Why do people refuse to take part in biomedical research studies? Evidence from a resource-poor area

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Abstract

Participants’ refusal to take part in research is an unpleasant experience that investigators face. This paper highlights some of the reasons why people from resource-poor settings refuse to take part in health research. This paper also highlights standards which investigators can adopt to avoid unnecessary refusals and at the same time ensure that individuals have the right to participate and freedom to refuse. Our objective was to explore reasons why people refuse to join research studies. We conducted focus group discussions with people who had refused to take part in a number of biomedical research studies but agreed to be interviewed in this study. The study was undertaken in the peri-urban and urban areas of Blantyre district; Bangwe, Mpemba and Madziabango. We found nine key factors that influence people to refuse to participate in biomedical research. The factors are failure to follow traditional customs, lack of study benefits, superstition, poor informed consent procedures, ignorance of health research, fear of strangers, lack of cultural sensitivity, poor timing, and previous bad research experience. People refuse to participate in health research for a number of reasons which can be overcome if researchers embark on community engagement before implementing their studies.

Introduction

Ethical conduct in research involving human participants has become one of the principal challenges faced by researchers. In recent times, increasing attention has been paid to ethical implications of carrying out research in settings with low socioeconomic status. This trend has become particularly central in Africa owing to an increasing number of multinational research institutions operating in sub-Saharan African countries.1–4

The progress of medicine today is a result of biomedical research which necessarily relies on successful recruitment of human participants in order to yield meaningful results. In this sense, human participants are instrumental in securing data useful to researchers. A participant’s refusal to participate in research is referred to as a non-response in a survey.5 For the purpose of this paper, we shall use the term ‘refuser’ to refer to individuals who declined to take part in research after being approached by research staff.

At the heart of ethical recruitment of participants in a study is the principle of informed consent. There is a general consensus amongst researchers, scientists and bioethicists that acquiring effective informed consent from research participants is a prerequisite to the conduct of an ethically sound study.6 Among other things, valid informed consent requires that participation in research should be voluntary and that individuals should be treated as autonomous agents. The requirement for voluntary participation, however, may result in many people refusing to participate. Refusals are likely to affect the timeline of research and also compromise the generalizability of results,8 since it is unclear how people who refuse differ from those who agree to participate. There has been limited empirical research aiming to capture the perspectives of refusers in developing countries.

Many studies have investigated the reasons why people participate in biomedical research9–12 however, there has been less research and little attention specifically on reasons why people refuse to participate in biomedical research. Most of the data available on refusals are centred on non-response13 to postal questionnaires from different surveys.

In this paper we report findings from an anthropological and bioethics study of clinical research in Malawi. The study explored the reasons why people refuse to join biomedical research and examined possible strategies for minimizing refusals. The participants that were interviewed in this study had refused to participate in a number of different biomedical research projects before this study but agreed to be interviewed in this study. We believe that knowledge of participants’ perspectives and concerns with their involvement in research can lead to better recruitment efforts, improve the informed consent process, and enhance the overall trust between participants and researchers.

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This paper reports findings from an Anthropological and Bioethics Study of Clinical Research in Malawi (ABSCRM). The study explored the reasons why people refuse to join biomedical research and examined possible strategies for minimizing refusals. The participants that were interviewed in this study had refused to participate in a number of different biomedical research projects before this study but agreed to be interviewed in this study. Knowledge of participants’ perspectives and concerns with their involvement in research will enhance recruitment efforts, improve the informed consent process, and enhance the overall trust between participants and researchers.

Methods

Design

For this study, a qualitative approach was adopted and data were collected through focus group discussions (FGDs). A total of 108 refusers were successfully recruited and they participated in 12 FGDs, each composed of 6-12 people. The FGD questionnaire guide was translated into the local
language Chichewa. All FGDs were recorded on audio tapes which were then transcribed and translated from Chichewa into English by members of the research team.

Setting
The study was conducted in Blantyre District, in the Southern region of Malawi. The specific sites were in the peri-urban settings of Madziabango and Mpemba health centre catchment areas, and Bangwe Township which is a very densely populated urban area. These locations were selected for this project because several medical research projects have been conducted there in the past.

