Thirty-seven-year old male patient applied with the complaint of photophobia and having difficulties in reading. Both pupils were found to be dilated and unreactive to light, but responsive to accommodation. The case was diagnosed with bilateral tonic pupil following neurological, radiological and laboratory evaluations. Tonic pupil should be kept in mind in eyes with light-near dissociation. In contrast to idiopathic tonic pupils, bilateral tonic pupils with anisocoria of less than 1 mm usually indicate a generalized peripheral or autonomic neuropathy, paraneoplastic syndrome, or connective tissue disease. Anti-ganglioside antibodies and antineuronal antibodies, such as anti-Hu, anti-Yo, and anti-Ri, should be tested to identify the etiology.