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# Rapid appraisal of needs in reproductive health care in southern Sudan: qualitative study

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# Abstract

**Objectives** To identify the need for reproductive health care among a community affected by conflict, and to ascertain the priority given by the community to reproductive health issues.

**Design** Rapid appraisal. This comprised interviews with key informants, in-depth interviews, and group discussions. Secondary data were collated. Freelisting, ranking, and scenarios were used to obtain information.

**Setting** Communities affected by conflict in southern Sudan.

**Participants** Interviews and group discussions were chosen purposively. Twenty interviews with key informants were undertaken, in-depth interviews were held with 14 women, and 23 group discussions were held.

**Main outcome measures** Need for reproductive health care. Perceived priority afforded to reproductive health issues in comparison with other health problems. **Results** Reproductive health in general and sexually transmitted diseases in particular were important issues for these communities. Problems in reproductive health were ranked differently depending on the age and sex of the respondents. Perceptions about reproductive health issues in communities varied between service providers, and community leaders. Settled and displaced communities had different priorities and differing experiences of reproductive health problems and their treatment.

**Conclusion** Rapid appraisal could be used as the first step to involving communities in assessing needs and planning service provision.

### Introduction

Until the late 1980s little attention was paid to the opinions of communities receiving relief aid. Accountability of non-governmental workers, where it existed, was to the organisation with which they worked and to donor agencies. The humanitarian world has become Correspondence to: Dr Palmer celia@gn.apc.org

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increasingly concerned that the provision of aid has, on occasion, had negative consequences for the intended beneficiaries.<sup>1-3</sup> Observations of aid provision reveal serious concerns, such as a lack of account paid to the context of particular situations and a failure to appreciate or use the capacities of the recipient communities.<sup>4-6</sup> Steps are now being taken to improve accountability to beneficiaries.<sup>7</sup>

In addition to these developments there has been a move towards the introduction of reproductive health services in the context of conflicts. The international conference on population and development held in 1994 heralded a shift away from population control towards a more holistic view of women's health.8 At the conference the particular problems for populations affected by conflict were recognised. The document referred to "migrants and displaced persons [who] in many parts of the world have limited access to reproductive healthcare and may face specific serious threats to their reproductive health and rights."8 The United Nations and other agencies began discussions on what services should be provided.9 However, little but anecdotal evidence was available on the reproductive health status of populations affected by conflict.<sup>10</sup> In addition there had been almost no systematic gathering of information on how beneficiaries prioritised reproductive health or on the services they wanted, nor was there a recognised method for gathering such information. This study, commissioned by Oxfam, had two aims: to identify the need for reproductive health care among a community affected by conflict in southern Sudan and to ascertain the priority given by the community to reproductive health issues in this context.

Sudan is the largest country in Africa, with an estimated population of around 25 million. A civil war has been continuing largely between the peoples of the north and those of the south. Since 1983 an estimated 1.2 million people have been killed, and the number of internally displaced people has been estimated at 4 million. The area where the study took place was in the hands of rebels and under constant threat from aerial bombardments. In this region some people were living in their own homes—"settled"—but some had been uprooted—"displaced."

#### Methods

#### Selection of methods

In emergencies needs are most often assessed using rapid assessment procedures.<sup>11–13</sup> These do not routinely include contributions from the community. This contrasts with the techniques of rapid appraisal,<sup>14–16</sup> which have been used in many different contexts, including in the United Kingdom, to assess health needs in primary care.<sup>17</sup> The original objectives were to provide good quality and timely information, and to include local people, producing results that would lead directly to interventions.

For this study several methods of rapid appraisal were selected in order to deliver results in a short time frame, to address sensitive topics, and to be flexible enough to be used in a conflict zone. These methods were: interviews with key informants, in-depth interviews with women, group discussions, and the collation of secondary data. Semistructured questionnaires were drawn up to use as a guide<sup>18</sup> for interviews with key informants and for in-depth interviews. A topic guide was used for group discussions; it included general questions about wellbeing and specific questions about reproductive health. The question-naires and topic guide were drawn up in advance and were based on previous qualitative work on reproductive health.<sup>19-22</sup> They were piloted and revised in the field.

