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AJNR Am J Neuroradiol 2021, 42 (3) 616 doi: https://doi.org/10.3174/ajnr.P6835 http://www.ajnr.org/content/42/3/616.citation

This information is current as of August 11, 2025.

Celebrating 35 Years of the AJNR

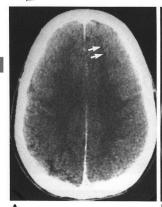
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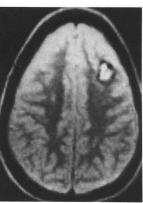
MR Imaging of Angiographically Occult Vascular Malformations

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Eleven patients with 15 anajographically occult arteriovenous malformations were studied by magnetic resonance (MR) imaging and computed temography (TC). Five patients had biopsy price is were clinically diagnosed from the long-term clinical collow-up (more than 3 years) and imaging features. Of the 15 seisons, 11 were recognized by both CT and MR. Each method was faisely negative for two lesions. The most sustain contribution of MR in the characterization of angiographically occult arteriovenous malformations was the depiction of hemorrhagic fact in 12 of 15 lesions seen on MR. rest were iso or "Input insulation," and in the second process of the process of the second rest were iso or "Input insulation," and in the other as punctate calification, that were not seen with MR. MR complements CT in characteristic angiographically occult arteriovenous malformations and in distinguishing them from similar-appearing lesions, in particular, small neoplasms. However, when such telesions are seen with only focal calcification and continued to the complements of the characteristic angiographically occult arteriovenous malformations and in distinguishing them from similar-appearing lesions, in particular, small neoplasms. However, when such telesions are seen with only focal calcification and the control of the con

The detection and accurate diagnosis of angiographically occulir arterioreusous vascular malformations (AVMs) of the brain on the basis of clinical or radiologic manifestations was uncommon until the introduction of computed tomography (CT). Although CT orteria have now been well established and serve to improve detection of these lesions [1-3], preoperative discrimination from tumors remains problematic. The relative sensitivity and specificity of magnetic resonance (MR) provising appellation of the provising of the provision of the provision





MRI of Optic Chiasm and Optic Pathways

Benjamin C. P. Lee¹ Leslie Saint-Louis Michael D. F. Deck Eight verified lesions of the optic chisam were examined on 0.5 T magnetic resonance (MR) and CE 9800 800 computed forengaphic CIT you sense. Enlargement of the optic chisam was demonstrated and cases. There was some change of MR signal compared with brain in all but one case, which had no resemblance to contrast enhancement on CT scams. The signal was specific for hematoma in one case. Abnormal signal, probably signifying tumor spread into the optic readation, was detected on T2-weighted images in one case. The resolution of MR scams is similar or superior to CT, and sagittal views are most useful in evaluating lesions in this location.

Abnormalities of the optic chiasm are difficult to detect on CT scans because of the poor contrast difference between this structure and the subarachnoid space and the frequent occurrence of streak artifacts in this region [1-4]. Primary lesions are seldom distinguishable from secondary involvement by adjacent pathology. Mertramade CT is usually performed for detailed delineation of telsions in this location [5]. High-resolution MR scanning is reported to be helpful in evaluating the normal optic chiasm and nervee, but foodcomentation to legathologic lesions is limited [6]. Our study was aimed at comparing MR with plain CT and metitizande CT in the evaluation of besides of the optic chiasm, tracts, and finalition.

Subjects and Methods

Egit patients with lesions of the optic chasm were examined. Three had primary gold chasm humors, both advantasers of optic nevel ginams posterionly into the optic chasm and tract, one had a hermationia probably secondary to a glicinal, one had infiliation by a long probability of the charge of the charge of the charge of the charge of the forms. Spin-act long SEM Miscarring was performed on a 10.3 T superconducting or Single- or multisection scans in the axial and sagital planes were obtained in all cases using choosing (159, 100) and more repetition into (150, 100) and the charge of the charge of the long through the charge of the convert principles were used in selected cases. Multisection scans were 8 min single sections were 10 mm thick. Two signal averages were used in all scanning sequences Spatial resolution was 12–15 mm.

CT was performed using GE 8800, 9800, or equivalent third- or fourth-generation scanners 1,5-3-mm-thick axial or coronal sections were obtained after a single dose of intravenou contrast material in all cases. Metrizamide CT using 1.5 mm axial sections with multiple-plan reconstruction was performed in two cases.

Results

The optic chiasms were enlarged in all five cases of glioma: symmetric in three and asymmetric in two (figs. 1 and 2). There was extension into the optic tract in two, with compression of the ambient cistern, and displacement of the midbrain in





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