Recruitment
Refusers were identified by project staff from the registers for the various trials which were ongoing at the time. These registers were maintained at the three sites by the project staff for the various projects. Each project register had details of all the participants involved in the study as well as those who declined to participate after being invited to enrol. Health Surveillance Assistants (HSAs), who are part of the community, were then tasked with the responsibility of following up the refusers in their homes in order to inform them about the current project and to invite them to visit the health centres or other specific locations for the FGDs. Once the individuals had gathered for each FGD our research team ensured that they all met the eligibility criteria for refusers. Verbal consent was obtained from those who agreed to participate in the FGDs. It was difficult to find sufficient refusers willing to take part in the focus group discussions. Therefore some FGDs had to be rescheduled.

Data analysis
Analysis of the FGD transcripts was carried out manually and electronically using computer software N6*. We analysed the contents of the transcribed texts to identify patterns and themes that emerged from the data. A comparison of major themes was then made in the final stage of analysis.

Research Ethics Committee Approval
The study was approved by the College of Medicine Research Ethics Committee (COMREC).

Results
Demographics
Overall, there were more women than men in the refusers’ FGDs. Of the 108 participants, 21% were males and 79% were females. There were no significant differences in average age between the male participants (31 years) and the female (30 years). Between the peri-urban and urban respondents, there was a slight difference in the average duration of education - 7 and 9 years respectively.

Description of findings
We identified ten different self-reported reasons why people had refused to take part in various health studies. These were:
- Failure to follow traditional customs
- Fear of strangers
- Superstition
- Poor informed consent procedure
- Lack of study benefits
- Ignorance of health research
- Lack of cultural sensitivity
- Poor timing
- Previous bad research experience
- Failure to follow traditional customs

The overall perception of the participants is that traditional procedure has a big impact in making people decide whether to take part in a study or not. They reported that failure to conduct community engagement and failure to follow the right protocol during recruitment of participants would make people refuse to take part in research. The procedure they suggested as a better practice was for interested researchers to first seek consent from their chief or community leader and then conduct sensitization meetings and a community gathering where the whole community would be briefed about the study. If the chief says yes to a research project to take place in the area, his/her subjects would equally feel secure to accept and take part in it. For example one participant from Mpemba said

"they should first inform the leaders of the community like the chief and when they accept, the people will also accept the research. But if they just come from wherever they come from and start the research without involving our community leaders, people will not accept it because they are not aware."

In response to the question 'why is community engagement important?' several participants self-reported that community engagement would give them a chance to understand more information about the study and be able to ask questions to the researchers before deciding whether to accept or decline the research. They also reported that people refuse to participate in studies when they are taken by surprise and not informed in advance about the study. This leaves the communities unprepared to decide whether to participate or not. One participant said

"some researchers just arrive without informing the chief and the people. We can refuse because we have not been informed."

Another participant said

"the researchers were coming here all over a sudden. They would just send a short message that we are coming tomorrow and moreover among the visitors was a white person. It is better maybe if they can start telling the people this week that next week visitors will come."

Participants also argued that another advantage of community engagement is that it would dispel rumours and misconceptions that circulate in their communities.

Fear of strangers
Participants reported that people refuse to participate in health studies when researchers are strangers in the community. One participant reported

"it will be difficult for us to accept their research if they just come without even wearing a uniform and being people we have never seen them here before."
Another respondent reported:

“people in the villages here are afraid to see strangers moving from house to house, everybody would run away because we have never seen such people in our community, for example, there was this group of researchers that was going around the villages with a white man distributing drugs and mosquito nets. For us villagers, we rarely see white people in our homes. So it was difficult to accept the drugs and mosquito nets which they brought to us because we could not trust them.”

However, several participants reported that they would be comfortable to associate themselves with ordinary villagers and local doctors they know.

**Superstition and blood drawing**

People refuse and express reservations if studies constitute interventions that involve drawing of blood. This is tied to beliefs where by blood is seen as a weapon used in witchcraft for inflicting pain or sending pestilence to people. Belief in fear of witchcraft is the norm amongst most Malawians.

"In magic, blood is revered and feared for the miraculous power it possesses and confers. Blood is believed to unleash power."

Other people also associate the drawing of blood with rumours about blood sucking. They also fear that more blood would be drawn from their bodies. Several participants emphasized that studies that involve drawing of blood are very risky and have a greater potential for refusal. One participant observed:

"most people fear that their blood will be drawn out if they participate in research."

