Making progress

Diarrhoea remains a major cause of ill health and death in developing countries — especially among children. Much of this suffering is preventable and substantial progress has been made since the World Health Organization set up its Control of Diarrhoea Diseases Programme in 1978 (see pages four and five).

ORT: greater commitment required

The life-saving value of ORT is increasingly accepted around the world. However, packets of oral rehydration salts (ORS) and simple instructions for their use are still not reaching many communities where diarrhoea is worst. Also, some medical leaders are not yet committed to ORT (see page eight, letter from Trinidad). Support from all health care professionals is crucial if ORT is to have the impact it deserves on child mortality.

Water and sanitation

Oral rehydration prevents death from dehydration due to diarrhoea. It cannot stop the transmission of diarrhoeal infections. Protective vaccines are being developed but will take time to perfect. There are also constraints to overcome in their delivery (see Diarrhoea Dialogue issues 14 and 16). Improvements in water supplies and sanitation come slowly and can be costly. Progress in a UNICEF-supported water programme in Nigeria is described on page three and shows how community involvement from the start is essential for success. News from the Solomon Islands (see page two) confirms this conclusion. Latrine developments in Zimbabwe emphasize the value of a realistic approach to sanitation systems (see page seven).

Other interventions

Other important ways exist to diminish the spread and the harmful effects of diarrhoea — immunization against measles, promotion of breastfeeding and the encouragement of handwashing and personal hygiene (see Diarrhoea Dialogue issues 16 and 17 and page two in this issue). All require well designed educational programmes which are appropriate to local circumstances and resources. The practical advice page in this issue tells how people can make their own soap from simple ingredients.

Importance of evaluation

Evaluation of all interventions is essential. The first issue of Diarrhoea Dialogue in 1985 will concentrate on 'operational research.' Simple observations and experiments can be undertaken by health workers and their communities (see page two) to find out when, where, why and how much progress is being made — and how progress may be speeded up!

In this issue . . . .

- A review of the WHO Diarrhoeal Disease Control Programme
- Duncan Mara looks at low-cost latrines — the latest developments
- Practical advice — how to make soap

Diarrhoea Dialogue, issue 18, August 1984. Published quarterly by AHRTAG, 85 Marylebone High Street, London W1M 3DE.
Solomon Islands’ success

The Solomon Islands look set to mark the end of the International Drinking Water Supply and Sanitation Decade in 1990, by becoming one of the first developing countries to provide access to safe drinking water for its entire population, estimated at 250,000. Two main factors have contributed to this imminent success. Firstly, community participation (communities have been involved in all stages of the development process and have also been trained to maintain and repair their own water systems). Secondly, technologies that are both appropriate and affordable, such as bamboo-reinforced water tanks, have been used and the water supply systems have been introduced on a small scale, to match local needs.


Water and sanitation: health impact?

A meeting was held at Cox’s Bazaar, Bangladesh, in November 1983 to discuss the best way of assessing the achievements of water and sanitation programmes. Such programmes are implemented in the widely held belief that automatic improvements in health will result, but this is not always the case. High expectations often come from the policymakers, donors or governments investing in the programme, who want to see concrete results. On a large scale, such programmes are extremely expensive. Another important factor is the time-lapse which occurs before any improvements can be seen. Benefits such as reduction in disease and improvements in nutritional status often only appear gradually. With these factors in mind the Teknaf discussions centred on the following subjects:

- what indices should be used to measure improvements, for example, the incidence of diarrhoea, worms, eye and skin diseases or nutritional status, all of which may be influenced by other factors?
- within what timescale should the study be carried out?
- what are the best ways of interpreting the findings and of communicating and implementing the recommendations and conclusions drawn from these findings?

