

**Supplementary Table 2. Differential Diagnosis and Laboratory Workup of Steroid Responsive Painful Ophthalmoplegia**

Differential Diagnosis <sup>9, 10</sup>	Proposed Laboratory Work-up
<ul style="list-style-type: none"> <li>• CNS infections/meningitis</li> <li>• Carotid-cavernous fistula</li> <li>• Granulomatosis with polyangiitis</li> <li>• Ischemic cranial neuropathy</li> <li>• Parasellar neoplasm</li> <li>• Thyroid eye disease</li> <li>• Sarcoidosis</li> <li>• Lymphoma/Leukemia</li> <li>• Ophthalmoplegic Migraine</li> <li>• Sellar and parasellar infections</li> <li>• IgG4-related disease</li> </ul>	<ul style="list-style-type: none"> <li>• CBC with peripheral smear, CRP, ESR, SPEP</li> <li>• ANA, anti-dsDNA, C3, C4</li> <li>• cANCA, pANCA, IgG4</li> <li>• Syphilis serologies</li> <li>• anti-cardiolipin, cryoglobulin</li> <li>• Quantiferon gold, HIV testing</li> <li>• EBV PCR, HSV1/HSV2 PCR</li> <li>• Cryptococcal Ag, histoplasma Ag</li> <li>• CSF analysis, culture, Gram stain fungal stain</li> <li>• CSF enterovirus, M. tuberculosis PCR</li> <li>• Thyroid function studies and antibodies</li> </ul>

CNS=central nervous system; CBC=complete blood count; CRP=C-reactive protein; ESR=erythrocyte sedimentation rate; SPEP=serum protein electrophoresis; ANA=antinuclear antibody; dsDNA=double-stranded DNA; cANCA=cytoplasmic antineutrophil cytoplasmic antibodies; pANCA=peripheral antineutrophil cytoplasmic antibodies; EBV=Epstein-Barr virus; PCR=polymerase chain reaction; HSV=herpes simplex virus; Ag=antigen; CSF=cerebrospinal fluid; Ig4=immunoglobulin 4