

# Abstract

Muscle Nerve. 2005 Feb;31(2):260-5.

## Reversible inflammatory and vacuolar myopathy with vitamin E deficiency in celiac disease.

Kleopa KA, Kyriacou K, Zamba-Papanicolaou E, Kyriakides T.

Department of Clinical Neurosciences, Cyprus Institute of Neurology and Genetics, P.O. Box 23462, Nicosia, Cyprus.

**BACKGROUND:** We report a patient with late-onset celiac disease and neurological manifestations including myopathy, polyneuropathy, and ataxia.

**FINDINGS:** Laboratory investigations showed anti-gliadin antibodies and severe vitamin E deficiency. Muscle biopsy revealed inflammatory infiltrates and rimmed vacuoles, similar to those found in inclusion-body myositis. A gluten-free diet and vitamin E supplementation reversed both the clinical neurological manifestations and the abnormalities in the muscle biopsy. Anti-gliadin antibodies were no longer present.

**CONCLUSION:** This case illustrates the spectrum of neurological complications of celiac disease and documents the occurrence of reversible pathology resembling inclusion-body myopathy in the muscle.

PMID: 15389648