Findings

It was suggested that using nutritional status as an indicator of improvements in health would be more useful than using the incidence of diarrhoea. Participants gave evidence to show that improved water supply does not necessarily reduce the incidence of diarrhoea. Instead, it affects the type of pathogens causing the diarrhoea, and hence the type of diarrhoea. Diarrhoeal incidence and duration are very hard to measure accurately, depending largely on memory, whereas nutritional status is easier to measure and also reflects diarrhoeal incidence and duration.

Less direct but important health benefits may result from water improvements, if mothers no longer have to spend several hours each day fetching water. Nutrition could improve if mothers had more time and energy for growing crops, cooking, and looking after their children, including breastfeeding.

The participants concluded that the best time to evaluate a programme is from one to three years after the project has started. This gives enough time for the work to have an impact, but is soon enough to minimize the effects of other factors which can influence the results.

Another important finding discussed was that improvements in health seem to be directly related to the amount of water used — for example, in St Lucia, this was the single most important factor, and the amount of water used was inversely related to the numbers of childhood illnesses.

Based on material presented in *Glimpse* Vol 6 No. 2 March/April 1984.

Handwashing helps

Diarrhoea is usually caused by faecal-oral transmission of germs. It is difficult to avoid this in dirty and contaminated situations. Simple personal hygiene, especially hand-washing after using the toilet and before preparing or eating food, can reduce the rate of diarrhoea attacks. This has been shown independently in several studies from as far apart as Guatemala, Bangladesh and the USA where attack rates were reduced by between 14 and 48 per cent (Feachem 1984).

At least two steps are required to achieve such an improvement: education about the hygiene measures required to reduce transmission, and a change in the pattern of behaviour. Economic constraints and cultural barriers prevent this in many communities. There is also a need to identify the most important protective actions and the most appropriate messages in any group. However, these limitations should not stop everyone practising and preaching the value of handwashing in preventing diarrhoea.


WHO water checklist

A recent WHO publication, *Rural water supply: operation and maintenance — eight questions to ask*, is intended to be a guide for planners and engineers involved in rural water supply projects. The eight questions consider such factors as site conditions; socio-economic conditions; project planning and development; the influence of resource availability outside the community; system management; manpower development and training and on-site resource availability. The publication (reference ETS/83.9) is available in English and French (shortly to be available in Spanish) from WHO, 1211 Geneva 27, Switzerland.

In the next issue . . .

We will concentrate on oral rehydration therapy (ORT). Although ORT has already saved thousands of lives, it is still not reaching all those who need it — DD19 looks at how ORT is being promoted and at research into an improved ORS formula.

2 Diarrhoea Dialogue, issue 18, August 1984. Published quarterly by AHRTAG, 85 Marylebone High Street, London W1M 3DE.
A successful UNICEF-assisted project in Imo State began health and hygiene education long before water supplies were actually installed.

The UN Water Decade aims to provide 'Clean Water for All by the Year 1990'. Through this it hopes to reduce illness caused by inadequate water and sanitation facilities. Evaluations have shown that better health does not automatically result from improvements in water supplies and sanitation. One project which may provide data about the impact of such changes on health is a UNICEF-assisted programme in Imo State, Nigeria, begun in late 1981.

The most important aspect of this particular programme is the emphasis on health and hygiene education, to try to change water use and excreta disposal practices so that the people gain the maximum health benefit from the project. Many previous projects have not led to improvements in health because the educational component has been introduced as an 'afterthought' once the new facilities have been established.

**Sequence of events**

In each local government area, such as Ohaozara in North-eastern Imo State, the programme is initiated in overlapping stages. First, the community mobilisation team meets with government officials, community leaders and villagers to explore village needs, explain the project and its aims and foster a spirit of local ownership in the project. Next, each village chooses four village-based workers (VBWs) who undergo a four week training programme under the direction of the training team. Meanwhile the sanitation team has the task of assisting villagers in building ventilated improved pit latrines. All this happens before drilling of boreholes for water is even begun — the community is persuaded to alter existing habits and becomes aware of preventative health measures before the arrival of new water supply. In five villages in Ohaozara local government area, the activities of an evaluation team have preceded all other activities by one year. The team collects data at regular intervals to allow evaluation of the project's impact on the health of young children. An important aim of this evaluation is to collect information on diarrhoea incidence and aetiology. A simpler evaluative procedure to monitor the functioning and use of facilities rather than health impact has been developed and is being introduced into a sample of project villages.

