Vitamin deficiencies lead to symptoms or disease. The two essential fatty acids relate to the integrity of cell membranes and to immunity. Linoleic acid is the predominant fatty acid in green leaves and fish. Linoleic acid comes from vegetable seeds, such as the sunflower.

Key metabolic functions apart, vitamins and trace elements combine to provide protection against chemical and oxygen toxicity. Antioxidants destroy damaging free radicals, and so prevent tissue damage, including the initiation of arteriosclerosis. The special role of vitamin C, vitamin E, carotene, and selenium as antioxidants indicates the importance of maintaining an optimum intake of vitamins and trace elements. The value of dietary fibre has been well recognised but it now seems that, apart from helping bowel function, it is a function of all fibre foods that are especially important sources of trace elements and vitamins.

In maintaining health one does not need to know the names or chemistry of any essential nutrients but everyone ought to be aware of the groups of foods in which they are concentrated. Most people will know about vitamins B and C but all the other essential nutrients serve equally important roles. The need for trace elements is far better appreciated for horses, sheep, and pets than it seems to be for man. The micronutrients are concentrated in “whole” foods (eg, cereals and pulses) but so much is being taken away by refining processes, as in white flour. Some fresh leafy greens and fruit are also needed, to balance the losses of essential nutrients during cooking.

The Ministry of Food’s campaign in the 1940s was accompanied by a fall in deaths at all ages well below the pre-war trend. It has been generally assumed that this improvement in health was due to the lower consumption of fat and sugar and the elimination of overconsumption because of rationing, aided by the extra exercise from petrol scarcity. Another possible explanation has not received sufficient consideration. In those years the entire nation had a near-optimum intake of vitamins and other essential nutrients thanks to the universal use of the 85% extraction “national loaf” and a vigorous campaign on protective foods. Via leaflets for housewives, chats by the “radio doctor”, cinema publicity, and booklets, all with a light touch, the whole nation soon understood the role of “body building and repairing”, “energy giving”, and “protective” foods. The leaflet for women (“health and beauty in war-time”) would have been a credit to any successful advertising agency today.

The wartime protective foods ensured a near-adequate supply of the six known vitamins, two trace elements, one essential fatty acid, and minerals. The fibre and extra trace elements, vitamins, and essential fatty acids we know about now would all have been present in those foods.

The campaign for healthy eating today focuses on saturated fat and cholesterol, about which the public remain confused—no wonder, since the experts are far from unanimous. Has not the time come to alter the priorities by making protective foods the prime objective, while still urging some reduction in fats? The promotion of protective foods has a firm scientific foundation; it would be uncontroversial and easy to understand; and the advice is positive (“do”, not “don’t”). It carries the bonus that if these foods are taken there is nothing on the supermarket shelves that should not be eaten, in moderation. The protective foods (plus modest purposeful daily exercise and a weighing machine) may prove to be the essentials for physical well-being and strong defences against disease. It worked in the 1940s. We may have more variety today, with new flavours and novel culinary delights, but the nutritional principle is the same.

Protective foods should be the first into the shopping basket, leaving less room for the domestically convenient but less healthy processed refined fast foods and even providing some counter to their possible bowel effects. So often there is a cycle of fifty years between discovery and rediscovery. Could this be another example?

Anaphylaxis to glafenine

SIR,—Anaphylaxis to glafenine has been documented, usually as case-reports.1,2 In the Netherlands, glafenine has been the most frequently reported cause of drug-induced anaphylaxis since its registration in 1967. In 1980-84, for instance, 121 cases of anaphylaxis to glafenine were reported to the Netherlands Centre for Monitoring of Adverse Reactions to Drugs.3 Because data from voluntary reporting give no insight into frequency we studied the relative risk of severe anaphylaxis to glafenine on the basis of hospital diagnoses. These data came from the Dutch National Health Survey and from hospital records of general and specialist hospitals, were for all admissions during one year (1981) for which one or more of the following ICD diagnoses had been recorded: 995-0, 995-4, and 999-4 (anaphylaxis, shock due to anaesthesia, anaphylactic shock due to serum). Detailed clinical information was sought and an anaphylactic reaction was defined as any reaction within an hour after exposure to any cause and in which one or more of the following organ systems were involved: Circulatory: Collapse or hypotension (systolic blood pressure < 100 mm Hg and symptoms compatible with hypotension). Respiratory: Dyspnoea (eg, from laryngeal oedema or spasm or bronchospasm). Skin: Urticaria, angio-oedema, erythematous rash. Gastrointestinal system: Nausea, vomiting, diarrhoea, faecal urgency.

