

Response to comments on: Monocyte to high-density lipoprotein and neutrophil-to-lymphocyte ratios in patients with acute central serous chorioretinopathy

Dear Editor,

We'd like to thank Jain *et al.*^[1] contributions to our manuscript. We included 38 patients with acute central serous chorioretinopathy (CSC) with mean age of 36 years. In CSC patients, monocyte to high-density lipoprotein (HDL) ratio (MHR) was found to be higher when compared to healthy controls.^[2] In the patients, MHR elevation was not assessed regarding coronary artery diseases. However, CSC might be considered as a potential risk factor for coronary artery disease in men. The cumulative incidence of 5-years coronary heart disease was found to be approximately 2-folds in CSC patients when compared to those without CSC.^[3] In addition, it was reported that CSC is associated with type A personality^[4] which could increase risk for cardiovascular disease even in younger ages.^[5] Furthermore, Caccavele *et al.* reported that low-dose aspirin treatment might lead rapid visual rehabilitation and lower recurrence rate in patients with CSC. Authors suggested it is associated with platelet aggregation in choriocapillaris.^[6]

When cytokines are considered in CSC, Karska-Basta *et al.*^[7] reported that plasma cytokine levels including IL-6, IL-10, IL-12 p70 were significantly increased in CSC. Authors suggested it may account for retinal and choroidal hyper-permeability. They also suggested that IL-6 is a key cytokine in the pathogenesis of CSC and there is a possible association between the inflammatory response in CSC and systemic vascular changes. Persistent increase in plasma cytokine levels were found in inflammatory disorders, history of cardiovascular disease, atherosclerosis, abdominal aortic aneurysm, varicose vein and systemic hypertension.^[8] Future prospective studies may provide more comprehensive data in this issue. We'd like to thank your kind interest in our manuscript and we welcome further comments and suggestions.

Financial support and sponsorship

Nil.

Conflicts of interest

There are no conflicts of interest.

**Ender Sirakaya, Zeynep Duru, Bekir Kuçuk,
Necati Duru**

Department of Ophthalmology, The Kayseri City Hospital,
Kayseri, Turkey

Correspondence to: Dr. Ender Sirakaya,
Department of Ophthalmology,
The Kayseri City Hospital, Kayseri, Turkey.
E-mail: esirakaya@gmail.com

References

- Jain M, Gerges F. Comments on: Monocyte to high-density lipoprotein ratio in central serous chorioretinopathy: A biomarker of inflammation or epiphenomenon. *Indian J Ophthalmol* 2021;69:471.
- Sirakaya E, Duru Z, Kuçuk B, Duru N. Monocyte to high-density lipoprotein and neutrophil-to-lymphocyte ratios in patients with acute central serous chorioretinopathy. *Indian J Ophthalmol* 2020;68:854-8.
- Chen SN, Chen YC, Lian I. Increased risk of coronary heart disease in male patients with central serous chorioretinopathy: Results of a population-based cohort study. *Br J Ophthalmol* 2014;98:110-4.
- Yannuzzi LA. Type A behavior and central serous chorioretinopathy. *Retina* 2012;32(Suppl 1):709.
- Pollock BD, Chen W, Harville EW, Bazzano LA. Associations between hunter type A/B personality and cardiovascular risk factors from adolescence through young adulthood. *Int J Behav Med* 2017;24:593-601.
- Caccavele A, Romanazzi F, Imparato M, Negri A, Morano A, Ferentini F. Low-dose aspirin as treatment for central serous chorioretinopathy. *Clin Ophthalmol* 2010;4:899-903.
- Karska-Basta I, Pocij-Marciak W, Chrzęszcz M, Kubicka-Trzaska A, Romanowska-Dixon B, Sanak M. Altered plasma cytokine levels in acute and chronic central serous chorioretinopathy. *Acta Ophthalmol* 2020. doi: 10.1111/aos.14547.
- Wenzel U, Turner JE, Krebs C, Kurts C, Harrison DG, Ehmke H. Immune mechanisms in arterial hypertension. *J Am Soc Nephrol* 2016;27:677-86.

This is an open access journal, and articles are distributed under the terms of the Creative Commons Attribution-NonCommercial-ShareAlike 4.0 License, which allows others to remix, tweak, and build upon the work non-commercially, as long as appropriate credit is given and the new creations are licensed under the identical terms.

| Access this article online | |
|--|---------------------------------|
| Quick Response Code: | Website: www.ijo.in |
|  | DOI: 10.4103/ijo.IJO_3383_20 |
| | |

Cite this article as: Sirakaya E, Duru Z, Kuçuk B, Duru N. Response to comments on: Monocyte to high-density lipoprotein and neutrophil-to-lymphocyte ratios in patients with acute central serous chorioretinopathy. *Indian J Ophthalmol* 2021;69:472.

© 2021 Indian Journal of Ophthalmology | Published by Wolters Kluwer - Medknow