A blood pressure of 120/72. He had a left central facial weakness and a mild left hemiparesis affecting the arm and leg equally. Incoordination of the left upper extremity was present on finger to nose testing and bilateral heel-knee-shin ataxia was present, worse on the left. The muscle stretch reflexes were normal and the plantar reflexes were flexor bilaterally. Brain MRI disclosed an area of increased signal intensity involving both the paramedian mid-pons and extending laterally in the caudal third of the pons (Fig 1).

It is unclear why patients with ataxic hemiparesis usually have ataxia contralateral to the lesion rather than bilateral limb ataxia. It has been suggested that the pontine nuclei are more vulnerable to ischaemia than the transverse pontocerebellar fibres crossing from the contralateral side but there is no histological evidence for this. 5,6 Huang and Chang 5 suggested that the crossing transverse pontocerebellar fibres take an oblique downward course to the contralateral middle cerebellar peduncle and in this way a more rostrally placed pontine lesion may involve only the corticopontine fibres and pontine nuclei ipsilaterally, but miss the more caudally placed crossing pontocerebellar fibres. A more caudal transitional lesion would be expected to give rise to ipsilateral ataxia (Fig 2). Our case supports this suggestion, as the lesion extended more laterally and caudally than previously described pontine infarcts associated with ataxic hemiparesis. The more caudal transitional part of the infract in our patient may have damaged the crossed pontocerebellar fibres and have resulted in the leg ataxia ipsilateral to the infract, whereas the more medial and rostral part may have given a contralateral ataxic hemiparesis (Fig 2). This suggestion is supported by Fisher's report of a lower pontine lesion infract and Fisher and Tapia's report of a lateral medullary infarct extending into the lower lateral pons.7 Both these reports gave rise to ataxia only ipsilateral to the lesion.

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Autoimmune chronic active hepatitis and polymyositis in a patient with myasthenia gravis and thymoma

Myasthenia gravis is known to occur with other autoimmune disease. It is rarely associated with polymyositis,4 and very exceptionally with autoimmune chronic active hepatitis. 5,6 We describe a patient with generalised myasthenia gravis, cortical thymoma, polymyositis, and autoimmune chronic active hepatitis. 7,8 A 25 year old Chinese woman presented with intermittent weakness of the limbs for one month with no diplopia, speech disturbance, or bulbar symptoms. She had mild ptosis of her left eye which increased progressively with maintained upward gaze, and proximal limb muscle weakness. The rest of the examination was normal. She had a positive edrophonium test, and serum anti-acetylcholine receptor and antistriated muscle antibody titres. Chest radiography disclosed a mediastinal mass which was subsequently confirmed by CT to be a thymoma measuring 4.2 cm (anteroposterior) × 3.1 cm (width) in the left lobe of the thymus. Serial serum muscle enzymes were raised. A repetitive stimulation test on three muscles showed a more than 15% decrement with postexercice exhaustion. An EMG showed abundant fibrillations, positive sharp waves and insertional irritability, showing small polyphasic motor units. Biopsy of her deltoid muscle showed perivascular infiltration of lymphocytes with phagocytosis and variable numbers of angulated atrophic fibres.

Inocidentally she was found to have hepatitis. During the initial stay in hospital, a liver function test gave albumin 45 g/l, globulin 37 g/l, alkaline phosphatase 106 U/l, bilirubin 21 umol/l, alanine aminotransferase 115 U/l, and aspartate aminotransferase 943 U/l. Viral markers of hepatitis A, B, and C were all negative, whereas antinuclear factor and antismooth muscle antibody were positive. Her HLA antigens were A33, B17, and DR3. Liver biopsy showed a picture of active chronic hepatitis with enlarged portal tracts and a pronounced mononuclear cell infiltrate which split across the limiting plate. There were foci of piecemeal necroses and the hepatocytes often displayed ballooning degeneration. Staining for hepatitis B was negative.

Her muscle weakness responded promptly but not completely to peridostigmine (60 mg four times daily), and after the liver biopsy, she was treated with prednisolone (55 mg daily) and azathioprine (50 mg) daily. Three weeks after, she developed ophalamic herpes, which was treated with acyclovir.

She continued to improve both in muscle power and liver function. Two months after treatment with prednisolone and azathioprine, the liver enzymes were considerably decreased—alanine aminotransferase 39 U/l and aspartate aminotransferase 38 U/l. Thymectomy was then performed and the postoperative course was uneventful. Histology confirmed that the thymoma was encapsulated, non-invasive, and of cortical type.

This is the first report of the combination of generalised myasthenia gravis with thymoma, polymyositis, and autoimmune chronic active hepatitis. Fifty per cent of patients with chronic active hepatitis with liver failure within five years if no treatment is given. Although the prognosis can be considerably improved with steroid and azathioprine treatment, most patients develop cirrhosis.

The susceptibility of the patient to generalised myasthenia gravis, autoimmune chronic active hepatitis, and polymyositis seems to be related to HLA DR3. 5,7 There is probably an interplay of genetic and environmental factors in the occurrence of these diseases. Interestingly, the association of polymyositis and HLA DR3 is claimed to be related to the concomitant presence of antibodies to histidyl tRNA synthetase (Jo-1). 5,8 In this regard the appearance of such autoantibodies in polymyositis is reported to be most uncommon and was absent in the patient reported here. Despite the occurrence of the diseases, a good response was obtained with steroid combined with azathioprine and thymectomy.
The term amaurosis fugax, which means “fleeting blindness”, has come to be associ-ated with transient monocular blindness due to embolism reaching the retinal circulation from the carotid vessels or from the heart. As amaurosis fugax may precede a stroke it is usually viewed in a neurological context. Transient monocular blindness, however, is not solely caused by embolism. It has many causes, including migraine, intracranial hypertension, and malignant hypertension and it is, therefore, important to make an accurate diagnosis. We describe a case of ophthalmologic condition, intermittent angle closure glaucoma, giving rise to transient monocular blindness, so emphasising the need to be aware of such diagnoses.

