There were 75 individual inquiries comprising 144 recommendations. The travel inquiries were handled in three ways:

i) Standard inquiries — relevant recommended immunisation guidelines for travellers were taken directly from the Commonwealth Serum Laboratory’s (CSL) 1989 Country by Country Guide to International Travel Immunisation. From December, the second edition of the guide was used. These inquiries were dealt with mainly by the Public Health Nurse.

ii) Complex inquiries — these often consisted of multiple African or South American countries, and reference would be made to MASTA — a computerised database of medical information for travellers. The client would be phoned back by the PHU nurse with information which was more detailed but still within the form A format.

iii) Doctor inquiries — these were dealt with by the medical staff and MASTA was used as necessary. Form A plus the relevant MASTA information was sent to the doctor.

**RESULTS**

There were 75 individual inquiries comprising 144 destination countries and encompassing 44 different countries. Fifty-seven per cent of the clients were males and 43 per cent were females. Average age of the clients was 29 years for males and 32 years for females, with a range from less than 1 year to 73 years. There was an uneven distribution of age and gender, with more males than females in all age groups except for the 30-39 age group.

The mean duration of travel was 10 weeks. Most frequent length of stay overseas was three weeks (17.4 per cent), followed closely by four weeks and nine weeks (14.6 per cent and 13.2 per cent respectively).

Hornsby local government area had the most inquiries (15.4 per cent), followed by Blacktown (14.6 per cent) and Parramatta (11.9 per cent). Analysis of the point of inquiry revealed that 61.6 per cent came from residents within the area serviced by the Western Sector PHU, while 16.8 per cent and 14.7 per cent came from the bordering areas of Northern and South Western Area Health Services respectively.

Thailand was the most popular country, accounting for 11.1 per cent of inquiries, followed by India (6.9), and then Brazil, Argentina, Singapore and Malaysia (4.9). South-East Asia was the largest geographical area, with 34.7 per cent of country inquiries to that area.

There was almost total uniformity in the recommendations about the following vaccines: diphtheria, polio, tetanus, yellow fever and malaria prophylaxis. There was poor uniformity in the recommendations for rabies, hepatitis A, hepatitis B, typhoid, cholera, Japanese encephalitis and meningococcal meningitis.

**DISCUSSION**

A number of problems were identified on analysis of the data — principally the difficulty in giving relevant and consistent travel health recommendations over the phone.

The general recommendations we purported to give as they were written in the CSL guide were exactly what the name states: recommendations only, but the import of this was and is very difficult to convey to the travelling public. This was particularly the case with certain vaccine-preventable diseases such as rabies, cholera, meningococcal meningitis, hepatitis A and Japanese encephalitis, where the vaccines were often recommended although this was not always the most appropriate advice.

The inherent limitations of the service were best illustrated by the recommendations to travellers entering countries with endemic rabies. The rabies vaccine was recommended according to the protocol while what was really required was not a vaccination but education about the possible risk of rabies to the individual traveller. Travel health education must cover both precautions and the follow-up emergency actions and seeking of medical advice.

Preventive education for the traveller is also needed to minimise the risk of infection with hepatitis A, cholera, typhoid and other food-borne illnesses. This would include advice on handwashing, water quality and food selection and cooking. In many instances, effective education would obviate the need for vaccines.
The dramatic rise in the number of people travelling overseas has led to special problems with giving advice about the meningococcal and Japanese encephalitis vaccines. CSL recommendations for the two diseases present problems as they do not take into account the type and duration of travel, standard of accommodation, individual itineraries and activities of the traveller. The latter needs to be addressed in a travel health consultation where the balance between the risk of infection and the efficacy, safety and cost of the vaccine can be judged effectively. Japanese encephalitis vaccine is further complicated because the Commonwealth Department of Community Services and Health in Canberra has to approve its use.

It is difficult to define the areas where meningococcal meningitis is present in epidemic proportions and thus provide a comprehensive service. The latter could be addressed by performing weekly updates on all the country inquiries but it would be both too expensive and difficult to implement as the information would require a medical interpretation dependent on a number of factors in the traveller’s trip. This cannot be delivered over the telephone. Instead, the information was designed to inform the member of the public and give standard recommendations which could be used as a guide in consultation with the local doctor.

The dramatic rise in the number of people travelling overseas has resulted in an increase in the numbers receiving vaccines and thus the number of adverse side-effects, which can range from a mild flu-like illness to the more severe Steven Johnson syndrome. It is therefore important that only travellers ‘at risk’ receive appropriate vaccines. Specialised travel clinics and general practice training are needed so uniform advice is given and adverse reactions can be monitored and acted on.

Recommendations for malaria prophylaxis resulted in a number of problems: with standard inquiries, travellers often requested specific information on drugs and dosages. This was most probably because general practitioners were unsure of which antimalarial drugs to prescribe, as was confirmed by the large number who contacted us about appropriate drugs. It was found that few had a copy of the National Health & Medical Research Council’s Malaria Guidelines for General Practitioners. Recommendations for antimalarial prophylaxis were also complicated by the MASTA vaccine can be judged effectively. Japanese encephalitis vaccines. CSL recommendations for the two diseases present problems as they do not take into account the type and duration of travel, standard of accommodation, individual itineraries and activities of the traveller. The latter needs to be addressed in a travel health consultation where the balance between the risk of infection and the efficacy, safety and cost of the vaccine can be judged effectively. Japanese encephalitis vaccine is further complicated because the Commonwealth Department of Community Services and Health in Canberra has to approve its use.

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