A 5-year-old typically developing boy presented with a 4-week history of moving his head to follow objects due to inability to move his eyes side to side. His neurologic examination was normal except for this inability to voluntarily move his eyes horizontally, consistent with oculomotor apraxia (Video 1). MRI of the brain showed pontine mass suggestive of diffuse high-grade glioma (DIPG) (Figure). The patient underwent radiotherapy, and a ventriculoperitoneal shunt was placed for hydrocephalus.

In pediatric patients, oculomotor apraxia may be seen in ataxia with oculomotor apraxia, Cogan syndrome, Joubert syndrome, and ataxia telangiectasia. In our case, the brainstem tumor disrupted the structural connectivity between the frontal eye fields and oculomotor network including the pons, the superior colliculus, and caudate nucleus leading to oculomotor apraxia. DIPG is an aggressive pediatric tumor with a median survival of 9–12 months. It classically presents with cranial nerve palsies, long tract signs, and ataxia.

**Author Contributions**
F. Thabet: drafting/revision of the manuscript for content, including medical writing for content. Mohammed Sawahreh: drafting/revision of the manuscript for content, including medical writing for content. D. Thaher: major role in the acquisition of data. F.A. Maadid: major role in the acquisition of data.

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References
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