Equipment was limited, and essentials such as scalpel blades and rubber gloves were often missing and had to be borrowed from the R.A.F. It is reliably reported that a certain surgeon on one occasion had to use scissors to make his skin incision for an abdominal operation. There was no anaesthetic machine. For head-and-neck surgery a Heath-Robinson arrangement of borrowed equipment was used. A catheter was attached to rubber tubing and this in turn to a funnel. On to a piece of gauze wrapped over the funnel the ether was dripped. There was no alternative. There were no adequate resuscitative measures available except from R.A.F. sources. If we needed saline, plasma, or blood we had to supply them and the transfusion set. The local saline was so pyrogenic that it was unusable. Oxygen cylinders were supplied, but as there were no workable masks they were of limited value. Sterilization of all dressings was carried out by the R.A.F.

Ancillary medical services were elementary. A workable x-ray unit was only fitted some weeks before we left. Pathological services were limited to the most simple investigations, and more complicated procedures were carried out by the R.A.F. Practically all the public-health aspect of the work was done by the R.A.F. laboratory.

The control of endogenous diseases, considering the primitive sewage system and appalling housing conditions, appeared to be of little avail. Amoebiasis, for example, was widespread and tuberculosis common. Owing to the very limited accommodation available only a small number of cases of the latter disease likely to respond to conservative treatment were hospitalized. Advanced cases spread the disease.

We have made no attempt to list all the inadequacies—space does not permit—and while appreciating that some good has been done by the Colonial Medical Service in Aden nevertheless the general impression created is more than disappointing. Plans, we believe, have been prepared for some time for building a new hospital, but it should be obvious that many defections are unconnected with buildings. In concluding it is worth remembering that Aden is a “shop window” for Great Britain, and that a great many nationalities pass through the port. We felt that no poorer advertisement than the existing medical arrangements could be offered.—We are, etc.,

D. P. VAN MEURS,

W. D. WYLIE,

Belmont, Surrey.

Late Wing Commanders, R.A.F.V.R.

Pulmonary Embolism

SIR,—I welcome Mr. Reginald S. Murley's criticism (Feb. 28, p. 415) of my article “The Aftermath of Gastrectomy,” which was of course no more than a brief summary of a huge subject. Even so I should have devoted more than six lines to an aftermath as serious as pulmonary embolism. However, I am not totally ignorant of modern views on the subject regarding the importance of deep peripheral thrombosis. When Mr. Murley says that my statement, “Thrombosis usually arises in the abdominal wall, or, as in two of these cases, from extension of the thrombosis of haemorrhoids . . .” is preposterous, I disclaim all responsibility and place it fairly and squarely on the shoulders of Nature, since these cases were proved by post-mortem examinations which I personally witnessed—the clots being traced respectively into the azygos and iliac veins (in one a mass of clot still projected into the superior vena cava from the vena azygos major). Nature has an awkward habit of being “preposterous” and oft-times interferes most inconsiderately with our ideas.

I should like to add that as a house-surgeon I was brought up to believe in the value of post-operative leg massage and exercises, introduced in those far-off days by Rutherford Morison, and this practice has been followed throughout my surgical life. However, as the figures in my article reveal, I have not been able to avoid pulmonary embolism by such simple measures. The modern extension of this idea and the introduction of reliable anticoagulants will it is hoped reduce the incidence of this dire complication, but I think I was right in saying that it still remains “a bugbear,” which the O.E.D. gives as “an object of (needless) dread.”—I am, etc.,

London, W.1.

NORMAN C. LAKE.

Bone Conduction in Otosclerosis

SIR,—The report in the *Journal* of Feb. 14 (p. 308) of a paper on bone conduction in otosclerosis, read by Dr. R. R. Woods at a meeting of the Section of Laryngology and Otology of the Royal Academy of Medicine in Ireland, focuses attention on the gain in bone conduction in the operated ear which occurs after the fenestration operation for otosclerosis.

In this connexion I would like to emphasize the considerable lengthening of bone conduction which may occur in the unoperated ear after a fenestration operation on the other ear. This lengthening of bone conduction is a matter of clinical importance, as the following case illustrates.

A man aged 47 consulted me for bilateral deafness getting steadily worse during the last three years. He complained of moderate buzzing noise in each ear. On testing the hearing of the right ear, conversational voice could not be heard distinctly at a distance greater than one-and-a-half feet; with the left ear loud conversation could only be heard occasionally at about one inch. On testing bone conduction with a 256 tuning fork it was found to be lengthened by a few seconds on the right mastoid bone and to be reduced by about 50% on the left mastoid bone. The ear drums were normal in appearance and the eustachian tubes were freely patent.

As a result of the reduced bone conduction in the left ear it was thought that there was likely to be a considerable degree of nerve deafness in this ear. On the other hand, the findings with the right ear indicated that a good result to the fenestration operation on this ear was likely. A right fenestration operation was therefore performed. During the second week after this operation the hearing to conversational voice with the right ear improved to hearing at a distance of about twenty feet. At the same time hearing to conversational voice with the left ear improved to about one foot, and bone conduction, using the same 256 tuning fork, was lengthened to normal for this fork.

In view of the improved bone conduction in the left ear it was decided to do a second fenestration operation on this ear. As there was very little giddiness this was done three-and-a-half weeks after the first operation. The patient began getting up four days after the second operation, as there was even less giddiness after this operation than after the first operation. During the second week after the operation the hearing with the left ear became as good as the hearing with the right ear.

The patient was discharged from hospital six weeks after the first operation, and was back on duty as a commercial traveller two weeks later. It is now six weeks since he left hospital, and all tinnitus has subsided and he is hearing conversational voice at about twenty-four feet in each ear.

The lengthening of bone conduction described above is one manifestation of a syndrome which I call contralateral concomitant auditory facilitation of the fenestration operation. Usually in the less marked cases of bilateral deafness the syndrome is marked by considerable improvement in hearing to conversational voice by the unoperated ear.—I am, etc.,

London, W.1.

W. H. B. MAGAURAN.

Calciferol in Tuberculosis

SIR,—Under dispensary conditions my experience with calciferol in tuberculous cervical adenitis has not been so satisfactory as that obtained by Dr. G. B. Dowling *et al.* (March 6, p. 430) treating cases in institutions. Over a period of four months seven out of eight cases given 100,000 units of calciferol daily by mouth showed a slow improvement which could easily have been due to the other general measures employed. In one case the glands broke down and operation for an abscess was required.

From this it would appear that once a case is under suitable conditions calciferol acts by giving a stimulus to the defence mechanism of the body. Such an action has been noted in six cases of advanced pulmonary tuberculosis. Three or four weekly intramuscular injections of 300,000 units of calciferol improved the general condition, reduced the degree of fever, and induced a gain in weight. No adverse toxic effects were seen in treating these cases of pulmonary tuberculosis.

One other case received 6,000,000 units by injection in 20 days. There were no deleterious effects, nor was any improvement noticed.—I am, etc.,

Wallasey.

R. GRENVILLE MATHERS.

Retroperitoneal Haemorrhage in Pregnancy

SIR,—Dr. J. Kenworthy Ogden's report of this case (Feb. 28, p. 389) is of great interest. It does not appear necessary to try to correlate the aetiology of retroperitoneal haematoma with toxæmia of pregnancy. The post-mortem findings confirmed the presence of massive spontaneous intraperitoneal haemorrhage with no definite bleeding point. The first reported case of this condition was by Barber in 1909. The patient, aged 32, collapsed two days after labour. At operation no definite