On the other hand, some participants said that they were discouraged to take part in studies that involved taking of blood simply because they were told that they would be given presents if they consented to donate blood. For example, one participant said:

“People were discouraged to participate in the study because they heard that participants who gave a bottle of blood in exchange were given basins and wrappers.”

Other fears that were reported concerning drawing of blood and dispensation of drugs include drawing more blood for sale, and rumours that drugs being dispensed are intended to make people barren or sterile. Participants said that people see this as a government conspiracy to reduce population growth. For example, one participant said that;

“at first I had refused to participate in the Onchocerciasis study because there were a lot of things being said about it, that the government wanted to make sure that many people are not having many children since many of us are not going for family planning [Participant is talking about distribution of Mectizan drugs]. Many of us got scared with these stories. But when we saw this other lady with skin itches all over her body, we said that what others were saying is not true. So we changed our minds.”

**Poor informed consent procedures**

Participants reported that people refuse to take part in studies when researchers fail to explain clearly about the objectives of their research. One participant said:

“Sometimes it also depends on how the researchers explain their research to people. If they do not explain it clearly, people will not understand it and it will be difficult for them to participate.”

**Lack of study benefits**

People decline to participate in research that does not provide benefits which can either accrue to the individual or to the area as a whole. Participants reported that they would like to participate in studies that would benefit them and not just to join studies only for altruistic reasons. For example, one participant said:

"What people expect to hear is how the research would be conducted and how the study will benefit them. If they see that indeed things can improve, they can say yes, let the study take place, mainly when they see that the study will be beneficial in uplifting their health."

**Ignorance of health research**

Ignorance and lack of understanding about research are some of the factors that would influence people’s refusal to participate in health research. One participant observed:

“The other thing that researchers from the urban areas should know when coming here is that they will be meeting people from the village. And we lack understanding in most things. It is important therefore to take time to explain to us and come to an agreement. We should first be told the purpose of the research before starting to conduct it so that we should have time to think about it otherwise if we are rushed we would refuse.”

Another participant questioned:

“don’t researchers know that some of us never went further with school? Instead of explaining properly so that we understand, he sometimes spoke in English and that used to confuse us as to what he really meant”.

Analysis of the interviewees’ responses also shows that many people especially from the rural areas are ignorant about certain procedures in health research. One participant who refused to take part in a malaria study expressed discontentment over the use of medicated bed-nets. The participant said:

“The white man tells me to sleep under a mosquito net that has got medication in it. What if I wake up in the morning only to find sores all over my body?”

Similarly, several participants were not aware of the rationale behind re-taking of blood samples every year especially in longitudinal studies. One participant expressed disappointment and said:

“They can get blood today. A year can elapse before coming again and request to take your blood again. You wonder as to what they did with the blood they took the first time. People refuse to participate because of that.”

**Lack of cultural sensitivity**

Several participants shared the view that they refused to take part in studies where researchers were not respectful to them. Participants observed from a number of studies that
researchers were either disrespectful or did not know how to approach the people. One participant said

“researchers must talk to the people with love and patience. They ought to know how to approach the people. They should not threaten them. If people are threatened, they will not listen to them. But if they talk to them with love, they would definitely understand.”

Participants also noted that researchers overlooked the importance of approaching husbands in studies that targeted women. Researchers did not involve husbands of the women they sampled during the consent seeking process. This resulted in either many women refusing to participate or husbands deterring their wives from taking part. One participant said

“husbands of many women are very troublesome. Women may be shouted by their husbands if they accept to take part in a study right at the hospital. It would have been good if researchers approached married couples in the villages and explained to both of them together”

Several participants were also dismayed and refused to join a Mectizan drugs studies because researchers were measuring people’s heights with a rigid ruler (wooden rod) to determine dosage. Mostly a wooden rod is used to measure the height of a dead body for funeral purposes. For example, one participant said

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Poor timing

Participants reported that there are certain periods of the year when they are engaged in their fields with farming activities. These moments are not convenient for rural participants to enrol in research studies. They said that most people refuse to take part during the rainy season when they work in their farms. One participant from Madziabango said

“during the farming period, people are busy. They have no time for research. It is important to know the time people are free to do things like research.”