#### Interviews with key informants

Three types of key informants were selected: (*a*) administrators, leaders, and other authorities; (*b*) community based outreach workers; and (*c*) members of the study population. This range of key informants has been recommended for use in qualitative research.<sup>22</sup>

#### In-depth interviews

These interviews were undertaken solely with women as they were most likely to face problems in reproductive health and their views were the most difficult to access. The advantages of in-depth interviews are that respondents can often speak more freely and the interviewer is able to probe in depth about topics without interruption. The disadvantages include the possibility that the answers are lacking in spontaneity. In-depth interviews took place at the same villages where group discussions were held. The women were sampled by spinning a pen on the ground at a central point in the village. The researcher walked in the direction in which the pen pointed. Women living in consecutive houses in this direction were interviewed.

#### Group discussions

Group discussions were chosen to generate ideas and provide information about social views and attitudes. Random sampling of villages was attempted but abandoned as some villages were considered inaccessible because of their location or insecurity. Villages were instead chosen to give a spread across both urban and rural populations and to include both settled and displaced people. Village leaders were informed of the study the day before when possible, and volunteers were then assembled on the day the discussions took place.

#### Ranking, freelisting, and scenarios

Several techniques were used in the discussions and interviews. The first of these was freelisting, whereby respondents are asked to develop lists of illnesses, healthcare resources, or community priorities.28 Their main advantage is that they give an idea of the degree of general awareness of a problem.<sup>22</sup> Freelisting was used in all interviews and group discussions. The second technique was matrix ranking, whereby problems or illnesses are ranked according to several different criteria.<sup>24</sup> This provides information about the priority the community gives to one problem over another. Common diseases identified by the community were ranked alongside problems in reproductive health inserted into the list by the researcher. The ranking was undertaken by five displaced and five settled groups. Each problem was ranked according to (a) prevalence, (b) impact on the duration of sickness, (c) impact on mortality, and (d) the availability of treatment. To include illiterate people each disease was

# Examples of scenarios presented in group discussions

### Pregnancy outside marriage

A young girl finds that she is pregnant. She is not married. What is she most likely to do? What else could she do? What will happen to her? What else could happen? What would be a good outcome for the girl? What would be a bad outcome for the girl?

# Domestic violence

A married woman is being beaten by her husband more and more often. What is the most likely reason why he is beating her? Who will she talk to about her husband? What will she do to try to stop the situation continuing? What would be a good outcome? What would be a bad outcome for the woman?

represented by a drawing on a card, with the name written below in both English and Arabic. The third technique was the use of scenarios, whereby hypothetical stories of an event are presented to the group or individual who are then asked to state what the outcome would be if that problem occurred in their own community (box). This method is particularly useful in discussing sensitive issues, as the discussion is not based on the experience of any person present. It was used in the group discussions and in-depth interviews.

### Secondary data

Secondary data were obtained from health facilities, non-governmental sources, and local administrators.

#### Analysis

Interviews with key informants were held in English, whereas all other discussions and interviews were held using translators (three in total) and were usually in Arabic. A minority were held in other local languages. All group discussions were taped in the field and transcribed later, other interviews were written down in full at the time. Analysis of discussions and interviews was undertaken by hand. Lists of topic headings, each with a group of subheadings, were drawn up after the texts had been transcribed and read through several times (examples of these headings are: prevalence of miscarriage; causes of sexually transmitted diseases, etc). The headings were used to develop a card file. The full transcription was photocopied several times. All sections of the text were cut and pasted on to these cards under the relevant headings to amalgamate all comments on the same topic area, when necessary text was pasted under two or more headings. Data from secondary sources, interviews, and observations were then analysed and used to compare results and triangulate the data.

# Results

Within six weeks 20 interviews with key informants, 14 in-depth interviews, and 23 group discussions were undertaken (table 1), either at the two main towns in the area or in nine of the surrounding villages. CAP was present at all except a few group discussions that were run by local leaders or non-governmental workers after a short training period. The group discussions had an average of 11 people, with a minimum of four and a maximum of 23. Groups were made up of people of the same sex and a similar age (with the exception of one mixed sex group). All tribes in the area were represented, and one group discussion was held with soldiers. The key informants included 12 health providers, five local leaders, two representatives from non-governmental organisations (non-health), and one teacher.

