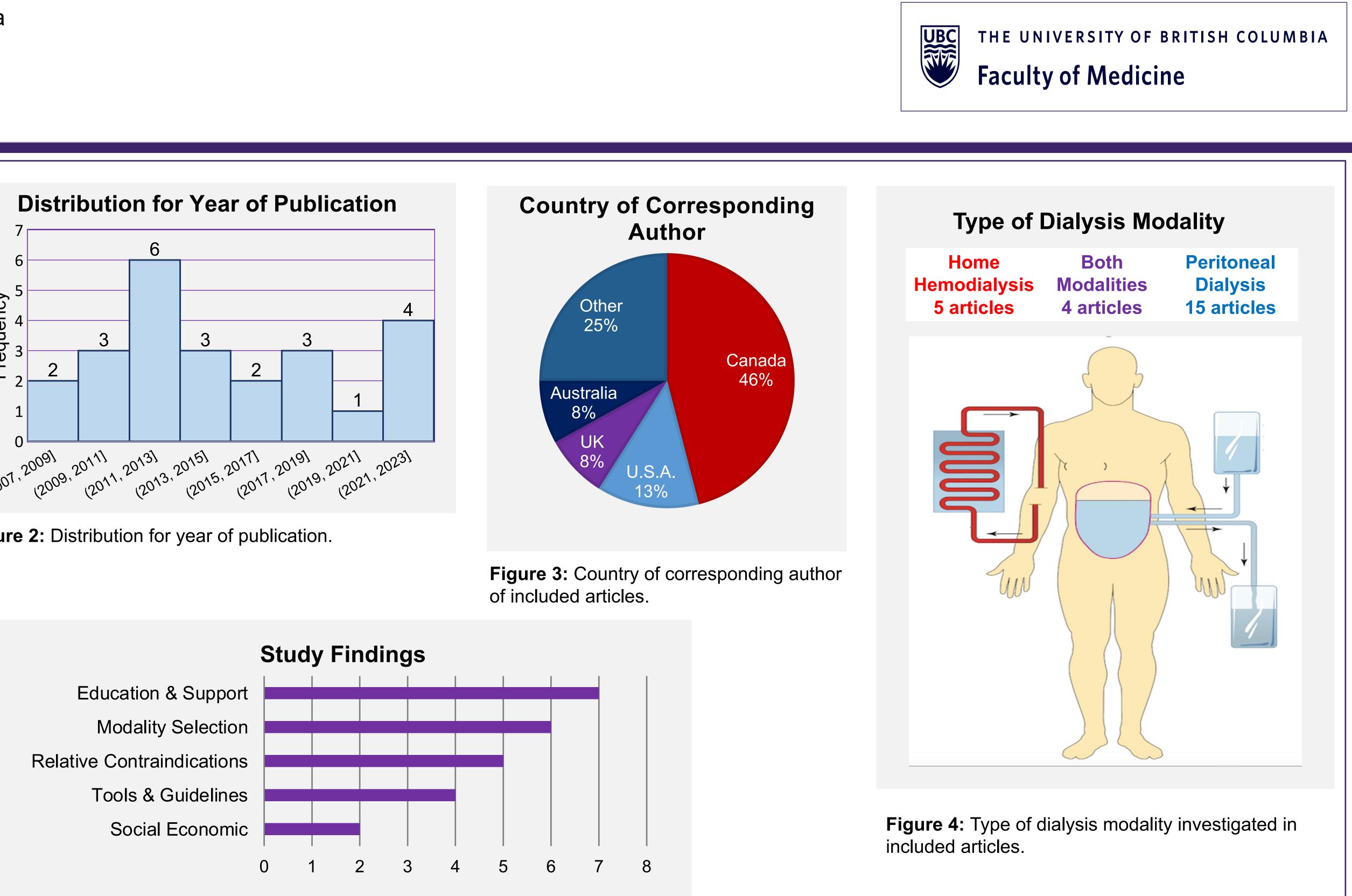


Figure 5: Key themes/topics identified in the process of assessing eligibility for HT.

CONCLUSIONS

- Patient screening and selection for HT require a comprehensive evaluation of clinic psychosocial, and logistical factors.
- Identified factors & tools provide valuable guidance in the decision-making for HT.
- Further research is required to validate and refine existing tools, to establish in various sociodemographic settings.

ACKNOWLEDGEMENTS

Vanessa Kitchin at the UBC Library - support database search strategy.

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