

## Get Clarity On Generics

Cost-Effective CT & MRI Contrast Agents





# Celebrating 35 Years of the AJNR: March 1984 edition

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## **Celebrating 35 Years of the AJNR**

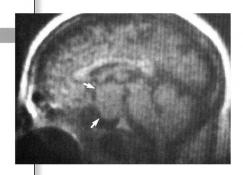
March 1984 edition

### MR Imaging of Pituitary Adenomas Using a **Prototype Resistive Magnet: Preliminary Assessment**

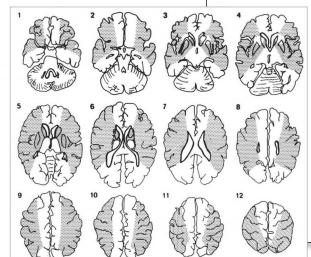
The introduction of computed tomography (CT) has revolutionized the imaging of intracratial neoplasma. High-resolution CT has been shown to have high sensitivity in detecting plutialary humors and represents the standard against which any new imaging method must be measured. Previous publications dealing with may new imaging method must be measured. Previous publications dealing with majer enter resonance (MR) imaging of intracranial seleons have generally included examples of a wide variety of pathologic conditions [1-9]. To date, none have dealt exclusively with a series of cases of a single tumor type. Very few MR images of pitutiary adenomas or apparently normal plutiary glands have been presented (A, T., 10-12). Our study represents an evaluation of MR imaging in a consecutive series of 10 patients with puturally adenomas, using a prototype resistive magnet MR system. Effectiveness of MR imaging was compared with that of CT. or duced largely by variations in electron density of tissues. Further, detection and evaluation of puturally adenomas regular the use of intravenous contrast enhancement and, occasionally, intrathecal contrast methods. Proton (14) MR imaging exolotist the interections of static and drawner mannets felders, adofronaucy (RF).

exploits the interactions of static and dynamic magnetic fields, radiofrequency (RF) energy, and hydrogen nuclei, yielding information about proton density and the on, OH.

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#### **Correlation of CT Cerebral** Vascular Territories with Function: 3. Middle Cerebral Artery



Discussion

The largest area of the brain that is normally supplied by the vessel(s) of the middle cerebral territory is indicated in figures 1 and 2. An occlusion of the middle interest of the middle cerebral territory is indicated in figures 1 and 2. An occlusion of the middle illustrations, in fact, collateral supply, which often interfaces at the perpichery of infarction, may cause the area of involvement to be smaller than that schemaridy defined. Furthermore, the area of involvement may have a patchy appearance because only selected branches within the territory are coulded by embodie of all victim to failure of collateral circulation. Very rarely occlusion may result in infarction on a near that is larger than the territory ascribed to it in figures 1-3. In a larger than the territory assorbied to it in figures 1-3. In the cases the territory supplied by the inflarction vessel has "extended" va collateral consistent enterticyst, the hardrast supply of which has previously been componised. Thus when the reacuing vessel is componised. Thus when the reacuing vessel is componised, mind the reacuing vessel is componised. Thus when the reacuing vessel is componised.