All the results cannot be presented in detail here, but a selection have been chosen that illustrate the four main themes identified: (*a*) there were clear needs in reproductive health; (*b*) there was a mismatch between the views of service providers and the community; (*c*) there was variation in the perception of need according to age, sex, and whether the community was settled or displaced; and (*d*) the lack of supplies coupled with numerous barriers to accessing services.

#### Clear needs in reproductive health

The most consistent reproductive health problem identified, often spontaneously, was that of sexually transmitted diseases. Perceived prevalence was very high. Of 11 key informants who ranked diseases in their community in order of prevalence, nine placed sexually transmitted diseases in the top four. Men and women of all ages were concerned about sexually transmitted diseases and their sequelae.

"Sexually transmitted diseases are very common here. Maybe of all of us here, some of us have it."(Group discussion; displaced man.)

The matrix ranking exercise undertaken by some of the groups also showed much concern about sexually transmitted diseases (table 2). The most commonly listed ones were syphilis and gonorrhoea. The symptoms described were often severe, and people described complications such as stillbirth and infertility. Several reasons for the increase in prevalence were given.

"The movement of people and the war has contributed to the spread of these diseases and young men forcing girls to go with them." (Group discussion; settled man.)

Data from the health service confirmed the perceived high prevalence of sexually transmitted diseases. They were the fourth most common reason

#### Table 1 Demographic data of both groups and individuals interviewed

	Interviews with key informants (n=20)	Group discussions (n=23)	In-depth interviews (n=14) Displaced communities (7); settled communities (7)		
Type of community	Representing settled populations (9); representing displaced communities (11)	With settled communities (10); with displaced communities (13)			
Sex	Male respondents (9); female respondents (11)	Male groups (14); female groups (8); mixed groups (1)	All female		
Age	Predominantly middle aged (about 25-45 years)	Groups of young people (5) (about 13-20 years); groups of middle aged people (14) (about 21-39 years); groups of older people (4) (40 years and older)	Reproductive age (15-35 years)		

	Occurrence		Sickness		Death		Lack of treatment	
	Settled	Displaced	Settled	Displaced	Settled	Displaced	Settled	Displaced
AIDS	10th	10th	3rd	4th	2nd	1st	1st	1st
Childbirth	7th	9th	9th	9th	6th	7th	6th	3rd
Cough	3rd	3rd	5th	7th	5th	9th	5th	8th
Diarrhoea	5th	4th	3rd	8th	1st	3rd	6th	8th
Hernia	4th	5th	6th	3rd	4th	2nd	9th	2nd
Infertility	9th	8th	7th	5th	9th	10th	3rd	10th
Malaria	1st	1st	7th	10th	3rd	5th	8th	3rd
Miscarriage	8th	7th	10th	6th	7th	6th	2nd	7th
Skin diseases	2nd	2nd	1st	2nd	10th	8th	10th	6th
Sexually transmitted diseases	6th	6th	2nd	1st	8th	3rd	4th	5th

A rank of 1st suggests that the disease is a high burden, occurs often, results in many days of sickness or death, or has little treatment available within the community concerned.

for attendance at the main hospital. Altogether 7437 consultations at outpatient departments were for venereal disease (13% of 33 140 total consultations). A survey undertaken in 1995 among attenders of antenatal clinics attenders tested 100 consecutive women for syphilis using the "Macro-Vue" rapid plasma reagin test.<sup>25</sup> They were also tested for HIV using the ELISA (Detect) and confirmed positive using recombinant HIV-1 and HIV-2 kit (Recombigen). Eleven women (11%) tested positive, and 4% of the women tested positive for HIV.

Table 2 Banking of condition according to settled and displaced communities

Miscarriages were the most commonly mentioned problems in reproductive health after sexually transmitted diseases. Among the 14 women interviewed in depth a total of 69 pregnancies were reported. Of these, nine pregnancies were said to have ended in miscarriage, one ended in a stillbirth, and 10 children who were born alive had since died.

"In April and May [1997] the number of miscarriages were very high—about three quarters of pregnant women. (Key informant; community leader.)

The reasons given for the large number of miscarriages included sexually transmitted diseases, other infections, lack of good nutrition, and finally the war itself.