Previous bad research experience

Participants reported that they would reject studies when they look back at what similar previous studies had done to them. If studies have not been helpful people would refuse to join them. Similarly, they would decline to participate if such studies harmed people’s lives. Many people reported to have refused to take part in studies in which HIV testing was involved due to psychological reasons. One participant said

“I refused to participate in the AIDS research because I felt that if they found the virus in my blood I would be a worried person and cannot live peacefully in my home knowing that any day I will die.”

Discussion

Several reasons why people refuse to participate in health research have been revealed in this study. Many of these might also be applicable to refusers in other similar settings.
Participants in our sample were those who had previously refused to take part in a number of different biomedical research activities.

Participants in our sample reported that they would refuse to participate in a study where the researchers failed to follow the traditional custom. Figure 1 below illustrates the traditional custom that participants want researchers to follow. Following the traditional custom would benefit the researcher because it would minimise unnecessary refusals. What participants are referring to as traditional custom is in fact community engagement, which we have modified to suit the needs of all participants. This is illustrated in Figure 1.

Community engagement is a process of engaging community members in research through consultation, sensitization, involvement and providing feedback. In Figure 1, the steps for community engagement show a linear pattern with one entry point for the researcher which is the community leader. Participants agree that the researcher has to go through the community leader. If the community leader accepts the study then he or she should sensitize the community by organising a meeting to involve them in the study. The community involvement meeting should be attended by the researcher, community leader and all the community members. Among other things, during this meeting, the researcher is expected to introduce and brief the community members about the study. Community members should also have a chance to ask the researcher questions where they do not understand. The community can give its permission whether they want the study to be conducted in their community. This also ensures that the community members have ownership of the research project. Informed consent process follows community involvement. Single people can be invited to participate individually while married persons can be interviewed as a couple to facilitate joint decision making. Participants feel that when all this is successfully carried out, then the study can begin.

Participants stressed the importance of observing the community engagement for successful recruitment and informed consent. This demonstrates that people would like to participate in studies if they are satisfied with the rationale and information about the study. There is wide acknowledgement of the need for community engagement in biomedical research, particularly in developing countries. Currently, engaging communities has become a critical aspect of planning and implementing biomedical research. The traditional customs suggested by the refusers constitute the needs of all participants.

Another important theme that emerged from this study was the importance and application of the principle of beneficence. Participants reported that they would not participate in research studies which do not either benefit them or the community. Participants also reported that some studies set bad precedents which demoralise their future participation in similar studies. Resource poor settings remain potential targets for exploitative research.

Our results showed that people in peri-urban areas would refuse to participate in health research owing to ignorance and lack of understanding about certain concepts and procedures. Researchers need to know the level of understanding about health research of their potential participants. The significance of using community engagement as a way of informing the community about the study should therefore not be underestimated. During community engagement, the researcher can find out if there is need to educate potential participants about certain procedures involved in the study.

Finally, another factor which contributes to people's refusal to take part is the concern that some researchers are not conscious of local culture. Results show that participants were disgruntled with researchers who were not friendly, hospitable and lacked skills to properly approach participants. Several participants from Mpemba and Madziabango said that they were not happy to see researchers measuring heights of people with a rod which is normally used to measure corpses. Researchers should know more about the aspects of culture of the people they would be investigating, and try to anticipate the ways in which their actions and props like measuring rods might be interpreted locally. A number of researchers seem to be in a hurry to implement their studies while neglecting the welfare of their participants. This compromises the ethical conduct of research. Knowing the culture, daily lifestyles, and opinions of participants would help researchers know when and how to best approach their participants.

**Recommendations**

The traditional customs suggested by the refusers constitute the first step towards minimising refusals. We believe that adequate community engagement will minimise refusals.
We offer the following specific recommendations as principles of community engagement which we have developed as a result of this study.

Four Principles of Community Engagement in Research

1. Community consultation
   - Brief the community leaders (chiefs, political leaders and religious leaders) about the research project
   - organize a meeting with them
   - introduce the research project to the leaders
   - explain in detail all the procedures involved in the research
   - outline any risks and benefits to individual participants and to the community
   - allow the leaders to ask questions about the research project
   - make sure you cover the topics listed in (3) below
   - obtain their permission to conduct the research project in their community.
   - Alternatively, you may approach the community through meeting with a Community Advisory Board (CAB) where one exists
   - members of the CAB can then explain the project to community leaders and seek their permission for the research project to be conducted in their community

When permission has been granted, the researchers, community leaders and members of the CAB can organize a community sensitization meeting.

