Letters to the Editor

References


2. Ghiso J, Jensson O, Frangione B: Amyloid fibrils in hereditary cerebral hemorrhage with amyloidosis–Icelandic type (HCHWA-I), but before the discovery of β protein in the cerebral blood vessels in patients with hereditary cerebral hemorrhage with amyloidosis–Dutch type (HCHWA-D), it was thought that cystatin C was also involved in HCHWA-D. An immunohistochemical study with anti-cystatin C of three HCHWA-D patients indeed showed a weak immunoreactivity. However, the finding of β protein in HCHWA-D definitely separated HCHWA-I and HCHWA-D as two different diseases, and the cystatin C immunoreactivity was forgotten.


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Coexistence of Cystatin C and β Protein Immunoreactivity

To the Editor:

Maruyama et al.1 have presented an immunohistochemical study of cerebrovascular amyloid in a large number of affected patients with diverse cerebral pathological conditions. One of the most interesting findings was the coexistence of β protein and cystatin C immunoreactivity in nine cases. Seven of the nine patients had suffered a fatal cerebral hemorrhage. The authors present some hypotheses on the potential pathologic role of cystatin C in the development of cerebral hemorrhages.

After the discovery of the role of cystatin C in the pathogenesis of hereditary cerebral hemorrhage with amyloidosis–Icelandic type (HCHWA-I),2 but before the discovery of β protein in the cerebral blood vessels in patients with hereditary cerebral hemorrhage with amyloidosis–Dutch type (HCHWA-D),3 it was thought that cystatin C was also involved in HCHWA-D. An immunohistochemical study with anti-cystatin C of three HCHWA-D patients indeed showed a weak immunoreactivity.4 However, the finding of β protein in HCHWA-D definitely separated HCHWA-I and HCHWA-D as two different diseases, and the cystatin C immunoreactivity was forgotten.

The reason multiple cerebral hemorrhages occur at the same time in HCHWA-D patients is still an unsolved question.5 A circulating serum factor inducing the bleeding may well be a possibility. The suggestion of Maruyama et al.1 that cystatin C may play an additional role in the causation of hemorrhages in cases of cerebral amyloid angiopathy is worth investigating in HCHWA-D since there appears to be combined β protein and cystatin C immunoreactivity in this disease as well. Their article sheds new light on a forgotten finding in HCHWA-D patients.

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Sneddon’s Syndrome With Negative Antiphospholipid Antibodies

To the Editor:

Sneddon’s syndrome is the association of cerebrovascular lesions and idiopathic livedo reticularis.1 The cerebrovascular lesions usually consist of minor infarctions that occur in the territory of medium-sized cerebral arteries and usually have a favorable outcome; however, this favorable outcome is darkened by the severe mental deterioration that occurs in more than half of the patients.2,3 Livedo reticularis may appear years before any neurologic symptoms. It involves the trunk and four limbs and worsens with cold.3 Sneddon’s syndrome usually occurs between the second and fourth decades, with a female predominance.1–3 Computed tomography (CT) generally shows multiple infarcts and diffuse cerebral atrophy.4 Cerebral angiography frequently discloses multiple stenoses and occlusions located in medium-sized arteries, but may also be normal. Digital artery biopsy shows segmental intimal hyperplasia, which includes fibroelastic proliferation with few smooth muscle cells.

We report a typical case of Sneddon’s syndrome that is not associated with the antiphospholipid antibody syndrome. A 43-year-old woman was admitted to the Neurology Service at 12 October Hospital because of an acute speech disorder. Neurologic examination revealed global aphasia, with no other abnormalities. General examination showed livedo reticularis on the trunk and four limbs. One month later, she had improved greatly, and only minor motor dysphasia remained.

Livedo reticularis was first noted by the patient when she was 8 years old. Seven years before admission, she had had a minor right hemispheric ischemic stroke from which she recovered completely in 2 weeks. One month before admission she suffered a thrombosis of the central retinal artery. The patient had no history of miscarriage or deep venous thrombosis. The family history was unremarkable.

The following tests were performed with normal results: erythrocyte sedimentation rate, complete blood count, renal function, liver function, lipidogram, serum protein electrophoresis, total cholesterol, HDL cholesterol and LDL cholesterol, triglycerides, serum glucose, complement levels, chest X-ray, electrocardiogram, and echocardiogram. Antinuclear, anti-DNA, and extractable nuclear antibodies; rheumatoid factor; RPR; FTA-ABS, and antibodies to Borrelia burgdorferi were negative.

A CT scan of the brain showed multiple infarcts. Cerebral arteriography demonstrated multiple occlusions and stenosis of medium-sized vessels. A digital artery biopsy revealed intimal hyperplasia consisting of fibroelastic proliferation with smooth muscle.
Coexistence of cystatin C and beta protein immunoreactivity.
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