that the trends shown by the Demographic and Health Survey are correct, that Nepal has really achieved a lot in the health and family planning sector over the years despite all the problems that the country has been facing, and that the trends are in the right direction.

Credit is due in part, she says, to the massive public awareness of health issues created by information and communication campaigns, launched by the government and other health-related agencies, through the national radio network, regional community broadcasting and local FM stations, television as well as traditional and non-traditional channels of communication. Nepal is considered a leader in community broadcasting and FM networks in South Asia, she said.

"But there are still strong cultural taboos. The results would have been better if all those women and children who wanted to take advantage of the health services could really travel freely from their homes to the health centres," added Ms Manandhar.

Prakash Khanal, Kathmandu

Africa's largest measles vaccination campaign could reduce childhood mortality by 20%

After years of declining immunization rates, a nationwide measles vaccination campaign in Kenya, the largest ever to be undertaken in Africa, was judged "very successful" by Minister of Public Health Sam Ongeri. "From a target

population of 13.6 million the number immunized was 13.3 million, a record coverage of 98%" he said. In the year 2000 coverage was just 60%.

Rudi Eggers, WHO Inter-Country Epidemiologist for Eastern Africa, told the Bulletin that "more than 85%coverage is needed to protect against a measles epidemic. We need to have a herd immunity effect". In other words, the few unimmunized people need to be far enough apart so that transmission cannot continue. "For measles this is quite a big task, as this is quite an infectious disease. So you actually need to reach very high coverage - 98% or so - to get that herd immunity. It seems that Kenya has reached that figure. We did a coverage survey after the campaign, to get some independent verification of that data" said Eggers.

The biggest remaining uncertainty, however, is not the number vaccinated but the census — how many people there actually are in the country. And mopping up now needs to be done in areas that did not reach the target level.

Measles in Kenya is still a severe disease. Some 10% of cases develop complications including convulsions, inner ear infections, pneumonia, diarrhoea and inflammation of the brain. "Survivors are often left with lifelong disabilities including blindness and brain damage" said Ongeri. Yet over the last three years, Kenya had seen a fall in measles immunization coverage. It was estimated that 18 000 children were dying each year from measles in Kenya. Directly and indirectly, measles was

contributing 20% of the mortality rate in children under five years of age.

Nicholas Alipui, the UNICEF country representative, said that with the success of the campaign in Kenya, doors were opening for other African countries to undertake similar campaigns. "Measles has been and continues to be a highly contagious infectious disease throughout the world" said Alipuli. "UNICEF continues to stand behind the Ministry of Health, to use resources accrued from this campaign to strengthen routine vaccination in private and public health facilities." With a concerted effort, he said, it would be possible for Kenya to have no measles deaths in a few years.

The Kenyan Minstry of Health organized the vaccinations and ran this campaign, while WHO and UNICEF gave in-country support. The main funders were the US Centers for Disease Control, the UN Foundation and the American Red Cross. Eggers added, "A group called the Measles Initiative has solidified around those three funders, and now has US\$ 20 million in the kitty to do more campaigns. We are planning for all of East Africa to be doing similar campaigns in due course".

Catherine Wanyama, Nairobi

Reflectors could reduce road deaths ninefold, says Global Forum for Health Research

4500 secondary school pupils in Arusha, United Republic of Tanzania, a small tourist town in sight of Mounts Meru and Kilimanjaro, are to receive 5 cm-square plastic yellow reflectors to tie on their arms or pin on the backs of their clothes. These will help reduce accidents in which they are injured or killed by walking on the roads in the dark.

The independent Global Forum for Health Research, which works to increase research on developing country issues, bought the US 60-cent reflectors "as a gesture" from the Danish makers "C you" — to coincide with Forum's annual meeting in Arusha this November. "The children will get two reflectors each, one themselves and one for a sibling," said a Forum spokesman.

The Forum will seek investigators, and funding, to study their effect on deaths and injuries. In Denmark, studies have shown that reflectors reduce users' risk of fatal accidents ninefold, according to the Forum but their effects in developing country situations is unknown.



While Kenya decided to vaccinate all age groups simultaneously, other countries such as the United Republic of Tanzania — here illustrated — chose to spread the vaccinations over two or three years. Kilosa district, Ruaha Catholic Clinic