An important characteristic of the five project teams — mobilisation, evaluation, training, sanitation and drilling and pump installation — is that they are seconded from six state government ministries and include a variety of personnel ranging from sanitarians and health educators to social statisticians. Overall coordination of the teams and the pace at which they work is carefully handled so that the balance of village life is not unduly disturbed.

**Hygiene education and community involvement**

At village level the VBWs have responsibility for the hygiene education component of the project — for example, promoting proper water use habits and excreta disposal practices. The VBWs, usually two men and two women, are selected by their fellow villagers and must fulfil certain criteria. They must be established members of the community, married (preferably with children) and able to read and write to a minimum standard. A steering committee is formed in each village, consisting of respected members of the community. This committee supports VBWs and organizes VBW payment. Convincing fellow villagers to change their hygiene habits is not always easy. Strong support from the steering committee is necessary to give the VBWs authority in the eyes of the villagers. Enthusiastic community involvement is also necessary to raise funds and organize the building of latrines.

**Programme results**

The success of the programme depends to a great extent on the continued commitment of the state and local governments, individual communities and on the educational activities of the VBWs. Although it will be some time before the results of the health impact evaluation are known, important accomplishments are already evident. The Imo State project is now serving 370,000 people or some 8-9 per cent of rural Imo State at a low per capita cost. The Imo State government is committed to extend the project throughout the state and the federal government has agreed to introduce the project model in at least five other states. The project is already underway in two of these states with encouraging results. In Gongola state in particular, community mobilisation has led to striking transformations in project villages and fostered a spirit of community self-improvement. For example, environmental sanitation campaigns and tree and flower planting activities have accompanied the project activities.

Finally, in participatory states and local government areas the project has established an infrastructure to undertake other primary health activities. It is no surprise that project areas have been particularly chosen as starting points for the national Expanded Programme on Immunization (EPI), nor that the Imo Project has been recommended by the Nigerian Council on Health as an example of primary health care to be visited by delegations from all other states.

Deborah Blum, London School of Hygiene and Tropical Medicine, Keppel Street, London WC1E 7HT. Information also taken from Issue 116, UNICEF News.
Strengthening national initiatives

Reducing childhood illness and death due to diarrhoea is a major priority for WHO. We report on its achievements in this area since 1978.

The WHO Programme for the Control of Diarrhoeal Disease (CDD) was set up with the formidable task of assisting WHO member countries to reduce the high levels of illness and death especially in children under five — due to diarrhoeal diseases. The CDD Programme has a health services component and a research component. Information about Programme activities is circulated through a mailing list of 5,000 and through publications such as *Diarrhoea Dialogue*. CDD works closely with a number of other agencies, including UNICEF and the League of Red Cross and Red Crescent Societies, in the promotion of oral rehydration therapy (ORT) around the world. UNICEF and WHO recently published a joint statement on the management of diarrhoea and use of ORT.

**Health services component**

By the end of 1983, seventy two countries had received assistance from CDD in planning national diarrhoeal disease control programmes. Of these, 52 countries are now implementing plans. Emphasis is put on sound programme planning; the training of health workers at all levels, local production and development of oral rehydration salts (ORS); and evaluation of programme activities. The major strategy of all the national diarrhoeal disease control programmes is proper case management of acute diarrhoea with oral rehydration therapy, emphasizing both the treatment of dehydration by use of ORS throughout the health system and prevention of dehydration through treatment and use of appropriate home-made solutions.