2. Community sensitization
   - organize sensitization workshops for community members
   - inform them about the proposed research
   - encourage a shared effort between researchers and participants
   - ensure that the research activities are responsive to the needs of the community
   - make sure that members of the community understand what the research is all about
   - define clearly the role that will be played by the community members
   - clarify any risks and any compensations
   - allow community members to ask questions about the project.

[Important: you should avoid providing information that might lead to stigma and discrimination. For example, if a research project is about HIV/AIDS and one of the recruitment criteria is that potential participants have to be HIV positive, this fact should not be made known to the whole community, as they would then know that people recruited in the study are HIV positive. A common solution to this problem is to design the study so that both HIV+ve and HIV-ve individuals are enrolled, and enrolment then does not imply any individual’s HIV status.]

3. Community Ownership/partnership/involvement
   - Regard local communities participating in research as partners or ‘owners’.
   - This partnership should begin before the conduct of the research project and should continue during and after the completion of the research project.
   - Agree in advance with the community leaders about what will happen after the research is over
   - During any study, it is likely that the researchers will need to respond to urgent needs of the community or of individuals. As far as possible, agree in advance with donors, Ethics Committee and community leaders about the possible form and extent of such assistance.

4. Feedback
   - When results are available, feed these back to research participants and their community.
   - Make this effort, even if results may not be of immediate benefit to participants, and despite the fact that it may be difficult to trace all who took part in the study.
   - Community feedback is another way of fostering ownership (in this case, ownership of results).

We conducted feedback sessions about the results in our study sites. We wrote a letter to the Clinical Officer-in-charge of each of the health centres, informing them about our schedule for the dissemination of results. We also requested the local HSAs who had helped us with the recruitment of participants to inform all the five categories of people we had recruited. We prepared power point presentation slides together with printed handouts in the local language, Chichewa. About 80% of the participants were present during the dissemination of results. Participants appreciated this feedback. They reported that this was the first time they had seen researchers disseminating results to the community in which they had conducted their research.

Conclusion

We believe that most ‘refusers’ would have been willing to participate in research if the above principles had been carefully followed. Our findings require validation in a larger sample from other settings in Malawi and other developing countries, but meanwhile researchers need to take into account the concerns raised by the refusers we interviewed. Most of these concerns could be minimised by engaging the community, both before research is initiated and after it has been completed.

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Report on the workshop “Enhancing Clinical Trial Oversight in Malawi”

The workshop “Enhancing Clinical Trial Oversight in Malawi” was held on the 19th and 20th June at Nkopola Lodge in Mangochi. The workshop aimed to provide a platform for stakeholders to discuss and learn about the latest developments in clinical trial management and oversight in the Malawi context. Participants included representatives from various organizations such as the Medical Research Council, the Pharmacy Medicines and Poisons Board (PMPB), the Centre for Bioethics in Eastern and Southern Africa (CEBESA), and other international organizations involved in clinical research.

The workshop was organized by CEBESA and hosted by PMPB. Participants included research ethics committee members from different institutions, researchers, and representatives from regulatory bodies. The workshop had two main objectives: to enhance the understanding of clinical trial oversight in Malawi and to align national policies with international best practices.

Day 1 of the workshop focused on the regulatory environment for clinical trials in Malawi. Key topics included the Malawi PMPB Act, ethical review processes, and the role of regulatory oversight in ensuring the protection of study participants. Participants also discussed the importance of stakeholder engagement and the need for capacity building in clinical trial management.

Day 2 was dedicated to practical sessions and discussions on specific issues related to clinical trial oversight. These included the challenges of informed consent, data protection, and the management of clinical trial data. Participants also had the opportunity to visit the PMPB’s offices and get a first-hand look at the organization’s working environment.

The workshop concluded with a panel discussion where participants shared their insights and recommendations for improving clinical trial oversight in Malawi. The discussions highlighted the need for sustained engagement with stakeholders to ensure that clinical research in Malawi is conducted ethically and in compliance with international standards.

At the end of the workshop, participants were encouraged to continue the discussions and collaborate with PMPB and other stakeholders to address the identified challenges. The workshop was considered a significant step towards enhancing clinical trial oversight in Malawi and strengthening the country’s capacity in this area.