Jarisch-Herxheimer reaction in a patient with neurosyphilis: non-convulsive status epilepticus?

In their lesson of the month Zifko et al.1 described a patient with neurosyphilis who developed fluctuating consciousness, disorientation, restlessness, and fever 10 hours after starting intravenous penicillin. He had tachycardia and hyperhydrosis. An EEG showed generalised 3/5 rhythmic activity (periodic lateralised epileptiform discharge). These findings were attributed to a Jarisch-Herxheimer reaction.

We suggest that non-convulsive status epilepticus is an alternative explanation. Altered consciousness and prolonged confusion are the central clinical findings of non-convulsive status, which may occur without preceding or accompanying generalised tonic clonic seizures, may resolve spontaneously, and may be associated with the autonomic symptoms of fever and tachycardia.1,2 Periodic lateralised epileptiform discharges are one of the EEG correlates of non-convulsive status.3 As stated by the authors, patients with neurosyphilis are susceptible to epileptic seizures, both due to the condition itself and due to a Jarisch-Herxheimer reaction. In addition, penicillin itself may precipitate seizures.4 In their patient, non-convulsive status may have been evoked by one of these mechanisms. It would be of value to know whether patients such as this respond to antiepileptic medication.

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Risperidone in Parkinson's disease

A recent, excellent review of the management of Parkinson's disease called attention to the atypical neuroleptic drug clozapine (an antagonist of dopamine D₂ and serotonin 5HT₂ receptors) for amelioration of psychotic symptoms derived from dopaminergic treatments, when temporary withdrawal of antiparkinsonian drugs fails.1 Small doses of the atypical neuroleptic drug risperidone (0.25-1.25 mg/day) can also be used for ameliorating hallucinations induced by levodopa without worsening motor symptoms in Parkinson's disease.2 Risperidone has a strong affinity for 5HT₂ receptors and only moderate affinity for D₂ receptors. For parkinsonian patients in whom the 1–2% risk of agranulocytosis with clozapine is unacceptable, risperidone is another option.


During production, the figure was incorrectly printed. The correct version is given here.

Correction

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T1 weighted axial (A) and sagittal (B) MRI of the patient showing the hypointense cystic lesion in the right thalamus and basal ganglia. Compression of the upper midbrain by the mass is evident in the sagittal scan.