Painful neuropathy due to intraneural leukemic spread in a patient with acute myeloid leukemia

A 33-year-old man with acute myelogenous leukemia developed a rapidly progressive painful neuropathy with symmetric sensorimotor and autonomic deficits 7 weeks after chemotherapy. Nerve conduction studies showed axonal sensorimotor neuropathy. Because of the rapidly progressive course, a sural nerve biopsy was performed, which showed intraneural leukemic infiltrates (figure). This case illustrates a rare but important differential diagnosis in patients with peripheral neuropathy and hematologic malignancies.\(^1^,2\) The diagnosis would have been missed without a sural nerve biopsy, and aggressive chemotherapy might have been withheld owing to presumed toxic neuropathy as a result of previous chemotherapy.

**REFERENCES**

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*Neurology* 2007;69;707
DOI 10.1212/01.wnl.0000275547.39894.a6

This information is current as of August 13, 2007