An anaphylactic reaction was considered “probable” if the symptoms met the above criteria, and if the reaction happened within 60 min. Gastrointestinal symptoms as the sole clinical manifestation were not classified as anaphylaxis. Where circulatory failure was the single sign a case-history was classified as anaphylaxis only if cardiac causes had been excluded and if a vasovagal reaction was unlikely. An anaphylactic reaction was considered “possible” if the symptoms were consistent with anaphylaxis, and if the reaction occurred within 120 min or if the temporal relation was given as “immediate” or “shortly after administration”. The risk of severe anaphylaxis to glafenine relative to indomethacin and to oral penicillins was estimated from the numbers of admissions attributed to glafenine and to indomethacin and penicillins and from reimbursement figures for these drugs, as supplied by the Association of Social Health Insurance Funds. Clinical details were received for 136 of 166 admissions in 1981. Cases with scanty data were excluded from the analysis. In the remaining 120 cases, anaphylaxis was deemed probable in 90, possible in 17, and unlikely in 13. The 107 likely (probable or possible) cases of anaphylaxis concerned 46 men and 61 women, with a mean age of 47 (range 4-80; SD 18) and 48 (9-80, 19) years, respectively. In 56 cases anaphylaxis was the reason for admission; in 21 patients the reaction developed in the outpatient department (24); and in the other 5 the circumstances were not known. Recovery was complete in 120 patients; 2 patients died (cause attributed to dextran and contrast medium); in 3 the outcome was unknown. The following symptoms were mentioned in the discharge data: shock/hypotension in 79 (noted as absent in 13), dyspnoea in 34 (absent in 39), and skin reaction in 62 (absent in 16). 25% of patients had gastrointestinal symptoms. Drugs were the most common cause of anaphylaxis. The most frequently reported causes were glafenine (14) and contrast medium (28). A separate analysis of all cases of anaphylaxis as a reason for admission from outside the hospital showed that glafenine was implicated in 21% of admissions and accounted for 34% of drug-induced causes of admission. The risk of severe anaphylaxis to glafenine was estimated at 19-3 (95% confidence interval 4-8-62-3) for tablets/capsules and 11-7 (2-4-58-2) for prescriptions relative to indomethacin, and at 13-4 (2-8-64-1) and 20-2 (4-8-84-8), respectively, relative to oral penicillins. Reporting bias could not have played a part because our analysis was based on all principal diagnoses from all Dutch hospitals. Recognition or referral bias seem unlikely because anaphylaxis is easily recognised in most cases and because there are no indications to believe that glafenine-induced anaphylaxis is any different in severity from that seen with other drugs.

Clearly the risk of anaphylaxis to glafenine is high, and it is likely that these results apply to other countries as well. This risk should
be taken into account when deciding whether or not to prescribe this analgesic.

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Publicity and controversial data

SIR,—I was shocked by Ms Tuffs's comment (Sept 1, p 558) that Prof Gunther Harisch "is very unlike Benveniste, who publicised his results before any scientific discussion was possible". I published an article in the European Journal of Pharmacology in 1987, describing in-vitro immunological effect of homoeopathic dilutions of silica. Another paper appeared in the British Journal of Pharmacology in 1988, describing in-vitro effects of other homoeopathic drugs. In 1986 I submitted a paper to Nature that dealt with the paper in a spectacular way, including several press releases.

I did indeed comment on these very important results but only after publication. It has been a constant attitude of those who do not want to accept disturbing data to confuse deliberately the huge publicity for these data accorded by the world's press—indicating that the findings had pricked the imagination of journalists and lay people—with a systematic publicising attitude by me. Journalists ought to be able to understand the difference between articles on Benveniste's data and articles from Benveniste on his data.

Your Round the World correspondent writes "Benveniste never retracted his findings". Far from retracting my results I will (try to) publish in the months to come indisputable proof.

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J. BENVENISTE

Ascorbic-acid-induced haemolysis in G-6-PD deficiency

SIR,—Patients with a deficiency of glucose-6-phosphate dehydrogenase (G-6-PD) are susceptible to haemolysis upon exposure to certain drugs, infections, or fava beans.1 Vitamin C (ascorbic acid) has been thought of as a safe drug when given in adequate doses to people—"with a systematic publicising attitude by me. Journalists ought to be able to understand the difference between articles on Benveniste's data and articles from Benveniste on his data.

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