Recruitment and Retention

David Wendler
Department of Bioethics
NIH Clinical Center
Disclaimer

The opinions expressed are my own. They do not represent the position or policy of the National Institutes of Health, Public Health Service, or Department of Health and Human Services.
Three Aspects of Subject Selection

A. **Selection**: determining who is eligible
B. **Recruitment**: inviting eligible individuals
C. **Retention**: retaining enrolled participants

I will focus on recruitment and retention
Need to Recruit and Retain

- To be ethical, clinical trials need to collect socially valuable data.
- To collect socially valuable data, clinical trials need to enroll and retain a sufficient number of participants.
- Hence, enrolling and retaining enough participants is ethically important!
Many Trials Fall Short

- Delays and failures to recruit enough participants undermines many trials.  
  Treweek et al Cochrane Database Syst Rev 2018;2:MR000013

- Almost half of NCI trials fail to enroll enough subjects for meaningful results.  

- 44% of randomized trials in the UK fail to enroll a sufficient number of subjects.  
  Walters et al. BMJ Open 2017;7:e015276
Need to be Proactive

- These trials raise concern that the risks and burdens faced by individuals who enroll (as well as the resources devoted to the trial) are not justified.

- Trials need to plan in advance how to recruit and retain enough participants.
Finding the Right Balance

- This is a strong ethical reason to increase recruitment and retention in clinical trials.

- At the same time, individuals get to make their own decisions about research participation.

- Moreover, overly aggressive recruitment and retention are ethically problematic.
The Wrong Response

- For example, one way to improve retention would be to forbid participants from withdrawing for any reason.
- That would be problematic.
- What are ethically better methods of recruitment and retention?
SUBJECT RECRUITMENT

Subject recruitment involves active attempts to attract specific individuals within the pool of eligible participants.
Recruitment for good reasons

- Do not focus recruitment on individuals who are (or appear to be) vulnerable.

- Ensure participants are recruited for reasons of science, not compromised (nor privileged) position.

Belmont Report
Site Impact

- Where a study is conducted can have a significant impact on who enrolls.

- Low inclusion of minority groups in some studies likely traces more to inconvenient study sites than more widely discussed concerns regarding trust in researchers.
Choosing a Site

- When choosing study sites, researchers should consider the impact on recruitment and retention, and consider how they can go to participants.

- NIH institutes have had study sites at clinics in DC, including the Unity Health Care Upper Cardozo Health Center.
Methods of Recruitment

Once the sites have been identified, researchers need to recruit participants:

- Solicit referrals from colleagues
- Incentives for referrals
- Incentives for researchers
- Targeted recruitment
- Advertising
Incentives to Enroll Participants

- Physicians receive payments for referring their patients to trials.
- Investigators are under considerable pressure to recruit participants, sometimes receiving financial incentives.

US Inspector General
Concerns about Incentives

- Do incentives to refer and recruit patients pose a conflict of interest?

To what extent might use of incentives encourage investigators to refer and enroll riskier/inappropriate participants?
Role of Advertising

- Advertising plays an increasingly important role in recruiting research participants.

- However, there is significant concern about the ethics of advertising, and not much guidance.
FDA Guidance

- Advertising is “the start of the informed consent and subject selection process.”

- IRBs should determine Ads are: not unduly coercive; do not promise a cure; use appropriate font size and visual effects; explain that test articles are investigational; do not emphasize payment or the amount

http://www.fda.gov/RegulatoryInformation/Guidances/ucm126428.htm
Proposed T.V. Ad

- Thumping music, swirling tie-dye colors: “Attention alcohol users...you are a candidate for a new research study.

- We are enrolling men and women, 18-40, to study how alcohol affects the brain.
Effect of Ads

- Does advertising affect which groups enroll?
- Does advertising affect understanding?
- Does advertising affect subject motivations (does it matter?)?
Payment

■ What role should payment play in recruiting research participants?

■ To what extent is it acceptable to advertise payment?

■ What does “do not emphasize” payment mean in practice?
Proposed Bar Coaster

Research Participants Wanted

Earn $50-$1295

Call
555-555-5555
Old Worry

- Many commentators and IRB members express ethical concern over payment.

