# Methods and Perceptions of Success for Patient Recruitment in Decentralized Clinical Trials

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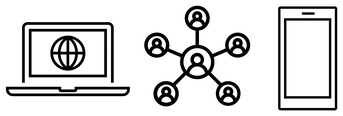
## Introduction

Major Barriers to Successful Clinical Research

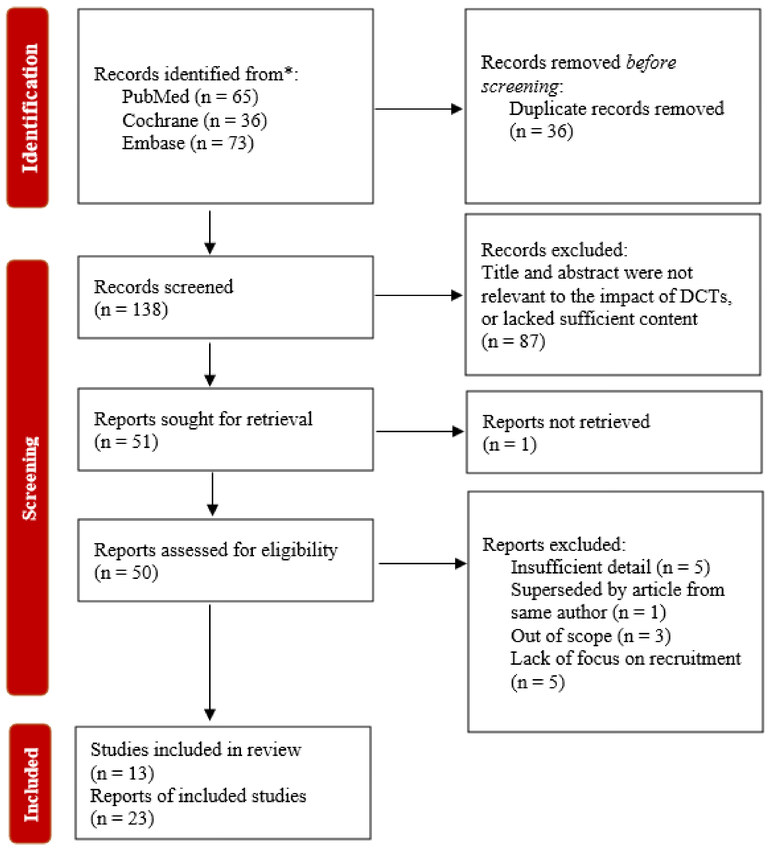
- Recruitment
- Retention
- Participant Diversity

Decentralized methods: A potential solution?



## Methods/Approach

Develop search equation using relevant terms → Conduct search in databases PubMed, Cochrane, and EMBASE → Identify powerful articles providing data on the impact of DCTs




## Results

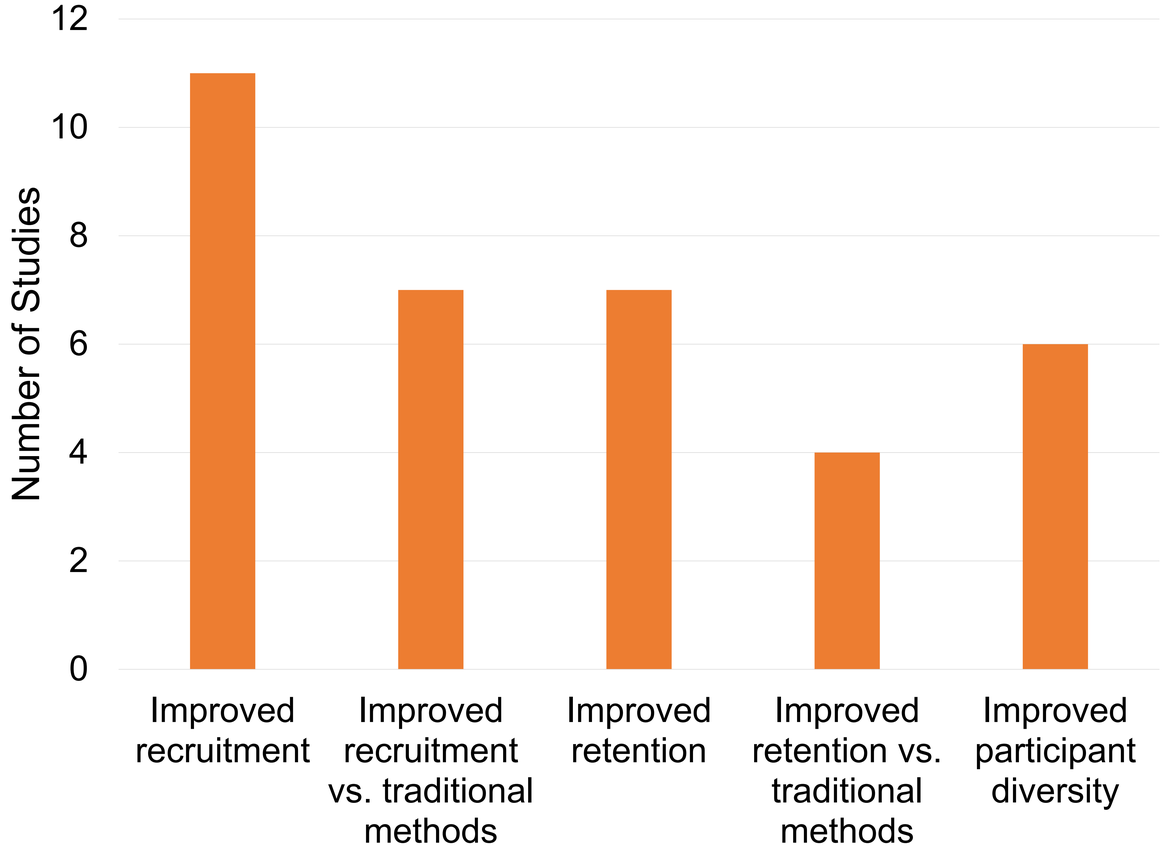
DCTs implement methods such as virtual visits, electronic consent forms, and wearable biomarkers

13 Identified Studies

11 reporting improved recruitment, 7 compared directly with traditional methods

7 reporting improved participant retention, 4 compared directly with traditional methods

6 reporting diverse sample populations




### Recruitment

- Survey finds remote interventions to be associated with 60-85% increase in likelihood to enroll
- Social media recruitment dramatically improves recruitment speed
- Decentralized recruitment via teleconsultation found to be more beneficial than conventional recruitment via health clinics

### Retention

- Rewards-based system in response to ePRO found to improve retention
- Study employing virtual companion application found to have 92% retention
- Retention in participants recruited with online methods may be higher due to those participants self-seeking trials

### Diversity

- Virtual studies able to enroll patients from rural areas with low physician coverage
- Mobile health applications coupled with proper training able to reach older population and those with limited health literacy
- Partnering rural satellite facilities with large academic centers may help with reaching underrepresented minorities

## Conclusions

Related reviews have stated a lack of published comparable data to determine if DCTs (Decentralized Clinical Trials) improved recruitment and retention. Results suggest this review addresses such a gap, by providing data on how decentralized methods can benefit recruitment, retention, and diversity, potentially highlighting a new standard for clinical trials moving forward.

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