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Celebrating 35 Years of the AJNR: November 1983 edition

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Celebrating 35 Years of the AJNR

November 1983 edition

NMR Imaging of the Spine

Benjamin Kaufmar Saba J. El Youse Jane E. Bensol Charles T. Bonstelle Ralph J. Alfid John R. Haaga Hong Yeung The usefulness of nuclear magnetic resonance (MMM) images in the evaluation of a planial disorders below the cranicoversity alunction was statisfied. Six normal subjects and 41 patients with various spinal admormatiles were examined. MMI proved capable of 12 patients with various spinal admormatiles were examined. MMI proved capable the evaluation of symphopythoroysis and cytatic spinal cord tunnors, and the bright spinal intensity of lipoma was quite impressive. In the evaluation of hernizeted disk, MMI images offered a new perspective by visualizing admoral degradation of the evaluation of spondy and a spinal stenois. Although NMI imaging of the spine is all in a very early developmental stage, the absence of both lookings relations and risks associated with contrast material makes it specially although was a new displant of the property of the spine will increase.

Nuclear magnetic resonance (MMT) holds great promise as an imaging method with its high thorocteal limits in image detail and very fow attendant risks. Clinic experience in the evaluation of the central nervous system, particularly the brain is rapidly accumulating [1-5]. However, the normal anatomic features of th spine have not been established thus far with NMR. We summarize initial MI studies of spinal anatomy in normal subjects at our institution and present MI studies of spinal anatomy in normal subjects at our institution and present MI studies of spinal seriors.

Subjects and Methods

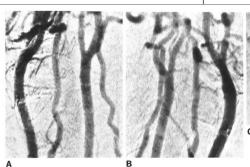
During a 5-month period, six normal subjects and 41 patients with various spin shormalities underven NMR examinations of Lace Western Reserve University/Universit Hospitals of Cleveland. Normal adult volunteers included four men and the women with mean age of 31 years. To delineate the normal morphologic images of the spins and it related structures, the entire spinal column of each normal subject was studied in a supplicition. NMR studies were also performed on 41 patients CQ men and 21 women agrangs, 12-77 years; mean age, 37 years) who had a confirmed disponation to the basic clinical findings and for preceding subdicels studies, including myelography and colinical findings and for preceding subdicels studies, including myelography and colinical findings and or preceding subdicels studies, including myelography and continued to the control of the

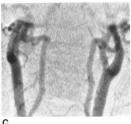
Various radiofrequency puble sequences were used to obtain the NMR images, including attention-decovery (IR), internal-network (IR), internal-network (IR), and Images, including attention-decovery (IR), and Images, including attention (IR), internal inter



Limitations in the Interpretation of Intravenous Carotid Digital Subtraction Angiography

Michael G. Hoffman¹ Antoinette S. Gomes¹ S. Osher Pais^{1,2} To evaluate the limitations of intravenous carolid digital subtraction angiographs (DSA) in the diagnosis of carolid disease, studies of 130 patients were reviewed. Factors that resulted in a nondiagnostic study included: (1) misregistration larger, and studies of the carolid bifurcation; (2) acternal carolid or vertebral artery over-articles of the carolid bifurcation; (2) acternal carolid or vertebral artery over-acrolid control of the carolid bifurcations in two opposite obliques protections or an oblique and netroposterior projection was achieved in only 34 patients (20%), 01 126 carolid anteroposterior projection was achieved in only 34 patients (20%), 01 126 carolid showed an absorbanisty in one projection but appeared normal in another. Their shormalities would not have been detected had the vessel been visualized only in the sportiously normal papearing projection. These and other limitations of intravenous septiously normal papearing projection. These and other limitations of intravenous





ly (DSA) has become popular for screening he brachicopehid ressels [1-5]. Avoidance of mance on an outpatient basis account for the Recent reports have indicated that clinical nonoperative treatment can be made on the cases [1]. Furthermore, it has been stated that hall and it arch angiography [2]. However, we are reported and a rea papiele, carolid DSA studies may be fence not warranted by the quality or completenerover, although the incidence of significant dure is not without risk and the associated ion.

VI-I, Lot 2, was used with a 0.7 mm focal spot and 6 cm) image intensifier modes. Exposure factors wern d were generally 100–200 mA and 65–75 kVp. Th 255 × 8 matrix. Imaging was performed using the preformed using the frame/sec, averaging eight frames.

yer enancy sect, avertaging eight traines, sume about 1.6 of fluid beginning the previous night ocedure. With the Seldinger technique, a 5.0 French selet was placed in the superior vens cave via an a whom an arm with our control of the catheristics. As selected and the selected of the catheristics, as celled at 20 ml /sec. Exposures were initiated 4.4 sec. valuation consisted of four projections: 45°–55° right entire oblique. (Pro) of neck; 55° French article active lation. Additional steeper oblique or antercoposterior I interest were oblique or antercoposterior I interest were oblique for antercoposterior.