**Training:** The training of national CDD programme managers and others involved in diarrhoeal disease control work continues to be a priority. In 1983, five training courses for programme managers took place, attended by 170 people from 50 countries. Since this particular course began, 677 people from 117 countries have been trained. In 1983, a new course was launched in nine countries, aimed at first line supervisors in the health system. The course deals not only with diarrhoeal disease control but also looks at other primary health care interventions. So far, 410 people have attended the courses, coming from 14 countries, and, in Thailand and Indonesia, the course material has been translated for national use.

The same material is being used by UNICEF training workshops; also in combined courses between CDD and the WHO Expanded Programme on Immunization (EPI) to strengthen curricula of nursing schools, the first being held in Egypt. Recognizing the importance of training peripheral health workers in the use of ORT, CDD recommends that such training courses should use nationally prepared materials based on the treatment and training sections of the supervisory skills course. Technical training activities also continue in clinical management; laboratory diagnosis; epidemiology and environmental health. Priority is given to the clinical management courses for physicians and other senior level workers. As part of the effort 37 regional and national CDD training units have been established.

**ORS production:** An essential part of national programmes is the availability of sufficient ORS packets. CDD continues to work closely with UNICEF on the production and distribution of packets. Thirty-eight developing countries are now producing their own ORS. In 1983, UNICEF distributed 29 million packets to 78 countries, and other bilateral agencies also provided packets through their own aid programmes. Commercial, national and multinational companies have been encouraged to increase their production of ORS. Important studies have been carried out during 1983 on the substitution of sodium bicarbonate in the ORS formula. Laboratory and clinical studies have shown that not only is the new formula more stable in tropical conditions but also results in some 20 per cent less stool output. This is because there is increased intestinal absorption of sodium with citrate as compared with bicarbonate. The citrate formula is also cheaper to pack. (Issue 19 of *Diarrhoea Dialogue* to be published in November 1984 will carry a full report on the citrate formula).

**Evaluation:** Increasing emphasis has been put on developing CDD programme capability to evaluate access to and use of ORS in children under five; impact of ORT in hospitals; and morbidity and mortality due to diarrhoea. Information on all these subjects is essential to improve the planning and development of national diarrhoeal disease control programmes. Guidelines have also been developed to assess the cost-effectiveness of ORT at country level and these are being tested in Indonesia and Honduras. An evaluation procedure has been developed with the Environmental Health Division of WHO to assess the operation and use of water supply and sanitation facilities.
Convincing doctors: management of diarrhoea using ORT in Bangladesh

Research component

Biomedical: The biomedical research component of the CDD Programme has made important advances during the past year on many fronts from studies into more effective ORS to clinical trials for typhoid and rotavirus vaccines. CDD is now supporting 147 biomedical research projects — 46 per cent of which are in developing countries. Research areas include diagnostic microbiology, including simplified tests which can be used at the periphery (see Diarrhoea Dialogue issue 9); immunology and vaccine development, particularly in relation to typhoid fever and rotavirus infections (see Diarrhoea Dialogue issue 16); drug development and the management of acute diarrhoea.

In the latter category, as well as the research into the citrate ORS formula described above, CDD has actively pursued the development of even more effective ORS formulations — both home-based and in packets. Studies have shown that a rice-based solution can reduce diarrhoea output by up to 50 per cent. Trials are now being carried out to see whether similar food-based solutions can be made from dal or maize. Unfortunately, the first indications are that at least some of these solutions seem to ferment rapidly, which may restrict their usefulness. Alternative methods of enriching ORT solutions are being explored. Work has continued in the evaluation of traditional drugs for diarrhoea in countries such as Bangladesh, China and Madagascar. Studies are also underway to examine the absorption of different foods during and after diarrhoea. Information on these approaches should be available at the end of 1984.

Operational research: Eighty-four operational research projects have now been supported by the CDD Programme, the majority of them looking into aetiology/epidemiology or case management of acute diarrhoea, especially the delivery of ORT in local settings.

