

## **Discover Generics**

Cost-Effective CT & MRI Contrast Agents





# Celebrating 35 Years of the AJNR: November 1982 edition

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### Celebrating 35 Years of the AJNR

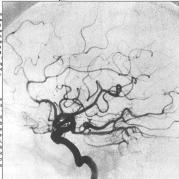
November 1982 edition

#### Digital Subtraction Cerebral Angiography by Intraarterial Injection: Comparison with Conventional Angiography

Michael Brant-Zawadzki<sup>1, 2</sup> Robert Gould<sup>2</sup> David Norman<sup>2</sup> Thomas H. Newton<sup>2</sup> Barton Lane<sup>3</sup>

For 4 months, a prototype digital subtraction system was used to obtain in the cerebral vasculative after intrasterated contrast injections. In 12 instain intrasterial injections were recorded with both a digital subtraction unit and tinosal direct magnification film-screen system. The digital subtraction on commitm subtraction images were compared and graded for quality and information by three skilled observers. In addition, quantitative measurements of contrasters—limiting praction, in a clinical setting, both the digital subtraction are considered in the contrast detail curves demonstrated that digital subtraction amplications of the contrast detail curves demonstrated that digital subtraction amplication. Contrast-detail curves demonstrated that digital subtraction amplications of the contrast detail curves demonstrated that digital subtraction amplications of the contrast detail curves demonstrated that digital subtraction amplications display also reduced the time required to obtain the ampliogram, markedly film cost, and lowered the contrast superate burden.

Digital subtraction imaging of the extra- and intracranal cerebral via after intravenous injections of contrast material is becoming an est screening procedure (1–3). Patient motion, superimposition of multiple contrast agent butten, and suboptimal resolution (3) reserved to this method to the motion of the method to the superimposition of multiple contrast injections of the method to the superimposition of the method to the superimposition of the superim





ber 1982 issue of AJNR and the February 1983 issue of AJR.

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glcum, Washington, D.C., October 1982.

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#### Subjects and Methods

Equipmen

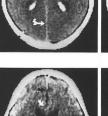
The DSA unit (DF 100, D which included a progressiv interfaced with a 9-inch- (22 (Fluoricon 300, G.E. Medica x-ray tube (Maxi 100, G.E. 600 mA, 0.013-0.030 sec. I camera (Matrix Instruments) Conventional 1.8-2× mar

## Falx and Interhemispheric Fissure on Axial CT: II.

Recognition and Differentiation of Interhemispheric Subarachnoid and Subdural Hemorrhage

Robert D. Zimmerman<sup>1</sup> Eric J. Russell<sup>2</sup> Emily Yurberg<sup>1</sup> Norman E. Leeds<sup>1</sup>

Interhemispheric hyperdensity or unenhanced computed tomograph, considered a sign of subarachnoid hemorrhage, the "dis sign." It is identified as a normal feature and has also been seen with interhemispher hemorrhage, to determine the differential features of interhemispheric hemorrhage and the subarach hemorrhage properties of the subarach hemorrhage properties of the subarach hemorrhage produce unilaterial rescence in byperdensity only, with a sizage control and external produce unilaterial rescencific hyperdensities that are largest in the popration of the fissure, behind and above the splenium of the corpus caliform part of the fissure, behind and above the splenium of the corpus caliform interhemispheric system of the strategy of the s





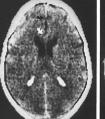
Interhemispheric hyperdonelly on unenhanced computed tomographical profinally described as a sign of abuserachnoid hemorrhage [1-4]. But other causes of interhemispheric hyperdonelly have since to including the normal fats [6-7] and interhemispheric subdural he We have also noted transient interhemispheric hyperdonelly in cerebral edem. To determine the differential CT relatures of conditions, 50 patients with subarrachnoid hemorrhage, 32 patie hemispheric subdural hematomas, and three children with cerebral edem. And there children with cerebral edem.

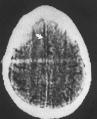
Materials and Methods

Subarachnoid Hemorrhage

CT scans of 50 patients with subarachnoic hemorrhage were retrospect Christin for selection were; (1) initial scan within 3 days of lictus; (2) spinal hemorrhage; and (3) CT evidence of blood within subarachnoid spaces interhemispheric issure). In addition, at least one of the following criter angiographic evidence of a source of hemorrhage (e.g., aneurysm or art formation [AVA] or (2) surgical and/or postmontere confirmation of hem were 23 males and 27 females, varying from 3 months to 61 years of a given chaired in 24 nutless. The victories causes of hemorrhage are list.

were obtained in 24 patients. The various causes of remorrhage are listed in faule 1. Findings in this group were compared with those in 200 normal patients (see part 1 of this article [5]).





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ian-St. Luke's Medical Center, Chicago, IL 30612. 4JNR 3:635-642, November/December 1982 1195-6108/82/0306-0635 \$00.00