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Celebrating 35 Years of the AJNR: November 1980 edition

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Brainstem Evaluation with CT Cisternography

J. Richard Steele

Seventy-eight positive contrast computed tomography (CT) cistemograms we reviewed to assess the normal anatomy of the brainstem and its surrounding cistem Normal brainstem and cisternal anatomy was found to be constant and symmetric for review included its patients with brainstem gliomas and five patients with what attraxis to the constant of the patients with the application of the patients with what the patients with the patients with the constant of the patients with a patient patient patient patients of the patients with the patients of the patients with the patients of the patie

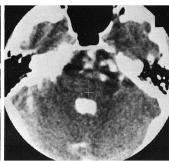
Before the advent of computed tomography (CT), patients suspected of harboring a brainstein gliona were subjected to angiography and pneumoencephalography. In most instances CT is now capable of identifying a brainstein massisided necessary to support the diagnosis (1-4.1 her persons of early insesisations concerning the potential value of positive contrast CT cisternographigators concerning the potential value of positive contrast CT cisternographineouraged us to use this technique for brainstein evaluation (5-7). This report discusses our experience with CT cisternography as it relates to the normal and abnormal brainstein, and the application of this technique to those cases in which conventional CT of the brainstein is negative or insufficiently diagnostic for patient management.

Materials and Methods

CT citatenography is performed by the lumbar subsrachhold instillation of 8 rid entrianation acconstration of 100 mg/ rid under fluoroscopic control. Appropriational returnation accordant control of 100 mg/ rid under fluoroscopic control. Appropriational fluoroscopic table is titled into a 45° Trendelenburg position with the heaft flexed foil thucked) for about 2 mile to a 40° Trendelenburg position with the heaft flexed foil. The patient remains in a prone hanging-head position during transport to a General Electric Stock of 100 mg/ rid control remains in a prone hanging-head position during transport to a General Electric Stock of 100 mg/ rid control remains in a prone hanging-head position during transport to a General Electric Stock of 100 mg/ rid control remains in a prone hanging-head position during transport to a General Electric Stock of 100 mg/ rid control remains in a prone hanging-head position during transport to a General Electric Stock of 100 mg/ rid control remains in a prone hanging-head position stock of 100 mg/ rid control remains in a prone hanging-head position stock of 100 mg/ rid control remains in a prone hanging-head position stock of 100 mg/ rid control remains in a prone hanging-head position stock of 100 mg/ rid control remains in a prone hanging-head position stock of 100 mg/ rid control remains in a prone hanging-head position stock of 100 mg/ rid control remains in a prone hanging-head position stock of 100 mg/ rid control remains in a prone hanging-head position stock of 100 mg/ rid control remains in a prone hanging-head position stock of 100 mg/ rid control remains in a prone hanging-head position stock of 100 mg/ rid control remains in a prone hanging-head position stock of 100 mg/ rid control remains in a prone hanging-head position stock of 100 mg/ rid control remains in a prone hanging-head position stock of 100 mg/ rid control remains in a prone hanging-head position stock of 100 mg/ rid control remains in a prone hanging-head position stock of 100 mg/ rid control remains

During a 2 year ceriod, 78 CT cistemograms were oblahed in our radiology desurtement for a variety of indications (table 1). All cistemograms were reviewed in order to determine the appearance of the normal and abnormal brainstem. Symmetry of the brainstem and it surrounding cistems was noted. Where possible, the transverse diameters of the medula pons, and cerebral podundes, as well as the distance from the anterior ports to the tourt port, and cerebral podundes, as well as the distance from the anterior includes six internal ports, and cerebral podundes, as well as the distance from the anterior includes six internal five activacial masses (arachorid cyst, cholesteatoms, chordoms, typoglossal neuroma dim etastasis). The cistemographic distinction between these two groups was sought. It addition, a chart review was conducted for all patients who underwent CT cistemographic determine the incidence and severity of adverse symptoms attributable to the examina to determine the incidence and severity of adverse symptoms attributable to the examina.





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CT of the Lumbosacral Spine: Importance of Tomographic Planes Parallel to Vertebral End Plate

James C. Hirschy¹ William M. Leue² Walter H. Berninger² Richard H. Hamilton³ Gerald F. Abbott¹ An experimental computer program capable of reformatting stored display data from a CT scanner into frue cross-sectional images of the spine has been clinically tested over a 1 year perfort. With this program, tomographic planes exactly parallel to the markedly rotated or here scolled deformities. The reformatting control is a section of the markedly rotated or here scolled deformities. The reformatting control is a set either in the disroventral and medicialeral directions to compensate for brotosis or scollosis. The reformatting can also produce images in corroll and saxigital planes on sease other than true horizontal or vertical. The program has been used in the examination of 20 than true horizontal or vertical. The program has been used in the examination of 20 than the intervent of the program of the program has been used in the examination of 20 the intervent of the program o

The computed axial tomogram should be the ideal instrument for the examilation of the spine, particularly for the evaluation of the size and shape of this spinal canal and the intervertebral disc. However, several technical limitation have hindered its completely successful application and, in a recent report to Mankin and Teng [1], preoperative evaluation of the spinal canal by CT was described as unreliable compared with the mevolcram.

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A better solution is the digital projection radiograph (GE-Scout View) that can be viewed on the CT monitor. An electronically generated line can be precisely located on the digital radiograph and the CT scanner can be programmed to

since small abnormalities become lost in the summation of data from a thick slice [6–8]. The recent availability of 1.5–2.0 mm scan collimation has surmounted this obstacle.

A further problem has been the inability to align the plane of the cross section at right angles to the long axis of the spinal canal or parallel to the vertebral end plate (§). This problem is overcome in the upper four-fiths of the lumbar spine by stilling the garby. The digital radiograph can then be used to determine the desired angle of partry tilt or each axial size. Unfortunately, the tilt has been insolved to the control of the spinal control of the control o

scan plane parallel to the laterally tilted vertebrae.

These problems of tilt have been addressed by a computer program that allows