Overall, research activities have been strengthened by CDD assistance to various institutions in developing countries for training purposes. One important development has been the collaboration with Mahidol University and the Ministry of Health in Thailand in the preparation of a proposal for setting up a Centre for the Trial of Vaccines against Infectious Diseases at Mahidol University.

Research priorities in the area of chronic diarrhoea have now been established and it is hoped to begin supporting research in this key area next year. Other new research projects will include activities related to the additional diarrhoeal disease control interventions of breastfeeding; use of clean water and sanitation; handwashing; and measles immunization.

More information on all the Programme activities described above is available from the Director, Programme for the Control of Diarrhoeal Diseases, WHO, 1211 Geneva 27, Switzerland.

Practical advice series

How to make soap

This article shows how soap can be made cheaply and easily on a small scale, in the home or village, using locally available ingredients.

Soap is a very great help to people in being able to keep themselves and their surroundings clean, and is therefore important in preventing the spread of disease. In some countries soap is unavailable or very expensive. The table below shows the ingredients necessary to make soap.

### Basic ingredients

**For one bar of soap you will need:**

- 230 ml (1 cup) of oil or clean, hard fat.
- 115 ml (1/3 cup) of water.
- 23.5 gms (5 teaspoons) of caustic soda (sodium hydroxide) crystals or lye.
- Borax and a few drops of perfume are optional.

**For 4 kg of soap you will need:**

- 3 litres/2.75 kg (13 cups) of oil or clean, hard fat.
- 1.2 litres (5 cups) of water.
- 370 gms of caustic soda (sodium hydroxide) crystals or lye

### Equipment

**To make soap you will need:**

- Two large bowls or buckets made from iron, clay, enamel or plastic. Never use aluminium, it is destroyed by lye/caustic soda.
- Measuring cups made from any of the same materials as above, again except for aluminium.
- Wooden or enamel spoons, or smooth sticks for stirring.
- Watertight wooden, plastic, cardboard or waxed containers for a mould; gourds, coconut shells or split bamboo halves can also be used.
- Cloth or waxed paper can be used to line the moulds so that the soap can be easily removed.

### Method

- **Dissolve caustic soda in water to produce lye water.**
- **Pour oil into separate container (add borax at this point if desired).**
- **Pour the lye water slowly onto the oil, stirring continuously in one direction.** If an oil-fat combination is used add the melted and cooled fat to the oil/lye solution.
- **Different proportions of ingredients produce different types of soap:** for hard scrubbing soap use tallow for the fat quota; for laundry soap use 1/2 lard/cooking fat with 1/2 tallow; for toilet soap use 1/2 tallow with 1/2 vegetable oil.

### How to recognise good soap

Good soap should be hard, white, clean-smelling, tasteless and should, if used should be resistant to alkali. For 4 kg of soap one of the following should be used: 4 teaspoons of oil of sassafras; 2 teaspoons of oil of wintergreen, citronella or lavender; or 1 teaspoon of oil of cloves or lemon.

### How to reclaim soap

To reclaim soap:

- Cut into small pieces and add to five pints of water.
- Melt over a low heat.
- Boil the mixture until it becomes syrupy.
- Pour into a mould and leave for two days before cutting up as before.

### WARNING

Caustic soda is very dangerous and can burn skin and eyes. Protective gloves should be worn if possible when making soap. If burns occur they should be washed immediately with cold water and then treated with vinegar or citrus juice. Never add water to caustic soda—always add the soda to the water.

