worldwide collaboration among various medical journals in which some of these journals are devoting entire issues to this topic. CDC has even started publishing a journal, Emerging Infectious Diseases, to provide peer-reviewed information on emerging microbial pathogens and related issues.

Echoing Ramalingaswami's sentiments—allowing one the luxury of a vision—with further impetus to research on the molecular approaches to the control of the infectious diseases and reinforcement of epidemiological studies, it may be possible to mount a final assault on the conquest of the infectious diseases.

J. S. Virdi
Department of Microbiology,
University of Delhi South Campus,
Benito Juarez Road,
New Delhi 110 021, India

The aroma of Bassia flower

In an earlier publication (Curr. Sci., 1996, 71, 257) it was mentioned that 2-acetyl-1-pyrroline (2AP), the aroma molecule of basmati rice and tiger marking fluid may also occur in the flowers of Bassia latifolia. We have now confirmed this with HPLC. 2AP from fresh flowers was extracted as citrate, eluted by paper chromatography and run in HPLC together with standard 2AP-citrate. 2AP occurs in fresh Bassia flowers in relatively large quantities.

S. Midya
R. L. Brahmachary
Flat 10, 21B Mati Jheel,
Calcutta 700 074, India

SCIENTIFIC CORRESPONDENCE

Praneem polyherbal cream for contraception – Safety in malaria endemic countries

WHO reports worldwide 300–500 million clinical cases of malaria, and 1.5 to 2.7 million deaths each year, and about 40% of the world’s population is at risk in some 90 countries. In India, malaria cases fluctuate between 2 and 2.5 million, and Plasmodium falciparum constitutes about 1 million or 40% cases annually. P. falciparum is found in almost all parts of the country, but it is a predominant infection in the northeastern states, Orissa and the forested and irrigated tracts in peninsular India. Furthermore, P. falciparum has become resistant to anti-malarial drugs so that recrudescences are more common.

Praneem polyherbal cream and pes-saries with dual properties of contraception and alleviation of genital infections by G. P. Talwar et al. have completed phase I clinical trials at the Safdarjung Hospital, New Delhi. It seems to have a go-ahead signal. Praneem polyherbal cream contains purified extract of neem seeds (pranecem), quinine hydrochloride and saponins from reetha (Sapindus mukerossi), dispensed in a water-soluble cream base. We are concerned at the quinine hydrochloride content in the praneem polyherbal cream which constitutes 30 mg/ml. The recommended dosage is 5 ml of the cream each time, i.e. 150 mg quinine hydrochloride.

Classical blackwater fever (BWF) syndrome occurred predominantly in the non-immunes or semi-immune people exposed to falciparum malaria who were taking quinine in an irregular fashion as a prophylactic. BWF used to be a common malaria complication in endemic countries, but with the advent of synthetic anti-malarial drugs such as proquina and chloroquine, BWF has become extremely rare, although sporadic cases of BWF have now been reported after halofantrine and mefloquine treatment.
Pranecem polyherbal cream contraception technology is likely to result in the (i) loss of sensitivity of the malarial parasite to quinine as a result of its low levels in populations and (ii) polyherbal contraception may trigger immune reaction against drug-sensitized erythrocytes so that people contracting P. falciparum infection may come down with BWF, a serious condition characterized by massive intravascular haemolysis leading to anuria and renal failure. At a time when malaria is returning with speed and available malarial control tools have started producing diminishing returns, use of quinine for other than therapeutic purposes may be hazardous.


V. P. SHARMA
Malaria Research Centre,
22, Sham Nath Marg,
New Delhi 110 054, India

G. P. Talwar replies:

The comments of V. P. Sharma are well taken. The polyherbal formulation in use since over a year, which will be the one employed for contraception has no quinine hydrochloride (QHCl). Thus the risk, however small, of developing resistance to quinine is not posed.

In reading the results of the experiment reported in Table 1 of the cited paper, Sharma has however, wrongly interpreted the concentrations of QHCl used in the initial prototype formulation. 30 mg/ml was the stock solution, which was tested at various dilutions to determine the dilution at which complete spermicidal action is obtained. In column 3 of the table, it is clearly reported as 3.46 ± 0.30 mg/ml (mean was taken as semen from 10 healthy donors was evaluated). It is not 30 mg/ml, the figure on which Sharma has made projections.

G. P. TALWAR
International Centre for Genetic Engineering and Biotechnology
Aruna Asaf Ali Marg,
New Delhi 110 067, India

Meeting Announcement

24th Annual Meeting of the Indian Biophysical Society and MBU Silver Jubilee Symposium on Structural Biology.

Date: 9–12 December 1996
Place: Indian Institute of Science, Bangalore

Topics include: Proteins and Peptides, Nucleic Acids: Structure and Function, Membrane and Cellular Biophysics, NMR and Crystallography.

Contact: Dr R. Varadarajan
Organizing Secretary, 24th Annual IBS Meeting
Molecular Biophysics Unit
Indian Institute of Science
Bangalore 560 012
FAX: 080-3341683
email: ibr@mbu.iisc.ernet.in