nerve, but no evidence of tumour or abnormal vasculature. Postoperatively her visual acuity was unchanged.

Review of the literature reveals that this type of pathology is very unusual. Intrachiasm

al haematomata have been recognised,1 some of which are due to chiasmatic gliomas.1 Bleeding causing chiasmatic compres

sion has also been reported secondary to cryptic vascular malformations identified at operation4 and in patients with clinical evidence of vascular anomalies elsewhere. Burnbaum et al4 described a patient with a blue-domed haemorrhagic cyst arising extrinsically to the optic nerve and compressing it at its junction with the chiasm. Holt recorded a similar case.5 The likely cause of these lesions is haemorrhage into a pre-existing cyst.

The aetiology of our patient’s intraneural haematoma is not clear. Maitland et al proposed that most idiopathic intrache

somatic haematoma are caused by small venous or cryptic vascular malformations, and this would seem to be the most likely explanation with our case. The finding of optic atrophy after only three weeks of symp
toms would support this possibility.

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Displaced Torkildsen’s shunt: an unusual cause of cervical myelopathy

The Torkildsen’s shunt procedure involves placing the proximal end of a rubber catheter through a bur hole into the occipital horn of the lateral ventricle, and the distal end through the cisterna magna into the pos

terolateral cervical gutter, where it is then sutured to the dura.7 This procedure is nowadays seldom employed due to the high failure rate but complications are rare after the shunt has been functioning for a number of years.7 The most frequent complications are infections and the development of a false meningocoele due to leakage of CSF through the cervical dura mater.2

A 75 year old male presented after six months of progressive gait unsteadiness and urinary incontinence. In 1964 he developed obstructive hydrocephalus due to a post

traumatic aqueductal stenosis, and was treated with a Torkildsen shunt. He had a

history of alcohol induced peripheral neuropathy.

On admission he was alert, disoriented to time, and his attention and short term memory were very impaired. The only abnor

mality noted on his general physical examination was the right parieto-occipital burr hole for the shunt; vital signs were normal. Cranial nerve examination was unremarkable; there was no papilloedema. He had spasticity in all four extremities, marked hyperreflexia in both arms, areflexia in the legs, and bilaterally extensor plantar responses. Sensory examin

ation showed marked vibratory and proprioceptive losses in the feet. He had dysmetria and intention tremor of all extremities and his gait was wide based and unsteady.

A cranial CT demonstrated dilatation of the lateral and third ventricles and a right parietal shunt tube terminating in the mid right ventricular body. A temporary ven

triculostomy was made and the intracranial pressure readings were never higher than 8 cm H2O over a 48 hour period. A CT myelogram revealed that the distal tip of the shunt tube was within the parenchyma of the upper cervical spinal cord.

The patient had a cerebral C1-C3 posterior laminectomy. The shunt tube was found imbedded in the spinal cord; consistent with the CT image. The tube was withdrawn from the cord cavity without difficulty and shown to be draining CSF. It was then shortened, repositioned in the subarachnoid space, and sutured to the dura at C2 level. No intraoperative complications occurred but on the third postoperative day the patient became lethargic and quadriparetic. An emergent CT of the head and cervical spine revealed increased ventricular size and a posterior cervical fluid collection from C2 to C4 that was displacing the cord. Despite the placement of a ventriculo-peritoneal shunt the patient failed to improve and died of a necrotising pneumonitis one month later.

The reported cases of migration of the Torkildsen’s catheter describe the tube breaking loose from the dura and burying itself into an extra-arachnoidal position. The CSF then drains into the soft tissue and causes a blind sac in the upper cervical region and the intracranial hypertension recours.5 This is probably what occurred in our patient on the third post operative day.

Our case is unusual since the catheter migrated into the dorsal aspect of the cervical cord causing a false syrinx. To our knowledge this late complication has not been reported before, but it should be noted for the patients who still have the ventriculocisternostomy catheter in place.

