

# Creating demand for cataract services: a Cambodian case study



about this programme.

The programme is self-sustaining. The bulk purchase of spectacles for presbyopia from a regional marketplace reduces costs. Spectacles can then be provided to patients at cost or cost-plus. Some programmes reward CEH promoters with a small stipend from the sales.

## Three days in the mountains: an example

There is no central database recording blindness prevention efforts in the villages of Southern Mexico, but a look at the experience of one team in Oaxaca indicates the effectiveness of CEH promoters. A team of six people worked in a group of villages for three days. None of them were health workers but all had participated in a three-day community eye health training. Two days were needed to travel to the villages. As a result of the three days spent by the CEH promoters in the mountains:

- 384 people over the age of 35 years received an eye examination
- 170 pairs of spectacles for presbyopia were distributed
- 43 people were referred to the ophthalmologist. The vision of those referred was:
 

20/100	30 eyes
20/200	24 eyes
20/400	18 eyes

The diagnoses of the people referred was cataract (17 eyes), pterygium, referred when the pterygium is at the border of the pupil (6 eyes), refractive error and/or other disease (20 patients).

Clearly, the promoters were able to address significant unmet needs.

## Conclusion

The challenge to reach those most in need of eye services in regions that are geographically remote and culturally diverse, can be met by persons who already live or work in these communities. With brief but appropriate training, they become enthusiastic partners in blindness prevention. Most CEH promoters 'piggy-back' this work onto their other routines so that eye care is integrated with other health and development issues. Providing spectacles for near vision, something that people need, and which enhances their lives, helps to build trust and confidence in other eye care services and greatly increases the effectiveness of blindness prevention programmes.

Joseph Michon



**Supplying spectacles for sewing. MEXICO**



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## Background

Following decades of civil disturbance in Cambodia, by the early 1990s there were few doctors remaining in the country, and little in the way of eye care services.

With NGO support, training centres were established to train medical graduates and nurses as 'basic eye doctors' and 'basic eye nurses'. These workers were then placed in provincial eye units to serve the eye care needs of those provinces. However, it soon became clear that, despite evidence that blindness, including cataract blindness, was prevalent, patients were not attending these provincial eye units. Attention was therefore given to finding out more about the barriers preventing patients benefiting from these services.

## Key barriers to access to cataract surgical services

### Poverty

This is an underlying factor, one survey having rated over 90 per cent of the referred patients as 'poor' or 'very poor'. Even when the actual operation is free, the associated costs of transport and food, when patients are away from home, are often too much for patients to afford. Many will simply not consider seeking services, assuming such services will be beyond their means. Poverty interconnects with other barriers, such as the lack of someone to accompany and care for the patient while in hospital. A caretaker would need to take time away from their work; for many poor people, this could have a significant impact on the family income and contribute further to household impoverishment. In rural economies, potential caretakers can often not afford to spend a day away, particularly during harvesting season.

### Attitudes towards expenditure on the elderly

Linked to poverty, are the attitudes to spending scarce resources on the elderly. We found that children, and the patients themselves, do not perceive the need or value in spending resources on medical care of the elderly patients.

### Fear

This includes the direct fear of having a poor outcome from the operation, and a less rational fear of the whole concept of surgery and hospitals.

### Lack of knowledge

Lack of knowledge has to some extent been



Sith Sam Ath

**Patients waiting at the provincial eye unit of Kampong Thom, while nurse Mr Ty Seiha tests vision. CAMBODIA**

addressed through efforts to educate the population about the availability and quality of eye care services. However, lack of a clear understanding of the nature of cataract, and of the possibility of treating it, is often still found to be a barrier to uptake of surgical services.

### Lack of trust in local medical personnel

In some communities there is a prevailing attitude of mistrust of locally trained surgeons, combined with the feeling that foreign doctors are better. This is compounded when a foreign surgical team arrives (often unannounced) and does free surgery, undermining the good work and trust being built up by the local eye doctor.

## Some approaches to overcoming the barriers

The National Programme for Eye Health (NPEH), eye units working with NPEH initiatives or with NGO support, and individual eye doctors in Cambodia, have attempted a range of approaches to overcome these barriers. These are briefly described below.

**Outreach screening activities** for cataract or other causes of blindness extend the reach of provincial or district eye unit to the surrounding community. The doctor, supported by the unit eye nurses, or the nurses themselves, usually provide the outreach screening. This is a key method for promoting the uptake of cataract surgery. It provides an opportunity for community education in eye disease and the options for eye care, as well as the actual screening process. However, our experience tells us that providing an outreach screening service does not entirely overcome the barriers to uptake.

