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is given 7-14 days ahead; the patient is lation, though in smaller quantities. provided with a pre-paid form addressed to Tetracycline, and possibly other antibiothe radiologist, whom she notifies in due tics, cause a fall of vitamin C in the blood, course whether or not menstruation has recurred. In the latter event the x-ray examination is cancelled and the general practitioner or consultant so informed. The actual number of cases in which rebooking C and the B group of vitamins to all is required has been very small. This sys- patients. The evidence now available sugis required has been very small. This system is not ideal in that it does not prevent the possible irradiation of a 10- to 18-day fetus; it does, however, safeguard an older fetus and offers minimal delay and inconvenience for all concerned.

It would be of great value in this discussion to have comments on the following:

(1) What are the views of the clinicians and radiologists on the strict application of duration of the common cold, as Linus the "10-day rule"? Is it possible to apply Pauling has suggested. 10—I am, etc., it to non-emergency inpatients without plunging hospital wards and radiology departmental administration into chaos?

(2) Ideally all fertile female patients who are to receive irradiation to the lower abdomen should be given the opportunity of considering a possible pregnancy. Are clinicians willing to accept a method such as that suggested by Drs. Ardran and Kemp which depends on a prior consultation between clinician and patient in every case?

(3) Failing this, is a system as described above and operated solely by radiologists acceptable?—I am, etc.,

LEWIS A. GILLANDERS 8 Ander

Royal Infirmary, Aberdeen

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Vitamins in Illness

SIR,—In "Any Questions" (2 September, p. 582, and 30 December, p. 786) the question whether vitamins should be given in acute illness, or at other times, is discussed.

At the meeting of the Nutrition Society on 7 December 19721 a paper was read showing that elderly people in a large hospital had an average vitamin C level of $12.5 \mu g/10^8$ W.B.C., confirming earlier work.23 Last winter a Medical Research Council team reported that over one-third of elderly people, in and out of hospital, in South Wales had vitamin levels of 0.2 mg per 100 ml plasma, or 15 μ g/108 W.B.C., or below this level (personal communication).

Recent work in the United States^{4 5} follicles begin after 26 days of complete deprivation of vitamin C in young men previously given large amounts of vitamin C. Haemorrhages on the under surface of the tongue began a few days later. The perifollicular skin haemorrhages are regarded by the American authors as "almost pathognomonic of scurvy." They began at plasma levels of vitamin C at or above 0.2 mg/100 ml, correspondingly to 15 μ g/10⁸ W.B.C. These skin haemorrhages occur often in 20% of elderly United Oxford Hospitals hospital patients in Britain. Sublingual haemorrhages are even more frequent (personal findings). Blood levels of vitamin C at or below 15 μ g/108 W.B.C. are very common in elderly people in Britain. Low levels of SIR,—Owing to an impossible work load on vitamin C levels.3 According to the Depart- there have had to be reductions in the ser-

Should the patient appear to have missed ment of Health,6 elderly people eat much one menstrual period a fresh appointment the same kind of food as the general popu-

> often to below 15 μ g/108 W.B.C. The levels of some of the B group of vitamins in the blood also fall when tetracycline is given.7 Some hospitals give supplements of vitamin gests that this should be a universal practice, so that in illness, at least, all people have the recommended daily allowance of vitamin C and the B group of vitamins.
> Recent Canadian⁸ and Scottish surveys⁹ suggest that much larger amounts of vitamin C, 1 g. daily, may reduce the days lost by illness by 30% and reduce the incidence and

> > GEOFFREY TAYLOR

Ilminster, Somerset

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Staffing of Accident and Emergency **Departments**

SIR,—I would like to support the suggestion made by Dr. P. A. M. Weston (13 January, p. 114) that a period of training in an accident and emergency department would be a valuable prerequisite to the entry to general practice. Approaches to the Royal College of General Practitioners and the B.M.A. in the past on the possibility of making this an essential (as it is with the Royal College of Surgeons) have been turned down because of inadequate organization and lack of instruction in many departments.

An essential feature of making such a condition to entry to general practice would be a system of inspection and registration of accident and emergency departments recogshowed that haemorrhages around hair nized for this purpose. This, if properly carried out, would provide the strongest possible stimulus to improvements in the facilities and management in these departments as a means of ensuring job satisfaction and proper staffing. Another benefit might well be the closure of many existing casualty departments where there was no justification for pursuing the required standard.—I am, etc.,

J. C. SCOTT

Shortage of Radiologists

vitamin B₁ are frequently found with low radiologists in the Plymouth clinical area

vice provided. This has included the closing of the radiodiagnostic department to general practitioners, though chest x-rays can still be obtained through the chest clinic. Because of this a meeting of general practitioners passed the following resolution: "The meeting regrets and protests at the withdrawal of general practitioner radiological facilities in the Plymouth area and considers this an unnecessary hindrance to the delivery of normal general practitioner services. The meeting proposes that a system of rationing of radiological services be introduced immediately, whereby individual general practitioners may request a limited number of x-rays each week."

In the light of the above and the fact that there are 70 unfilled radiologist posts in the country I have been asked to write to you urging that the Association use every means available to bring this need to the notice of the Department of Health and Social Security with a view to rectifying the situation as soon as possible.—I am, etc.,

J. P. GRIER

Honorary Secretary, Plymouth Division, B.M.A.

Hartley, Plymouth

Working of the Mental Health Act

SIR.—My attention has been drawn to the article by your legal correspondent (30 December, p. 800) dealing with the case of V.E. (Mental Health Patient). 1 2 I write as chairman of the tribunal stating the case in this particular matter. There is one matter of interest to your readers which became apparent during the course of the hearing but appears only as a side issue in the three judgements.

Section 4 of the Mental Health Act 1959 lays down a statutory definition of "mental disorder" which I understand is rather different from the usual clinical definition adopted by psychiatrists. It is necessary to classify the form of mental disorder into one of various categories, all of which are mutually exclusive. Thus a patient must be stated to be suffering from any one of the classifications set out in section 4 of the Act—namely, "mental illness," "arrested or incomplete development of mind," "psychopathic disorder," and "any other disorder or disability of mind." "Arrested or incomplete development of mind" is subdivided into "severe subnormality" and "subnormality."

For the purpose of section 25, a patient who is suffering from any form of mental disorder of a nature or degree which warrants the detention of the patient in hospital under observation may be detained for a limited period for observation. Under section 26 only those patients who are classified as suffering from four specific types of mental disorder—namely, "mental illness," "severe subnormality," normality," or "psychopathic disorder"— may be detained for treatment. Of these forms of mental disorder, only "mental illness" is not defined by the Act; however, for the reasons given above, if the form of disorder comes within the definition of "psychopathic disorder" the patient cannot be classified as suffering also from "mental illness," unless the patient is at one and the same time suffering from two quite separate and distinguishable forms of mental disorder.

The statutory definition of "psychopathic disorder" (namely, "a persistent disorder or disability of mind . . . which results in . . .