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Guillain-Barré syndrome associated with idiopathic thrombocytopenic purpura

There is mounting evidence that nerve injury in Guillain-Barré syndrome (GBS) is immunologically mediated, but the roles of cellular and humoral immune mechanisms are uncertain. The association of autoimmu

necare with GBS adds further sup

port to the hypothesis of an autoimmune basis for this disorder. We report a patient who simultaneously experienced GBS and idiopathic thrombocytopenic purpura (ITP) following an upper respiratory tract infec

This 75 year old woman developed acute progressive quadriparesis two weeks after the start of influenza-like symptoms consisting of fever, sore throat and coryza, which were treated with aspirin and amoxicillin. On examination there was flaccid areflexia quadriplegia (MRC grade 0 to 2), palsies of the right seventh and ninth cranial nerves, and distally diminished sensation in all extremities. Numerous petechiae were observed on the hands, wrists, legs and buccal mucosa. The spleen was not enlarged. Haemoglobin was 13.2 g/dl and haematocrit 38.8%. The white cell count was 12000/mm3, with a normal differential count. Platelet count was 6000/mm3. The prothrombin time and partial thromboplastin time were normal. Urinalysis was normal except for haematuria. Liver function studies, serum protein electro

phoresis, antinuclear antibodies, rheumatoid factor, complement levels and LE test were all negative or normal. An increased number of megakaryocytes was found in an otherwise normal bone marrow examination. Platelet-associated and plasma autoantibodies were investigated by immunofluorescence techn

niques but failed to demonstrate any immunoreactivity. Prednisone, 60 mg daily, was administered and the platelet count gradually increased to 25000/mm3 on the seventh hospital day.
polyradiculoneuropathy with mechanism disorder. May constitute Circulating of protein complexes, demonstrated glycoprotein observed in the muscles with the neuropathy for test. Limited sensitivity of circulating platelets, with the response to bleeding. GBS contains IgM from serum of GBS. 2 weakness. The extensor digitorum brevis muscle was denervated and motor conduction along the peroneal nerve could not be performed. Motor latency from the caputulium fibulae to the tibialis anterior was slightly prolonged, but the M-wave was very decreased (0.1 mV). Electromyography of the deltoid, abductor pollicis longus, and tibialis anterior muscles revealed a pattern of discrete activity with an increase in mean duration of individual motor unit potentials. Fibrillation potentials and positive waves were only observed in the deltoid muscle. Six months after the onset of illness the patient still had pronounced proximal (MRC 2 to 3) and distal (MRC 3 to 4) weakness. 3

The diagnosis of GBS was strongly supported by the reduced number of circulating platelets, increased number of megakaryocytes, absence of splenomegaly and the response to prednisone. Specific IgG antibodies defined periplatelet membrane glycoprotein antigens have been demonstrated in patients with chronic ITP, confirming the autoimmune nature of this disease. 4 In acute ITP following a viral infection, the thrombocytopenic factors, be it specific platelet IgM antibodies or immune complexes, have not been defined. Failure to detect antibodies on platelets and in the serum of our patient might be the result of limited sensitivity of the immunofluorescence test. 4 This patient also fulfilled the diagnostic criteria for GBS. 5 This is an inflammatory demyelinating neuropathy in which both protein and lipid antigens in peripheral nerve myelin are the target of immune attack, but the pathogenesis is still debatable. Experimental allergic neuritis induced by immunisation with the P2 protein has been considered a disease of cellular immunity and the experimental model of GBS. 6 Alternatively, during acute-phase illness the serum of patients with GBS contains complement-fixing antiperipheral nerve IgM antibodies. These antibodies bind to a neutral glycolipid in the myelin that has yet to be completely identified. 7 Circulating immune complexes may constitute an additional type of pathogenetic mechanism to produce demyelination. GBS rarely occurs concurrently with another autoimmune disorder. 8 Coexistence of antibodies to factor VIII and peripheral nerve myelin has been demonstrated in a patient with chronic inflammatory polyradiculoneuropathy complicated by a coagulation disorder. 9 The present association is probably the bleeding disorder due to ITP, as described in our case, has only been reported once previously. 10


**Isolated cerebellar syndrome: an atypical form of cerebral malaria**

The neurological manifestations of malaria are usually associated with the febrile attack, their outstanding features being the seizures and an impaired consciousness. We report a case of isolated cerebellar syndrome, a more benign complication of malaria, not related to the febrile attack.