We find that of those referred to the eye unit at outreach screenings, only around

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**Ms Yang Samphors, a village health volunteer, examines a woman during outreach screening in Kampong Chhnang Province. CAMBODIA**

Sith Sam Ath



**Patients are registered during the outreach screening at Vien Health Centre. CAMBODIA**

40 to 50 per cent actually attend for surgery. The reasons for this appear to be similar to the key barriers described above. While outreach screening can result in a disappointing proportion of referred patients attending for surgery, it provides the opportunity to address some of the problems at their source. These activities help to create understanding about the nature of curable blindness, address concerns about cost and the need for caretakers to accompany patients to hospital, and dispel fear of the operation. The outreach screening is a good forum for addressing people's concerns, although it is important to ensure that there are enough resources available to give this the time it needs during a busy outreach session.

**Financial subsidy for surgery** (and often for other associated costs such as transport and food) is necessary to obtain a good 'yield' of referred patients. In many people's minds, there is a link between eye camps run in collaboration with an NGO and the opportunity for free surgery. Free surgery might also be provided in the context of World Sight Day or other advertised periods.

Hospitals often have a degree of flexibility in fees charged as part of a cost recovery system, and they often work in co-operation with the eye unit staff or community rehabilitation bodies in administering this.

**Training village health volunteers** in primary eye care and screening for cataract facilitates the screening process. In one case, the Chief of Training of the hospital has taken on the role of teaching the village volunteers and conducting outreach screening with them. In another case, the eye unit returns

a subsidy of one dollar to the village volunteers for each cataract patient referred. **Involvement of satisfied patients** has also been tried. One doctor makes it a practice to have a person in the screening area who has had successful cataract surgery; the satisfied patient can then explain the process and encourage others to have the operation.

**Reducing the fear of the cataract operation**

As mentioned earlier, one approach to reducing fear is to allow enough time and resources during outreach activities for discussion with people. In any communications about cataract, the words used can make a difference. For example, one unit has found that words such as 'surgery' and 'hospital' create fear, while words like 'remove the cataract' create more confidence.

One well-established way to reduce patients' fear of surgery is the use of 'ambassadors'. These are people who have had successful cataract surgery. They are urged to talk to people who are blind when they return home and to encourage others to receive the same benefits as they have.

One doctor takes this one step further by telling patients, after a successful first eye, that he will only do the second eye if the patient brings another cataract patient along with him!

Establishing a personal relationship of trust is the key to reducing fear of surgery in the patients. All this knowledge and information will be of little value if the patient does not understand or trust the medical staff.

**Overcoming the barrier of the lack of a caretaker** to accompany the patient to hospital requires consideration. Two creative ways to help with this have been:

- arranging for several people to come to the surgical unit together, sharing a relative or a village neighbour as a caretaker
- when a person is in hospital without someone to care for them, the hospital social services or the NGO can arrange for someone to be the caretaker.

The NPEH contributes directly to **improving community knowledge of eye health and available services** by:

- broadcasting on radio/TV spots in the whole country
- distributing posters and leaflets about eye diseases to eye units and health centres
- advertising through the medium of TV, based on interviews with ophthalmologists
- using screening camps to increase knowledge of eye care.

**Conclusion**

Barriers to the use of cataract services will only be removed with time, community education, and reduced poverty. In the meantime, quality medical care, delivered in a way that is sensitive to the needs of the patients, and returning good outcomes to the community, will form the basis of better uptake of cataract surgery in the future.

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**Increasing an existing**



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**Background**

Community-directed treatment with ivermectin (CDTI) is the main strategy of the African Programme for Onchocerciasis Control (APOC). It has enabled the programme to reach remote and underserved communities where onchocerciasis is endemic. With CDTI, the community is involved in key decisions about how the drug is distributed and selects the distributor. In this way, a relationship of trust is established between provider and beneficiary. This provides an entry point for expanding activities dedicated to the prevention of blindness.

Christian Blind Mission International (CBMI) began working with the government of Nigeria in 1995 on their onchocerciasis programme. In 2003, this collaboration was broadened to address the prevention of blindness. The structure provided a way to reach the people living far from eye care facilities (in many states, these facilities exist only in the urban centres). In addition to strengthening the eye care services, efforts were made to create awareness and a demand for cataract services amongst rural dwellers. The programme described in this article aims to organise outreach programmes in northern Nigeria and falls within the authority of the Ministries of Health of the states of Kano, Jigawa, Yobe, Taraba, and the Federal capital territory, Abuja.

**Outreach centres and services provided**

In each state, at least one outreach activity is held every year. Each state chooses a suitable site to reach as many people as possible.

In 2004, a total of 632 eyes with blinding cataract were operated; this figure increased to 768 in 2005. In 2006, between January and July, 1,920 eyes with blinding cataract have been operated. In all these cases, an IOL was inserted.

During these outreach camps, trained

**Figure 1. Map showing the states where CBMI works with the Ministries of Health**