For further reading, please write to AHRTAG, 85 Marylebone High Street, London W1M 3DE.
Major health benefits

On-site sanitation

Duncan Mara describes some recent developments in the design of VIP latrines and pour-flush toilets

On-site sanitation systems can provide major health benefits at a fraction of the cost of sewerage. They do not depend on piped sewerage or regular emptying methods of sanitation that will never reach the vast majority of people in developing countries. The Technology Advisory Group (TAG) of the World Bank/UNDP has published information on the designs of ventilated improved pit (VIP) latrines and pour-flush (PF) toilets, which have been developed in Botswana, Brazil, India, Tanzania and Zimbabwe. Two general design manuals will shortly be published. Issue 5 of Diarrhoea Dialogue described twin-pit VIP latrines and PF toilets. This review highlights some of the developments that have taken place since then.

VIP latrines

The most significant developments in VIP latrine design have come from Zimbabwe. Latrines for rural areas can cost as little as US $10, since local materials — freely available in the bush — are used extensively. The rectangular pit (1.5m x 0.6m x 3m) of the low cost rural VIP latrine has a rough timber cover-slab, over which a spiral, doorless superstructure is built in mud and wattle. The roof is thatched and the vent pipe is made from a mat of reeds (wattle). The roof is thatched and the vent pipe is made from a mat of reeds (wattle). The only materials the householder has to buy are the flyscreen, a bag of cement (to render the outside of the superstructure and vent pipe) and some nails and tie-wire. This latrine can last a family of six for over twenty years, although it needs regular annual maintenance work by the Institute of Technological Research in Sao Paulo, three major manufacturers are now producing low-volume flush toilets which can be initially operated in the pour-flush mode, but which can be upgraded later to operate as low-volume cistern-flush units. The Brazilian models are made in glazed ceramic-ware and, at US $5, are becoming extremely popular in low-income urban slum communities.

Pour-flush toilets

The alternating twin-pit PF latrine design described in Diarrhoea Dialogue, issue 5, is still preferred wherever desludging is done by hand, as in India for example. A single-pit design is more suitable if a vacuum tanker is used to empty the pit, as in Brazil. The most interesting developments in PF toilet design have been concerned with the squat pan or pedestal seat unit. The Swedish company, Ifo Sanitar AB, has developed an add-on unit for the

Indian glass-fibre squat-pan which converts it into a low-volume cistern-flush toilet. Only 1.5 litres of water are needed per flush. The cistern can be any size (15-30 litres) as there is a special valve which releases only 1.5 litres of water when the cistern is operated. This is especially useful where municipal water supplies are intermittent and service is often only provided for 1-2 hours a day, as the cistern can hold enough water for 10-20 flushes. In Brazil, following prototype development work by the Institute of Technological Research in Sao Paulo, three major manufacturers are now producing low-volume flush toilets which can be initially operated in the pour-flush mode, but which can be upgraded later to operate as low-volume cistern-flush units. The Brazilian models are made in glazed ceramic-ware and, at US $5, are becoming extremely popular in low-income urban slum communities.

Duncan Mara, Department of Civil Engineering, University of Leeds, U.K. Technical Advisor TAG (World Bank UNDP)

Further information on TAG’s activities in low-cost sanitation, and copies of the various TAG Technical notes on VIP latrines and PF toilets can be obtained from Richard N Middleton, Project Manager, UNDP INT/81/047, WUDOR, The World Bank, 1818 H St NW, Washington DC 20433, USA.
Sharing problems

I am a nursing sister greatly involved in the care of aboriginal children in the southern area of the Northern Territory of Australia. My work involves follow-ups; guidance to people unfamiliar with the aboriginal ways; rural clinic every two weeks; overall general paediatric care; teaching aboriginal health workers skills to better their people in health ways. I feel it would be of great value for them to read your magazine Diarrhoea Dialogue to let them know that other places have problems too, not just them. Also I feel nursing staff would find it of great value. Would it be possible to obtain regular copies for myself and staff?

Sister Carmel Hatch, Paediatrics Clinical Assistant, Alice Springs Hospital and Rural Area, Northern Territory, Australia.