"In 1991 the guns were suffocating, and the sounds of the guns may lead to a miscarriage. The fear of the Antonov [bomber] and the running may also lead to back pain and then miscarriage." (Key informant; community leader.)

Perceptions about the incidence of sexual violence were conflicting. Some key informants thought that the incidence was falling, but others disagreed. Few women were prepared to discuss this issue; those that did stated that the perpetrators of violence were deserters from the army. One group of internally displaced people had moved their homes away from the road to avoid contact with these people,

"The other problem women face is deserters. They can do anything and force you to sleep with them. Sometimes three or four of them one after the other." (Key informant; outreach worker.)

Although the judicial system was apparently working, women would not always admit to violent incidents.

"The other thing is this silent rape. Women go to the bush, and they get raped. They don't say anything." (Key informant; health service provider.)

During discussion of a scenario about rape those at risk were identified and so were possible outcomes. "Younger girls and women collecting water and firewood away from the house are at risk [of rape] ... She will be happy if the husband agrees to stay with her. If he refuses, it will make her unhappy and ashamed to stay in that community." (Group discussion; displaced men.)

# Mismatch between the views of service providers and those of the community

Some providers of health services stated that abortions were not taking place, but discussions with local people revealed that abortion was an issue.

"Some people don't want to be pregnant, they take herbs and chloroquine injections by breaking the glass and drinking it. They also take Omo [a washing powder] ... people die because of this." (Key informant; community leader.)

These methods of abortion were described in response to a scenario.

"Sometimes girls use batteries—99% of the girls who do this will die. They pound the batteries, and then they put it in water and drink." (Group discussion; young settled girls.)

Similarly, some service providers thought that domestic violence was not occurring.

"Violence against women is not occurring in southern Sudan as women are treasured." (Key informant; health service provider.)

Group discussions with men and women, as well as in-depth interviews, showed that this was not always true.

"No stranger has been violent to me, but at home this violence is normal." (In-depth interview; internally displaced woman.)

Responses to scenarios provided information on the context of the violence.

"The reasons for beating are mismanagement of funds, misconduct, if the woman refuses to have sex with her husband, improper way of receiving visitors, infidelity, abuse of her husband, rumour mongering, and theft .... Some husbands are always drunk and don't provide for their wife or children ... when the wife asks him he just starts beating the wife." (Group discussion; displaced men)

Perceptions of the prevalence of problems occurring in labour also varied. Some service providers thought that "not many women die in childbirth," or said "I don't think the problems are too bad." There was a recognition, however, that it was difficult for them to obtain accurate information. "I don't think too many women are dying, but if a women dies in the village she will be buried, and there is no way of knowing." (Key informant interview; health service provider.)

In group discussions maternal mortality and morbidity were perceived to be high.

"Yes, yes, yes, we know of many women who die in childbirth. We know of about nine in the last year." (Group discussion; settled women.)

Secondary data collated from primary care centres suggested maternal mortality ratios as high as 845 per 100 000 live births.

# Differences in perceived need according to age, sex, and degree of displacement

Different age and sex groups within the communities held different views. Older men in the settled community were least likely to think childbirth and miscarriage were common problems, ranking them last. Young women, however, ranked them third and sixth. Men thought that the extent of maternal mortality and morbidity was not great among their community.

"Some women die but it is not that common." (Group discussion; displaced men.)

Women, however, thought that many women were dying and others suffering complications after birth.

"Many women die in childbirth. Seven to eight last year. Also there are cases of the child dying inside the mother. This problem was there before but has now increased." (Group discussion; displaced women.)

Differences in views were also identified between whether people were settled or displaced. The ranking exercise showed that although the perceived occurrence of disease was similar in both communities, the availability of treatment and the impact of different diseases in terms of duration of sickness and death varied considerably (table 2). When asked about general threats, people in the settled community were most likely to mention health, complaining about "continuous death" and "lack of medicines." People in the displaced community were often more concerned about food and materials.

"Since we have returned from Congo we have had no proper food, nothing to cover the children, no cooking materials, no proper shelter, nothing to dress in so we are ashamed to meet people, and no salt or washing powder." (Group discussion; displaced women.)

When people were specifically asked, however, to list common diseases aspects of reproductive health were spontaneously included by both settled and internally displaced populations. Those mentioned were sexually transmitted diseases, miscarriages, problems in childbirth, and infertility.

