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**NeuroImages**

**Figure.** (A) Marked Kayser-Fleischer corneal ring superiorly and inferiorly. (B) Same eye 12 years after successful treatment with D-penicillamine. Note marked regression of Kayser-Fleischer corneal ring, which has virtually disappeared inferiorly. Note two unrelated small iris nevi of similar color at 4 and 7:30 on the iris (arrowheads).

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**Kayser-Fleischer corneal ring**

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A 26-year-old man was diagnosed with Wilson’s disease in 1981. D-penicillamine treatment was started but discontinued because of increased tremor. We first treated the patient in our ICU in 1987 for acute neurologic deterioration after mild brain injury caused by a fall. On admission, he was stuporous and unable to communicate verbally. We observed vertical gaze palsy, an increase in muscle tone, and a prominent circular Kayser-Fleischer corneal ring (A). The laboratory findings revealed low serum copper (400 µg/L), low ceruloplasmin (7 mg/dL), and elevated 24-hour urine copper (1403 µg/1800 mL urine/day). Treatment with D-penicillamine was reinstated, along with physiotherapy and ergotherapy. The patient, now 44, is ambulatory and was recently readmitted for follow-up. Mild dysarthria, mild bilateral dysdiadochokinesia, and mildly elevated muscle tone of all four limbs were found, and the Kayser-Fleischer corneal ring had markedly regressed (B). Serum copper (203 µg/L) and ceruloplasmin (3.9 mg/dL) were diminished. D-penicillamine will be continued.

The presence of a Kayser-Fleischer corneal ring may correlate with treatment and markedly regress after successful decoppering.


Kayser-Fleischer corneal ring
Neurology 2000;54;1839
DOI 10.1212/WNL.54.9.1839

This information is current as of May 9, 2000

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