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# Electric Shock Induced Capsular Cataract: Crumpled Tissue Paper Appearance

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#### Abstract

Electric shock injuries can result in various ocular complications, cataracts being the most common. We present a unique case of a 22-year-old male who experienced progressive bilateral visual blurring following accidental electric shock. Slit lamp examination revealed bilateral anterior capsular opacification with a distinctive crumpled tissue paper-like appearance on retro-illumination. Systemic examination confirmed scalp and leg entry and exit wounds consistent with electrocution history.

Keywords: Environmental Impact; Health Hazards; Material Safety Data Sheets (MSDS)

### **Case Report**

A 22-year-old male presented with progressive blurring of vision in both eyes since 3 months following an electric shock injury a year ago. The best corrected visual acuity were 20/120 and 20/200 in right and left eye respectively. On slit lamp evaluation, the patient had anterior capsular opacification in both eyes [Figure 1 A,B], which on retro-illumination gave a crumpled tissue paper like appearance [Figure 1C,D]. Rest of the ocular examination showed no abnormality. On systemic examination, entry and exit wounds were found in the scalp and legs [Figure 2 A,B], which corroborated the history of electrocution. Development of cataract after electric shock is a known entity, occurring mostly after a latent period [1-3].

Our case report has unique description of anterior capsular opacification as "crumpled tissue paper" appearance and additionally the documented 1 year latency period with images has not been reported earlier which distinguishes our case report from the existing literature.



Figure 1: (A,B) - Anterior capsular opacification following electric shock injury in the right eye and left eye respectively. (C,D) - Crumpled tissue paper appearance on retro-illumination in the right eye and left eye respectively.



**Figure 2:** (A) - Site of entry shows, localised alopecia and scar on the scalp. (B) Exit wounds on back of the legs, showing scarred skin.

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