Breastfeeding during diarrhoea

I would like to congratulate you for packaging so much information in such a concise and lucid manner in Diarrhoea Dialogue issue 17 on breastfeeding. The issue covers different practical aspects of breastfeeding like the establishment and maintenance of lactation, the advantages to mother and infant, storage of breastmilk etc. The pull-out poster was very inspiring. I am sure it will be stimulated to design and utilize similar material in their own place of work.

I would like to stress the importance of continuing breastfeeding during diarrhoea. For one thing it will minimize weight loss due to diarrhoea, but, even more important, it will reduce the number of mothers who switch to breastmilk substitutes after the infant has an episode of diarrhoea. In South India an important reason for switching to breastmilk substitutes and consequent lactation failure is the advice of misinformation health professionals — doctors, nurses and health workers who advise withholding breastmilk for 2–3 days when the infant has diarrhoea. This often breaks the habit as well as the mother's confidence in her own milk. More effort must be directed by all of us towards protecting breastfeeding during diarrhoea.

Dr Kingsley Jehakumar, Paediatrician, Church of South India Mission General Hospital, Woori, Tiruchirapalli-3, South India, 620003.

DD: health education

My name is John A Chermack and I am a Peace Corps Volunteer from the United States working in Honduras. I am a public health educator working in a town of 5,000 people. I also will be working with surrounding pueblos of smaller sizes. I teach health, hygiene and sanitation, nutrition and small vegetable gardening and a variety of health related topics. David Werner in his book 'Helping health workers learn' suggests that your Diarrhoea Dialogue newsletter is excellent. If it is possible I would appreciate being on your mailing list and would also appreciate any other educational materials you might be able to send. Any material in Spanish is of even greater value.

John A Chermack, PVC, Marcala, La Paz, Honduras, Central America.

Editor's note: The Spanish edition of DD is available from PAHO, 525 Twenty-third Street, N.W., Washington D.C. 20037, USA.

Changing doctors' attitudes

The letters from Drs Puranik, Chandari and Nazmy in Diarrhoea Dialogue issue 16 as well as my experience in Trinidad and Tobago, Grenada, St Vincent, St Kitts-Nevis and Venezuela have prompted this letter. I think all health workers involved in managing children with diarrhoea diseases would agree with me that the major problem today, with the treatment of diarrhoea disease, is the attitude of most of the general practitioners. Invariably these doctors overprescribe antibiotics, antibiotics, antidiarrheals, antinemics and antispasmodics for diarrhoea. Invariably an injection is given. Invariably no information on rehydration or nutrition is given. We all know the consequences, both to the children and to the doctors' lifestyles. Why has this not been identified as the major problem? Are we scared of reasoning with our colleagues? Are they not willing to talk over these things with us? What are the best ways to convince them, not only of the benefits of ORT but of many other things, e.g. the misuse of antibiotics, that need to be corrected. Can we not identify the doctors in a country as part of the problem of treating diarrhoea and give this the publicity it needs. Our experience in Trinidad and Tobago suggests that this is a viable option when allied to the more traditional means of reaching the medical practitioner e.g. seminars, letters from the Hospital Consultant to the referring physician. Obviously however a great deal needs to be done to answer these questions.

David Bratt, Paediatrician, Port of Spain, General Hospital, Trinidad, W.I.

Editors' note: DD 16 reported on changing attitudes among paediatricians in the U.K. towards ORT. Hopefully this may encourage a greater acceptance of ORT amongst their colleagues in other countries.

Practical ideas

Please send me six copies in addition to my own copy every month of Diarrhoea Dialogue for distribution to my nurses and clinical officers in the Paediatric diarrhoea ward of Kenyatta National Hospital. I find the publication very informative and filled with practical suggestions and ideas on implementing oral rehydration therapy and nutritional support in diarrhoeal illnesses. Your recent issue on breastfeeding was excellent. Thank you.

Dr Verna Jean Turkish, Lecturer in Paediatrics, Kenyatta National Hospital, P.O. Box 30588, Nairobi, Kenya.