performance rating 3/2/3.0. Reported side effects on trazodone were tiredness (4 patients), constipation (1 patient) and drowsiness for the placebo (1 patient).

Due to the high drop out rate, the final number of patients in the study group was smaller than the minimum number we have recommended for clinical trials in essential tremor. Therefore, our data were highly consistent for all patients and are similar to those of others who found there were no effects of trazodone in a similar group of 10 patients studied in the United States.

Despite an earlier optimistic report, these findings indicate that trazodone is ineffective in essential tremor. It seems unlikely therefore that serotonergic transmission is directly involved in the genesis of ET. Drugs increasing dopamine, acetylcholine and GABA have also been similarly ineffective. Further neuropharmacological probes may be helpful in exploring the origin of ET. However, it would seem unlikely that a deficiency in a single neurotransmitter system represents the primary pathology in ET.

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Low prevalence of HTLV-1 antibodies in the serum of patients with tropical spastic paraplegia from the Ivory Coast

A high prevalence of human T-lymphotropic virus type I (HTLV-1) antibodies has been reported in the serum of patients with tropical spastic paraplegia (TSP), from various parts of the world. This disease is also present in West Africa where, as in other tropical regions, no obvious aetiology was discovered.

To discover the possible link between TSP and HTLV-1 antibodies in West Africa, the serum of 20 patients from the Ivory Coast was collected. All patients fulfilled the clinical diagnosis of TSP as previously described for TSP. Other causes of paraparesis were excluded by clinical and paraclinical inves-

<table>
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<th>HTLV-1 HIV-1 HIV-II</th>
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<td>Patients 20</td>
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Table: Results of HTLV-1, HIV-1 and HIV-II antibodies in the serum of 20 TSP patients from the Ivory Coast (ELISA and western-blots method).

The prevalence of HTLV-1, HIV-1 and HIV-II antibodies was determined by ELISA and western blot methods. The results are summarised in the table. One patient was positive only for HTLV-1, two patients were positive for HTLV-1 and HIV-11, one was positive for HIV-1 and one was positive for HIV-1 and HIV-II. High HTLV-1 antibody titres were found ranging from 1/5000 to 1/10,000.

The total prevalence of HTLV-1 positivity among TSP patients was 15%. This observation contrasts with the reported prevalence of HTLV-1 positivity reported in other tropical regions, particularly in the Seychelles (5%), and in Martinique (5%).

The seroprevalence of HTLV-1 among healthy controls in the Ivory Coast (1.6%) is similar to that observed in the French West Indies (2%).

These findings confirm that in West Africa antibodies against HTLV-1 antibodies other than HTLV-1 are present in the serum of patients with TSP, as we reported previously. The lack of HTLV-1, HIV-1 and HIV-II antibodies in 75% of patients with TSP indicates that different antigens may be linked to TSP in West Africa, such as other viruses, toxins or malnutrition.

Our results underline the need for a larger study of TSP in Africa to evaluate the role of various aetiological factors with the geographical distribution of the disease throughout the continent.

This work was supported by a grant from The French Ministry of Cooperation (DPR RS423).

Wegener's granulomatosis presenting as peripheral neuropathy: diagnosis confirmed by serum anti-neutrophil cytoplasmic antibodies

The case described by Kirker, Keane and Hutchinson illustrates that neutropathay may occur early in Wegener’s granulomatosis in the absence of more classical pulmonary and renal findings, leading to delay in diagnosis. Even if the diagnosis is suspected, histopathological confirmation may be difficult. We describe a patient presenting with rapidly progressive peripheral neuropathy and inconclusive biopsy findings for whom the demonstration of serum autoantibodies to neutrophil cytoplasmic antigens (ANCA) permitted early diagnosis and therapy.

A 57 year old man developed rapidly progressive numbness and weakness of both hands and the right leg over a period of 10 weeks. He had right wrist and foot drop and marked wasting of both hands. Right elbow, wrist, hand, ankle and foot movements were MRC grade 2-3; limb power elsewhere was grade 4. Numbness and paresthesias diminished over both hands, right foot and the lateral aspect of the right leg; other sensation was unimpaired. He had a vesiculopapular rash on his elbows and hands but no fever, abnormality, and urinalysis was normal.

Urea, electrolytes, haemoglobin and chest radiograph were normal. White cell count was 196 x 10^9/l, 74% neutrophils, 38 mm/hour, and serum C-reactive protein 45 mg/l. Serum alkaline phosphatase was 1031 U/l, alanine transaminase 211 U/l, and aspartate transaminase 73 U/l. Urinary creatinine clearance was moderately reduced at 66 ml/min. Rose-Waaler and microsclerotic tests were negative. C3, C4 and B12 were normal. The presence of serum ANCA was confirmed on indirect immunofluorescence (titre 1 : 80).

The patient was started on cyclophosphamide 2 mg/kg and a reducing dose of prednisolone. Six months later right wrist extension and finger movements were grade 3; limb power was otherwise normal. Sensory impairment was limited to the fingertips and the big toe. ESR, C-reactive protein, white cell count and creatinine clearance were normal, Rose-Waaler negative, and ANCA not detectable.

Histopathological confirmation of Wegener's granulomatosis may be difficult. Parlevliet et al. obtained a histological diagnosis in only 2 of 11 patients with typical symptoms and signs of the disease. When a presumptive diagnosis is acceptable when the presentation is atypical, the decision to start cytotoxic therapy with its attendant morbidity is difficult in atypical cases.

Savage et al. showed that ANCA was not present in a small series of patients with polyarteritis nodosa and Churg-Strauss syndrome, but was highly sensitive and specific for Wegener's granulomatosis and micro-

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