the ability of cultured fibroblasts to esterify exogenously supplied cholesterol. This deficiency may be assayed in confirmation of the diagnosis when presentation is atypical. (Fink JK et al. Clinical spectrum of Niemann-Pick disease type C. <u>Neurology</u> August 1989; <u>39</u>: 1040-1049.

Mild intellectual impairment presenting as poor COMMENT. school performance was the most common initial neurologic abnormality. Additional presenting signs included ataxia. dysarthria, and impaired vertical gaze. Within three years of the initial deficit most of the patients had cognitive impairment, abnormal vertical gaze and ataxia. Saccadic paresis was manifested by a complaint of difficulty in reading or in descending stairs. Hepatosplenomegaly was first noted at varying ages from birth to 24 years with a mean age of six years. It preceded neurological abnormalities in one-half the patients and was found only in the early onset rapidly progressive group.

MITOCHONDRIAL ALTERATIONS IN RETT SYNDROME

Muscle biopsy findings in two patients with Rett syndrome are reported from the Departments of Obstetrics/Gynecology, Pediatrics, and Pathology, Medical College of Ohio, Toledo, OH. Muscle biopsy was performed at 32 months of age and at 3 years 7 months of age. Light microscopy revealed fibers of uniform size with normal histochemistry. Electron microscopy revealed mitochondrial alterations including distention, vacuolation, and membranous changes. (Ruch A. Mitochondrial alterations in Rett syndrome. Pediatr Neurol Sept/Oct 1989; 5:320-3).

<u>CUMMENT</u>. Abnormal mitochondria have been reported previously in the muscle biopsies of two patients with Rett syndrome (Reg-Olofsson O et al. <u>Brain Dev</u> 1988; 10:260). The findings presented in patients with <u>Rett</u> syndrome did not correspond to the typical "ragged red" fibers found in mitochondrial myopathies. There are no biochemical or pathological findings specific to Rett syndrome but further studies of mitochondrial functioning in muscle may be warranted.

INFANTILE MITOCHONDRIAL DISEASE

A detailed clinical, pathologic, biochemical, and genetic analysis of a case of lethal infantile mitochondrial disease is reported from the Departments of Biochemistry, Pediatrics, Neurology and Nephrology, Emory University School of Medicine, Atlanta, GA. During the first three months of life the child showed increasing lethargy, hypotonia, difficulty in feeding and growth retardation. On admission at three months of age there was respiratory failure, bradycardia, hypotension, and severe lactic acidosis. Over the next 21 days the condition rapidly deteriorated with a hypertrophic cardiomyopathy, hepatic dysfunction, progressive and generalized seizure activity. The patient died with bradycardia and hypotension at four months of age. There were abnormalities in the striated muscles, smooth muscle, heart and liver but not in the central nervous system. Biochemical analysis revealed a combined complex I and IV