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Celebrating 35 Years of the AJNR: November 1984 edition

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Celebrating 35 Years of the AJNR

November 1984 edition

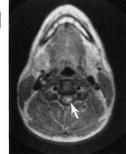
Magnetic Resonance Demonstration of Multiple Sclerosis Plaques in the **Cervical Cord**

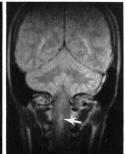
Kenneth R. Maravilla¹ Jeffrey C. Weinreb Richard Suss Ray L. Nunnally

Magnetic resonance imaging (MRI) has been shown to be far more sensitive than computed tomography (CT) in the detection of multiple sclerosis plaques within the resin. Unlike CT, MRI is also able to detect multiple sclerosis in the brainstem and cerebellum. This report is the first description of MRI of multiple sclerosis plaques within the cervical spinal cord. Twenty-nor patients with clinically typical multiple sclerosis had characteristic plaques within the brain. In 10 patients one or more plaques where sclerosis had characteristic plaques within the brain. In 10 patients one or more plaques were considerable on the cervical spinal cord. Plaques in the spinal cool were detected only in indicating the spin continuation of the spinal cord was detected only in indicating using the larger-diameter body coil because or power signal-bondes ratio. Further improvement in visualization of plaques in the lower cervical and thoracic spinal cord may depend on development of high-quality surface coils.

Multiple sclerosis (MS) is a widespread demyelinating disease of the central nervous system consisting of lesions widely separated in location as well as time of onset. MS has traditionally been a diagnosis of exclusion that has required evaluation of patients with multiple imaging studies including computed tomography (CT) of the head and myelography whenever symptoms attributable to a spinal cord lesion are present.

In recent years, an implicating the official disposition of MS 11 (2). These tests include visual, auditory, and somatoensory-evoked potentials. Cervical cerebraphal fluid (CSP) analysis, including measurement of 10g and CSF electrophoresis for the detection of oligodoral bands, is also extremely helpful. However, while these sophisticated tests increase the sensitivity and accuracy for diagnosing MS, they have several limitations. They are not positive in 100% of patients with MS, and patients with other diseases may have elevated [9g and disportable and state of the control of th





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CT of Acquired Immunodeficiency Syndrome

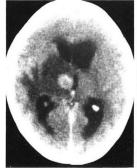
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In the spring of 1981, the Centers for Disease Control began to report in alarming numbers healthy homosexual men with infections and Kaposi sarcoma [1-3]. The etiology of this acquired immunodelicency syndrome (AIDS) is unknown, but has since been reported increasingly outside the homosexual community, in intravenous drug abusers [1-4]. Haltians [7], women who are not themselves drug abusers but have sexual contact with addicts [8], and hemophiliacs and other recipients of blood products [9]. Orly pulmonay and gastroinestanti changes have been reported in the radiologic literature [10-28]. We are unaware of a comprehensive review of the central nervous system (OKS) manifestations in AIDS. Over the past review of the central nervous system (OKS) manifestations in AIDS. Over the past of a number of such patients. It appears that, although a wide spectrum of changes is seen, certain appearances may be characteristic of this disorder. Our study is a report of such changes.

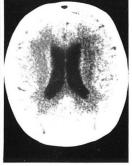
Thirty patients with the diagnosis of AIDS admitted to the New York Hospital and Memorial Sloan-Nettering Cancer Center were scanned on a GE 8800 or Technicare 2020 scanner, intravenous contrast material was administered in all cases. Patients were from 26-50 years of age; 22 were sexually active homosexuals, two were intravenous drug abusers who demed homosexually, and as did not state sevaul orientation. Note were admitted for evaluation of underlying malignancy and for overvirenting systemic Presumocystic carnii and cytomegaic viail relactions. The indications for CT evaluation were decreased mental status in 16 cases and confusion and changes in the level of consciourness in 12. CT lesions were confirmed by looply, sudopsy, or official response to hereapy (baller).

Six different types of CT abnormalities were observed (table 1):

1. Ring-enhancing lesions with surrounding low attenuation were seen in four cases; three cases had single lesions, one multiple. There was slight mass effect or mass effect disproportional to the size of the area of decreased attenuation







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