A 66 year old woman presented with a 12 month history of repeated episodes of tran-ient loss of vision in her right eye. The episodes were precipitated by reading, writ-ing, and watching television for a variable time. They came on suddenly and she described a film descending over her right eye leading to complete loss of vision. The episodes lasted from three minutes to several hours and was an associated aching ache over the right side of the forehead. She had no positive visual symptomatology during an attack and there was no family history of migraine. She smoked six cigarettes a day. She suffered from severe palpebral blackouts for which she attended a cardiolo-gist. An ECG and an exercise stress test were normal; however, a 24 hour Holter monitor had disclosed frequent ventricular extrasystoles and an episode of atrial fibrilla-tion. She was treated with a β blocker and subsequently amiodarone, but this was dis-continued by the patient. Neurological examination was normal, as were carotid duplex scans, brain CT, and an echocardiogram. A provisional diagnosis of amaurosis fugax was made and she was started on 75 mg aspirin a day. In view of the specific premises of her symptoms she was referred for a neuro-ophthalmologic opinion.

Initial neuro-ophthalmologic assessment was normal. As a diagnosis it was decided to try to precipitate an attack. After reading intermittently over a period of four hours she reported loss of vision in her right eye. Slit lamp examination showed pronounced corneal oedema on the right, a poorly reacting semidilated pupil and a shallow anterior chamber. Her intraocular pres-sures were 50 mm Hg on the right and 18 mm Hg on the left. Pulsation of the cen-tral retinal artery was clearly visible on the right.

A diagnosis of intermittent angle closure glaucoma was made. After initial medical treatment to constrict the pupil and lower the intraocular pressure, 9-12 mg of β-blocker were started. Subsequent gonioscopy confirmed a narrow drainage angle and refraction disclosed a moderate degree of hypermetropia which may be asso-ciated with a shallow anterior chamber and narrow drainage angle. A few days after the new appointment, three months later, the patient reported that since the idiopathies she had had no further episodes of visual disturbance.

The first report that transient monocular blindness could precede central retinal hemi-plegia was by Miller Fisher in 1952.1 He stated that “Blindness is usually complete in the affected eye, although at times the defect is partial and fleeting”. The frequency of attacks varies from several a day to a few each year. Symptoms last for years or may disappear completely after a few months. The blindness most commonly comes on as transient monocular blindness being lowered or raised, and vision returns from the opposite direction... The attacks last from a minute or so up to seven minutes or more.”

This led to the awareness that transient monocular blindness may warn of an impending stroke and the need to institute preventative measures.

Our patient had many of the features reported by Miller Fisher. She also had sever-al cardiovascular risk factors, being a smoker and having a history of cardiac arrhythmias. She had features which sug-gested an alternative diagnosis, however. In particular the episodic precipitating factors were atypical. The duration of attacks, which on occasions lasted several hours, was unusual, although attacks of amaurosis fugax of up to 24 hours have been reported.2 A diagnosis of angle closure glaucoma was not originally suspected, as on direct questioning the patient neither reported see-ing haloes, nor having any visual loss associ-ated with poor lighting conditions. Angle closure glaucoma was not associated with severe pain and injection of the globe, whereas our patient had complained only of an aching sensation and had not noted any redness of the eye.

Angle closure glaucoma has previously been reported as a cause of transient monol-ocular visual loss.3 In the three cases reported the initial presenting diagnoses were either of amaurosis fugax or migrainous phénom-ena. Two of the patients described seeing haloes, however, and none of them had spe-cific precipitating factors such as reading. Close ocular work such as reading and sewing can precipitate angle closure glau-coma. It is, however, uncommon for reading to be the sole precipitating factor. Angle closure glaucoma can cause visual loss by various different mechanisms. The raised intraocular pressure leads to corneal clouding due to oedema and may reduce the perfusion pressure of the eye, thereby imparting blood flow to the choroid, retina, and optic disc though the CP angle. This may also lead to a focal ischemia of the retina which can lead to blind spots or scotomata. The patient has symptoms of both.

In conclusion, although embolism are responsible for most cases of transient monocular blindness other causes should always be considered (see review by Gaasterlán4), especially in the presence of atypi-cal features such as specific precipitating fac-tors or an unusually long duration of symptoms.

Photographs


Acquired bilateral opercular lesions or Foix-Chavany-Marie syndrome and eating epilepsy

The Foix-Chavany-Marie syndrome or bilateral anterior opercular syndrome (AOS) consists of lower facial and glossopharyngeal diplegia secondary to dysfunction of the rolandic operculum. It is usually seen in adults. It can result from focal lesions or it is a manifestation of a more widespread process. The age of 11 he developed partial motor seizures (involving the left facial muscles) with poor results until combined treatment with carbamazepine (600 mg/day), valproate (1500 mg/day), and clobazam (15 mg/day) was initiated. He now has only one or two seizures a year, always triggered by eating.

On neurological examination his mouth was always open and he drooled continu-ously. He had bilateral lip, tongue, and pha-ryngeal weakness with dissociation of automatic and voluntary movements of the lower face (voluntary movements impaired and automatic movements preserved). Eye closure and extraocular movements were normal. Affect was normal. He had a brisk jaw jerk. Language was limited to guttural vowel sounds, but his comprehension was normal. He had a minimal left upper limb paresis and generalised hyperreflexia, more pronounced on the left. Computed tomogra-phy and MRI showed atrophic lesions involving both rolandic opercula (figure). Recordings from EEG showed normal back-
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