

## Author Response: Gap in Capillary Perfusion on Optical Coherence Tomography Angiography

We appreciate the valuable comments from Huang and Sha<sup>1</sup> regarding our recent article.<sup>2</sup> Their comments raise an important point about image artifacts in optical coherence tomography angiography (OCTA).

Image artifacts in OCTA are common and physicians should be aware of this problem.<sup>3</sup> As reported elsewhere, it is difficult to evaluate precise vascular abnormalities when macular edema is present.<sup>4</sup> Thus, in the current study, we described our OCTA protocol in cases in which macular edema persisted.<sup>2</sup> In eyes with persistent macular edema, OCTA was performed within 2 months after the last anti-VEGF treatment, when the macular edema was suppressed temporarily. Cases with considerable macular edema after anti-VEGF treatment were excluded. Therefore, we believe that capillary loss in the deep capillary plexus was not an artifact.

Huang and Sha<sup>1</sup> mentioned that a prospective and longitudinal study is important to gain an understanding of the pathogenesis of branch retinal vein occlusion, a statement with which we agree heartily. A prospective study with a larger number of patients is currently underway. We are looking forward to reporting our results in the near future.

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### References

1. Huang W, Sha X. Gap in capillary perfusion on optical coherence tomography angiography. *Invest Ophthalmol Vis Sci.* 2017;58:3044.
2. Tsuboi K, Ishida Y, Kamei M. Gap in capillary perfusion on optical coherence tomography angiography associated with persistent macular edema in branch retinal vein occlusion. *Invest Ophthalmol Vis Sci.* 2017;58:2038-2043.
3. Spaide RF, Fujimoto JG, Waheed NK. Image artifacts in optical coherence tomography angiography. *Retina.* 2015;35:2163-2180.
4. Suzuki N, Hirano Y, Yoshida M, et al. Microvascular abnormalities on optical coherence tomography angiography in macular edema associated with branch retinal vein occlusion. *Am J Ophthalmol.* 2016;161:126-132.

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