

Special Article - Ophthalmology: Clinical Cases and Images

KF Ring in Wilson's Disease

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Clinical Image

A 16 year old female patient has presented with pain in the tooth since three days. Intra oral examination revealed grossly decayed tooth. On general physical examination a dark ring was seen encircling the iris of both right and left eye (Kayser-Fleischer ring). (Figure 1 and 2). Lab investigation report revealed serum copper – 114mg/dl, urinary copper – 30mg/dl and ceruloplasmin – 20mg/dl. MRI revealed abnormal signal in basal ganglion. Patient was diagnosed as having Wilson's disease and is being treated with Penicillamine, Pictane and Zinc medications for life. The dental treatment of the patient was done uneventfully. Kayser-Fleischer ring is a brownish-yellow annular deposition of copper located in the periphery (limbus) of the cornea (Descemet's membrane) due to abnormal copper handling by the liver and with abnormalities of the basal ganglia of the brain, liver cirrhosis and splenomegally.