A 31 year old French man, with no past medical history, was admitted on 21 March 1989 at another hospital for a rapidly progressive ataxia. Four months previously, the patient worked as a member of the French Cooperation in Burkina and did not take regular prophylactic anti-malaria drugs. In January 1989, the patient had an attack of fever (40°C), headaches, vomiting and diarrhoea, which was diagnosed as malaria and treated successfully with chloroquine. On 15 March 1989, he experienced rapidly progressive dysarthria and an unsteadiness on walking. A week later, the patient was referred to our hospital.

On admission, he was febrile, but appeared chronically ill and complained of severe fatigue. There was a recent history of weight loss. Cardio-pulmonary and abdominal examinations were normal. There was no rash or lymhadenopathy. Neurological examination revealed a cerebellar syndrome interfering with a normal gait, and a less severe bilateral cerebellar ataxia. There was no abnormality of the cranial nerves, neither was there any nystagmus, or motor or sensory deficit. Tendon reflexes were present bilaterally, but were more prominent on the right side.

The following laboratory studies were normal: complete blood count, erythrocyte sedimentation rate, electrolytes, glucose, blood urea nitrogen, liver function tests, electrophoresis of plasma proteins and amylase. Serological tests for HIV1, HIV2, syphilis, Epstein Barr virus, cytomegalovirus, hepatitis B surface antigen, herpes simplex virus 1 were negative. A radiograph of the thorax, and the cerebral CT scan and MRI were normal. Blood and urine cultures were negative. The CSF was clear, under normal pressure, with six lymphocytes, and a normal glucose concentration. Protein was 0.7 g/L and the gamma globulin count 18% with polyclonal banding. Bacteriological studies of the CSF were negative. The EEG showed diffuse slow waves, suggesting an encephalopathy.

During the following days, while there was no fever, the patient became icteric, and developed a hepatosplenomegaly confirmed by echography. There was also a pan-icterus. Peripheral blood films were positive for plasmodium parasites and an indirect immunofluorescent test was positive at 1:80, suggesting falciparum species. Treatment by mefloquine produced a rapid and complete recovery of the hepatosplenomegaly, pancytopenia and icterus. The cerebellar ataxia improved at the same time. The gait returned to normal two months later. Subsequent blood films for plasmodium were negative.

Even though the so called "cerebellar syndrome" is a well known but uncommon clinical presentation of malaria, there are few reported cases in the neurological literature. Lemercier et al 12 found a transient cerebellar syndrome in two of three patients presenting with severe febrile attacks, but they were usually less prominent than the other general and neurological signs of the attack. Nevertheless, the authors insisted on the frequency of the lesions involving the cerebellum, or its connections on neuropathological examination. Our patient had some common features with the 12 cases from Sri Lanka reported by Senanayake: 1 3 cerebellar ataxia, sometimes associated with nystagmus, occurring in a febrile patient during the febrile attack of falciparum malaria. Gametocytes were present in the blood of these patients and the cerebellar signs subsided one to three months after the anti-malarial treatment was begun. In the 12 patients the delayed onset of the neurological deficit, the absence of general signs (splenomegaly was present in one patient) and the presence of gametocytes in the peripheral blood smears (four out of 12 patients) suggested an immuno-allergic mechanism rather than a direct toxic effect due to the plasmodium, even though there was a complete neurological recovery.

Our patient had different clinical features from those of the cases reported from Sri Lanka, but were similar to those reported by Girard et al 13 and Garin et al. 14 Clinical and laboratory findings in our patient make a viral or toxic cause unlikely.

**REFERENCES**


**A case of childhood Kufs’ disease**

Kufs’ disease is a form of neuronal ceroid-lipofuscinosism (NCL), characterised by progressive epilepsy and dementia with motor
Guillain-Barré syndrome associated with idiopathic thrombocytopenic purpura.

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