# Paucity of supplies and numerous barriers to accessing services

Communities complained about a lack of medical supplies.

"Sometimes people go to the hospital for treatment but the medicine will not be there until you die." (Group discussion; settled men, and a health provider agreed.) "Every trained midwife gets a delivery kit and this needs replacing but this does not happen." (Key informant; health service provider.)

Reported barriers to accessing services were: difficulties in obtaining transport; a reluctance to admit to sexually transmitted infections; traditional beliefs; and conflicting demands on women. The following information was given in response to a scenario.

"In most cases women are shy [to go for treatment for sexually transmitted diseases] and don't go to the hospital unless the man also gets the disease. She will just stay with it." (Group discussion; displaced men.)

### Discussion

Pottier described the lack of knowledge that providers have about refugee perspectives as having two main costs—namely, that a professional service is not carried out to the best of one's ability and that there is a reduction in refugee confidence in humanitarian agencies and their workers.<sup>26</sup> Currently agencies are struggling to decide what reproductive health services should be provided in the context of conflicts, but little attention has been paid to the views of the communities themselves. The link between including men and women in assessing the needs of communities and a resulting increase in the quality of services has previously been noted.<sup>27</sup>

#### Advantages of community participation

In this assessment of need several important potential benefits resulted from including the community, which have implications for humanitarian aid in general.

Firstly, the methods resulted in insights about the perceptions, values, and priorities of members of the community. The limitations of many assessments, based as they are on consulting with leaders (often older men) and service providers were overcome.

Secondly, group discussions were held with groups of different age and sex, allowing the exploration of the relative importance paid to various aspects of reproductive health by these different groups. The additional information from the community highlighted problems that affected particular groups and also uncovered new concerns, such as abortion.

Thirdly, information was obtained about traditional beliefs and other attitudes that decreased use of health services.

Fourthly, participation of the community in the data collection increased awareness of the issues among members of the community and some spontaneous ideas for solutions. For example, debates started about how to provide information about sexually transmitted diseases, and church leaders suggested that this information could be provided at church services.

The study benefited from the cooperation of key local figures, including representatives of local women's associations and a respected Sudanese Oxfam worker, who translated at most discussions and interviews. Qualitative information was supplemented where possible by quantitative data. Such supplementation to findings of rapid appraisal can and did strengthen the results.

#### Key messages

- Community members are not routinely involved in assessing their needs or identifying priorities for humanitarian aid
- Reproductive health needs were important to this population affected by conflict
- Community leaders and health service providers will not necessarily hold the same view of need as community members
- People of different age, sex, and circumstance are likely to perceive community needs differently
- Rapid appraisal may be a useful tool to involve communities living in these contexts to identify their needs and priorities

#### Limitations of study

The study had several limitations. Firstly, information was being sought specifically on reproductive health, and therefore a bias may have existed to find positive data about these issues. Secondly, the study could not be described as truly participatory as local people did not take part in planning the study, analysing, or presenting the results. A design effect may have occurred as the women selected for in-depth interviews were living in close proximity to each other. Only one researcher participated in analysing the data because of resource limitations, possibly biasing the results. The time scale of this type of study is rarely as rapid as the name suggests. The full results in this case were available about three months after the work was started. A less rigorous but nevertheless valid overview, however, was quickly obtained during the process of the systematic gathering of information.

#### Conclusion

Preliminary results were fed back to the communities during the study. Changes in local implementation as a result of the study were limited as a result of a diversion of aid into neighbouring parts of Sudan because of famine. The study did, however, affect the planning of more recent programmes, which are being extended to provide an element of reproductive health care. The type and depth of information obtained through this study suggest that rapid appraisal could be useful as a first step in including communities in assessing needs and planning the provision of services. Further research is needed into barriers that agencies face, in order to ensure that consultation with communities can become a routine part of needs assessment and the planning of service provision in relief contexts.

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# *Endpiece* Next best thing

When W H Auden once found him playing that game [patience] and asked him why he seemed to relish it, he reflected gravely and then replied, "Well, I suppose it's the nearest thing to being dead."

Peter Ackroyd, T S Eliot, Penguin, 1993