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# Celebrating 35 Years of the AJNR: March 1985 edition

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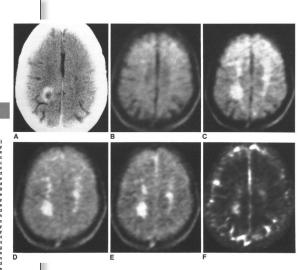
### Celebrating 35 Years of the AJNR

March 1985 edition

#### Magnetic Resonance Imaging in Multiple Sclerosis: Results in 32 Cases

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A prospective clinical study was performed in 32 patients with multiple scherois (MC) to evaluate the sensitivity of lesion identification of neurologic examination, delayed enhanced computed tomography (CT) with a double to the control of the co



Received M. September 12, Presented in American Soci cisco, June 198 This work w Health Service <sup>1</sup> Departmer Medicine, 120 <sup>2</sup> Departmer Medicine, Hous <sup>3</sup> Departmer pital, Austin, T) <sup>4</sup> Neurology 66211.

#### Demonstration of Diastematomyelia and Associated Abnormalities with MR Imaging

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Three patients were studied with a 0.1's reproconduction gauge to assess the not required and associated abnormatities. Comparison was made with other imaging tuch niques, including meritzamide computed temographic (CT) myelography. With Mit alagin, the divided spinal cord was well imaged in its entire carnicocated extent comparable to CT myelography. The bony septum, when it contained a marrow carry with and without associated lipona were clearly imaged. Mit maging demonstrate associated syring-phytromyetia in one patient that was not detected by other radiologic studies. This prelimitary experience with Mit imaging of calestenathomyetis associated. This preliminary experience with Mit imaging collastenathomyetis and studies. This preliminary experience with Mit imaging cale distincted that once the bony details of the abnormality are detined. Mit imaging can definite the disequence of the second control of the abnormality are detined. Mit imaging can definite the disequence of the second control of the abnormality are detined. Mit imaging can definite the disequence of the second control of the abnormality are detined. Mit imaging can definite the disequence of the second control of the second control of the second control of the disequence of the second control of the second control of the disequence of the second control of the disequence of the second control of the disease of the second control of the disease disease

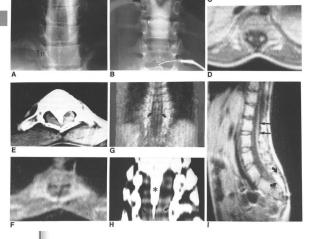
The radiologic evaluation of spinal dysraphism, including diastematomyelia, has been heavily dispendent on metrizamide computed tomographic (CI) myleography. The risks associated with contrast material (interizamide), radiation exposure, and the invasiveness of the procedure have been considered to be far outweighted to its tremendous diagnosist value. Clinical experiences with magnetic resonance (MR) imaging have shown it to be truly promising in the evaluation of various abnormalities involving the spinal column [1–5]. Direct visualization of the spina codd itself is probably the most rewarding leature of MR imaging compared with more conventional electriciques. We report three patients with diastemationnyelia and

#### Subjects and Methods

Three patients with dissternationyelia identified on conventional radiographic studies were scanned on a cryogenic superconducting magnet (relation). Technicate Corp., Sotion. (94), opening at 0.3 This finaligues were obtained using a two-dimensional single-site technique with about 12 mm section thicknesses. A spin-echo (65) public sequence was chosen, with an appellion time (19) 4 500 mice; and one-oblight met (19) 100 mice; Lating the middles are perfect to the control of t

#### Results

Full descriptions of the MR findings from each patient are found in the legends of figures 1-3. A high level of contrast between the spinal cord and surrounding structures was achieved with the SE technique used. In general, axial images demonstrated the spilt cord as two separate, intermediate-signal-intensity structures in the spinal conal. The coronal images, obtained at several different levels



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