Multiple sclerosis associated with syringomyelia

A 41 year old woman experienced subacute onset of weakness in her right arm, hypoesthesia of the left limbs, urinary urgency, and radicular-like pain in her third right cervical root territory. The neurological examination disclosed a right Brown-Séquard syndrome at the C3 level and horizontal disconjugated nystagmus gazing to the right. Spinal magnetic resonance (MR) (figure A) showed a large, proton density and T2 weighted hyperintense and Gd enhancing intramedullary lesion extending from the level of C1 to C3 discs encompassing the central canal, associated with a distal, not Gd enhancing small syrinx centrally located and extending from C5 to C6 disks. There was no evidence of spinal cord tumour or of Chiari malformation. Brain MR showed bilateral multiple, proton density and T2 weighted hyperintense lesions, with no Gd enhancement. Visual evoked potentials showed increased latency of the P100 component after visual stimulation of the right eye. Cerebrospinal fluid isoelectrofocusing disclosed four oligoclonal bands. A diagnosis of laboratory supported definite multiple sclerosis was made according to Poser’s criteria and 1 g intravenous methylprednisolone daily for 5 days was administered. Two months later the symptoms subsided. MRI of the cervical cord showed reduction of the demyelinating lesion, with loss of Gd enhancement. The syringomyelic cavity was substantially unchanged. Six months after onset the symptoms remitted. Proton density, T2 weighted, and Gd enhanced MRI showed disappearance of the demyelinating lesion and a slight reduction in size of the cavity (figure B).

Very few radiographically documented hydrosyringomyelia in patients with multiple sclerosis have been reported in the literature since the first description in 1985. Our findings suggest that spinal syringomyelic cavities may develop and fluctuate during the course of multiple sclerosis as a consequence of CSF dynamics imbalance due to multiple sclerosis lesions affecting critical areas of the spinal cord.

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Notes