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Celebrating 35 Years of the AJNR: May 1985 edition

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Celebrating 35 Years of the AJNR

May 1985 edition

Chymopapain Chemonucleolysis: Correlation of Diagnostic Radiographic Factors and Clinical Outcome

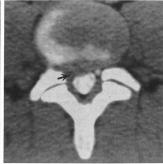
Lindell R. Gentry^{1,1} Charles M. Strother Patrick A. Turski Manucher J. Javid Joseph F. Sackett The branpeutic response to treatment of lumbar disk hernistion with chymopapial chemonucleophias is significantly influenced by the criteria used for patient selection. Although careful clinical selection of patients and cases the frequency of treatment failures one patients and on a chieve satisfactory relief of pain with chemonucleophysis. In at tion criteria and further reduce the failure rate of chemonucleophysis, a retrospective correlation of pertenentent radiographs and clinical response was made of 200 con security chemonucleophysis patients. Marked improvement in scalatic accurred in 178 3th higher response rate, however, in patients who had definite radiographic evidence or forced only the control of the

Chymopapain, a proteolytic enzyme derived from papaya latex, catalyzes the ragid hydrolysis of the chandronucoprotein part of the ruduels pulsous of this ragid hydrolysis of the chandronucoprotein part of the ruduels pulsous of the interventebral disk. In 1964, Smith [1] first demonstrated the possibility of using chymopapa in the enzymatically treat lambar disk hernalizations (chymopapan chemo nucleolysis). Clinical trials designed to establish the safety and efficacy of this procedure nucleoty forliewed.

procedure quickly followed.

By 1975, over 17,000 people had been treated with chymopapain chemonucle olysis in 75 centers [2, 3]. Wide variations were reported in the frequency osuccessful results, ranging from 50% to 80%, and controversy concerning it





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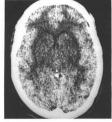
² Present address: Department of Radiology University of Iowa Hospitals and Clinics, 700 Conver. Invan. City. 18, 52942, Address reprint or

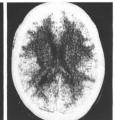
³ Division of Neurosurgery, University of Wiscon pospital and Clinics, Madison, WI 53792. JWR 6:311–320, May/June 1985 195–6108/85/0603–0311
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Computed Tomographic Changes of Hypertensive Encephalopathy

Karen L. Weingarten¹ Robert D. Zimmerman² Richard S. Pinto¹ Margaret A. Whelan¹ Computed tomographic (CT) scans w tensive encephalopathy, Hypertensive severe rise in blood pressure associa mental status, and focal neurologic de blood pressure. The systolic blood pressure affecting the superateriorial compartmen in eight. These changes received after the studied by follow-up CT. Permanent a patients. These abnormalities are correl tensive encephalopathy.

Hypertensive encephalopathy is an hypertension is associated initially will convulsions, stupor, and coma [1-4]. and renal failure are usually present seen after institution of antihypertens findings in 11 patients with hypertens to the pathogenesis of this condition.







Materials and Methods

The hospital records and CT scans of 11 patients with hypertensive encephalopathy from Monteflore Medical Center and New York University Medical Center were reviewed. In a cases, CT scans were obtained during the acute phase of blood pressure elevation. Six

usered and otherwip to femilie patients were 10–59 years old (mean, 46). The diagnosis of The six make and diagnosis of the six makes the six

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Results

The CT findings in hyperfensive encephalopathy can be divided into supraternois and infrastrontal abnormalities. All cases demonstrated supraternois all abnormalties in the acute stage of hyperfensive encephalopathy, characterized by edema dexpansion of the white matter, compression of the ventricles, and obliteration of suici and cistemal spaces (figs. 1–5). This diffuse white-matter edemar resolved after the blood pressure was lowered in all patients in whom follow-up scans were oblated (figs. 2–5). Other supraternorial abnormalities observed during the acute phase of the disease were ganglionic edema in two patients (fig. 1). hiblialmic