sulphur-containing amino-acids such as cysteine and methionine, probably as a result of excessive cyanide detoxication, and the plasma thiocyanate was raised. This work, in conjunction with that of A. D. MacKenzie and C. I. Phillips¹² on West Indian amblyopia, suggests that the dietary ingestion of cyanide is probably the most important single aetiological factor, though associated deficiencies of certain vitamins of the B group may possibly play a part also in causing this type of tropical neuropathy. The hope of preventing the syndrome would seem to depend on finding some means of reducing the dietary intake of cyanide and of providing the population at risk with a more balanced diet.

Teaching Medicine to Dental **Students**

Dentistry is the only specialty of surgery which can be studied in some depth as an undergraduate and for the practice of which a basic medical qualification is not required. Even though the dental student does not undertake a full undergraduate medical training an adequate background of general medical knowledge must be given to him. Not only is such a background of knowledge proper for a specialist in any branch of medicine, but it is also necessary for the full understanding of those conditions which are to be found only in the oral cavity.

Fortunately in Britain it is not difficult to provide such an educational background, for some of our dental schools are part of a medical college and teaching hospital. Where they are not an integral part there is usually a close association with a medical college or a teaching hospital group.

While it is easy to appreciate the need for such a course it is more difficult to define its objectives. There should be a brief general survey emphasizing the uniformity of approach to the problem of disease irrespective of the system affected. Such a survey helps to place dentistry in its proper perspective in relationship to the rest of medicine and also shows the student that the principles of diagnosis and treatment which he is being taught by his dental teachers are common to all the other specialties. Dental surgeons must be able to recognize the patient who is not fit enough for treatment, particularly if this involves minor surgery or a general anaesthetic. Cardiovascular, respiratory, and haematological disorders are important in this respect.

Many general medical conditions affect the oral tissues. The oral manifestations of these diseases are normally covered during the dental course, but it is important that the student hears about and sees something of the other aspects of these diseases or, for instance, every patient with a pigmented oral mucosa will be thought to be a case of Addison's disease.

The effects of modern drugs can require special precautions in the way the patient is treated. Indeed, the more successful the dental treatment of the patient and the longer he keeps a natural dentition, the more difficult may treatment become. Thus in many ways successful medical and dental treatments create their own problems.

There is much to do, but most university courses allow enough time for general subjects. With care an integrated course can be designed which groups together the appropriate lectures in pathology, microbiology, medicine, and surgery relating to a given topic. But who should teach the dental students? In days gone by the classes of dental students were small and there was a temptation to put them in with the much larger classes of medical students, or else to give them into the charge of a junior member of staff. Neither arrangement was satisfactory. Now that classes of 50 to 80 dental students are common the need to treat them separately is not questioned. While the factual content of the course is elementary its scope is large and it is difficult to teach well. Either a consultant who is an experienced teacher or a fulltime senior lecturer should be in charge of each subject. These teachers should have the dental students as their primary responsibility—and if their training in general medicine is to be viewed by dental students as an important part of their course the teaching must be enthusiastic. Equally important, medical students' knowledge of dentistry should be based on authoritative formal teaching.

Sun-gazing

By the end of the nineteenth century at least eight reports had described damage to the retina from looking at an eclipse of the sun. With the growth of medical publication the pace quickened in the present century, so that now virtually every solar eclipse has its sequel of documented casualties, the latest being a report of five cases in the B.M.J. a year ago.2 Doubtless many more go unrecorded. Modern curiosity has replaced ancient terror at this heavenly concordance, and the result in the upshot may well be more injurious. The Ministry of Health has therefore very properly issued a warning to the people of Britain about the partial eclipse of the sun due on 22 September.

Damage to the retina from sun-gazing has also been recorded in cases of mental disturbance. Mr. M. J. Gilkes reports one in our correspondence columns this week at page 678. Scanning the sky for aircraft has been another cause of this injury, especially in wartime, as has staring towards the sun as an intended remedy to "strengthen the eyes" or in the course of religious devotions.3 All these are apt to cause a burnt-out hole in the retina, with perhaps oedema, minute haemorrhages, and some retinal detachment. According to Sir Stewart Duke-Elder the prognosis is extremely variable and to some extent doubtful owing to lack of follow-up for long periods, but he believes it will probably be good if the symptoms, particularly the scotoma, subside during the first month.

Socrates advised looking at a solar eclipse by watching its reflection in water, a procedure that is unsafe even in cloudy Britain and must have been riskier still in the clear skies of Greece. The Ministry of Health says the safe way

Duke-Elder, Sir S., Text-Book of Ophthalmology, Vol. 6, 1954.

Ridgway, A. E. A., Brit. med. 7., 1967, 3, 212.
Das, T., Nirankari, M. S., and Chaddah, M. R., Amer. 7. Ophthal., 1956, 41, 1048.

Flynn, J. A. F., Med. J. Aust., 1960, 1, 85.

Gilkes, M. J., Osmond, A. H., Roberts, D. St. C., and Thorne Thorne, B., Brit. med. J., 1961, 1, 424.
Flynn, J. A. F., Brit. med. J., 1961. 1, 68.