

## Isolated Ocular Relapse in Acute Lymphoblastic Leukemia

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### Clinical Image

A 12-year-old girl with a history of acute lymphoblastic leukemia, but without previous evidence of central nervous system involvement, presented with sudden, painless loss of vision in both eyes 3 years after complete remission. Her best-corrected visual acuity was 1/6 in the right eye and 2/6 in the left eye. Ophthalmic examination of the anterior segment was unremarkable. Ophthalmoscopy showed disc swelling, leukemic infiltration with retinal vessels engorged and dot-shape hemorrhages in both eyes (Figure 1). Computed tomography revealed a bilateral swollen



Figure 1

optic nerve. Bone marrow aspiration and lumbar puncture revealed complete remission of leukemia. After two weeks, visual acuity decreased to no-light perception in the right eye and 1/6 in the left eye and the girl's general condition deteriorated rapidly. Magnetic resonance imaging of the orbits showed enhanced soft tissue component wrapping around the optic nerve bilaterally. The patient died of leukemia relapse and multiple organ failure 2 months later. Postmortem histopathology showed diffuse bilateral infiltration, with precursor B-cell acute lymphoblastic leukemia (Figure 2) hematoxylin and eosin.

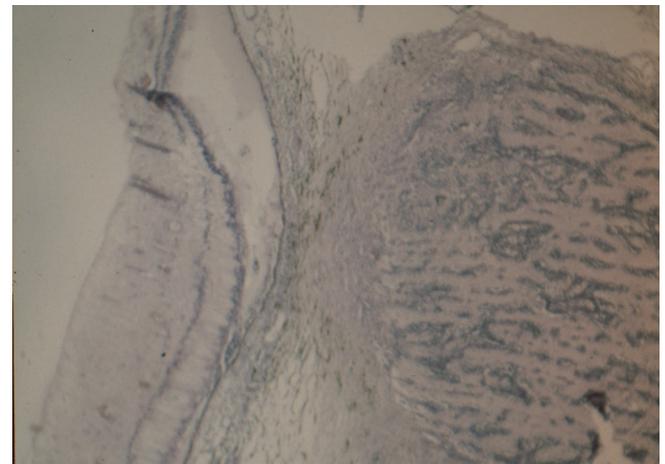


Figure 2

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