- In particular, they worry that payments may undermine voluntariness, understanding, or altruism.

Gelinas et al. *NEJM* 2018;378:766-771
Largent, Lynch. *Yale J Health Policy, Law, Ethics* 2017;17:61-82
Data

- Empirical studies find that: individuals who focused on payment are more likely to understand; greater payment does not lead to greater willingness to take risks; payment does not undermine altruism.

New Worry

- The potential to make money may result in participants not being truthful.


- For example, they may misreport their history to enroll, or fail to report side effects to stay enrolled.
Possible Safeguards

- Rely on objective measures in the study.
- Use pro-rated and sequential rather than lump sum payments.
- Don’t disclose inclusion/exclusion criteria.

Other Challenges

- Data suggest that many problems recruiting participants trace to practical concerns: awareness of studies, transportation, parking, child care.

- Who addresses these concerns?
Difficult to Reach Participants

- Given all the challenges, recruitment efforts may focus on those who are most easy to identify and recruit.

- Yet, more difficult to recruit individuals may differ in scientifically relevant ways.

Goldman et al. CI Trials 2018; 15: 543-550
Learning Health Care

- Some argue that difficulties recruiting participants trace to current reliance on a “segregated” approach to clinical trials.

- Learning healthcare systems have been proposed as a way to address this concern.

Olson et al. The learning healthcare system. IOM report 2007 https://rethinkingclinicaltrials.org/
Increased Recruitment?

- Conducting research in the course of providing health care has the potential to increase enrollment.

- To further increase enrollment, some argue consent should be replaced with notification for low risk studies.

Cumyn et al. https://doi.org/10.1002/lrh2.10206
Asch et al. Healthcare 2020; 8:100462
Research Cohorts

- Alternatively, some have proposed to invite patients to consent to being entered into a pool of potential participants.

- Those who are eligible for a trial will be enrolled, possibly without notification.

During COVID, use and acceptance of telehealth has increased significantly.

More reliance on virtual participation might improve research enrollment.

Need for Data

- Many trials do not describe their recruitment methods and few studies have assessed which methods are effective.

- Trials that use new methods should evaluate them systematically.

Rosser et al. CI Trials. 2022;19:239-250
Assessment of 4 Methods

Real time screening in electronic medical record: effective

Defer consent for EEG if parents not in the hospital: controversial but effective

Weekend screening: expensive

Expand sites: very effective

Subject retention involves attempts to keep enrolled participants in the study.
Retention of participants

- To collect valid data, recruited participants need to be retained.

- Data suggest that enrolled participants can experience problems in their personal lives as a result of their participation in clinical research.

Obligations

■ Some argue that regarding individuals as having an obligation to participate might increase enrollment and retention.

Schaefer et al JAMA 2009; 302: 67–72

■ Others worry this approach may actually decrease participation.
Subjects versus Participants

- Alternatively, to encourage retention it might help to turn research *subjects* into research *participants*?

- Do research WITH individuals, NOT on them.
Encouragement?

- Participants make vital contributions to research.

- We need to find ways to emphasize this fact, and encourage retention, without undermining voluntariness.
Results from NIH Participants

- Yes: they tell me that I can withdraw.
- But: they never explain why I shouldn’t!

How do we ethically address this concern?
Treatment and Treats

How people are treated affects their willingness to contribute to joint activities.

- Explain importance of contribution?
- Add perks, like good meals?
- Throw parties?
Payment Schedules

- Some studies modify their payment schedules to encourage participants to stay in the study: pay more for later procedures; completion bonuses.

- These practices raise their own ethical concerns.
Some Data

- Regular phone calls did not increase retention.
  
  Glassman et al. Clinical Trials 2020;17:195-201

- Payment, in-person contact, and study flexibility increased retention.

Summary

- Recruitment and retention are vital to ethical clinical research.

- The challenges they raise have not received the attention they deserve.
Further Reading

- Ewing et al. Dev Cogn Neurosci 2018;32:130-137
- Robinson et al. Trials 2016;17(1):294
- Tobler, Komro, Eval Programm Plan 2011;34(2):87-96