Correspondence

Progressive lung disease in a malt-worker

Sir,—The case report described by Ellis and Friend in your July issue (Thorax 1981;36:552-4) is indeed unusual, particularly the granulomas found in the liver. I see in the article no note of tests of the leucocyte function. Since odd cases of the so-called chronic granulomatous disease of childhood can become manifest well into adult life without any remarkable history of earlier infections (Chusid et al. JAMA 1975;233:1295-6; Dilwontu, Mandell. Am J Med 1977;63:233-4). I would suggest the NBT test (Nitroblue Tetrabrazolium Reduction Test, Good et al. Semin Hematol 1968;5:215-54, should be performed on the leucocytes of the patient.

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We were most grateful to Dr Hillerdal for his helpful suggestion that our patient might have chronic granulomatous disease presenting in adult life. The NBT test has now been performed on the patient’s leucocytes and the result was positive, a normal result. We feel that this must make chronic granulomatous disease most unlikely, bearing in mind also that the patient is now aged 47 years. There has been no material change in the patient’s condition since we first reported the details.

JAR FRIEND
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Valid evaluation of plasma catecholamines

Sir,—We agree with the opinion of Barnes et al (Thorax 1981;36:435), that for valid evaluation of plasma cate-

cholamines a radioenzymatic assay is necessary.

In previous studies we had analysed the catecholamine-cAMP- and cGMP-plasma levels in 51 patients with extrinsic allergic bronchial asthma before and several times after bronchoconstriction with acetylcholine-inhalation. For comparison we studied 51 healthy volunteers (Prax Pneumol in press; Prax Pneumol 1980; 34:585; Med Welt 1981;32:309). The catecholamines and cGMP were measured by a specific and sensitive radio-enzymatic method (J Neural Transmission 1979;45:219; Amersham kit) and cAMP by a competitive protein binding assay (Clin Chem Acta 1974;56:221).

The adrenaline levels of patients (median 83-5, range 27-0-1085-4 pg/ml) and normal controls (median 84-5, range 10-8-356-2), the noradrenaline levels (median 258-4, range 88-0-702-0 pg/ml; median 289-2, range 179-0-760-6 pg/ml respectively), the cAMP levels (median 23-6, range 12-6-44-5 pmol/ml; median 25-1, range 13-3-51-0 pmol/ml respectively) and the cGMP levels (median 7-00, range 1-90-15-70 pmol/ml; median 6-35, range 1-50-14-40 pmol/ml respectively) did not differ significantly. These results are, in part, in accordance with those found by Barnes et al.

After the acetylcholine-provocation in the patients there was a 2-5 fold rise in the adrenaline and a 1-0 fold rise in the noradrenaline concentrations maximum five to 15 minutes after the inhalation. For the healthy individuals only a 0-5 fold rise in the noradrenaline levels could be demonstrated. The cAMP and cGMP concentration showed no difference between the groups before and after the inhalation. In conclusion, there is higher sympato-adrenergic activation in patients with allergic bronchial asthma after bronchial provocation with a cholinerigic substance.

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