A 32-year-old man with a pituitary tumor had bitemporal hemianopia (figure 1). Peripapillary retinal nerve fiber layer (RNFL) in optical coherence tomography (OCT) was reduced, which corresponded to visual field defects. OCT angiography showed a dropout of capillaries and correlated well with RNFL loss in the OCT (figure 2). Compressive optic neuropathy may be associated with loss of the retinal ganglion cell layer and impaired peripapillary retinal perfusion. OCT angiography may be helpful to detect various optic neuropathies and in analyzing the vascular status of the optic nerve head and RNFL.1

Asymmetric bitemporal hemianopia.

Thinning of peripapillary retinal nerve fiber layer (RNFL) was shown in the deviation map (color column). Although deep capillary networks including outer retina, choroid, and lamina cribrosa are relatively intact, a density of inner capillaries decreased significantly (asterisks). AIP = average intensity projection; ILM = internal limiting membrane; RPCP = radial peripapillary capillary plexus.
Optical coherence tomography angiography in pituitary tumor
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Neurology 2017;89;1307-1308
DOI 10.1212/WNL.0000000000004397

This information is current as of September 18, 2017

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