



## Letter to the Editor re: “Refractive and Vision Status in Down Syndrome: A Comparative Study”

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**Keywords:** Down syndrome, refractive, vision

Dear editor,

We would like to share our ideas on the publication “Refractive and Vision Status in Down Syndrome: A Comparative Study.”<sup>1</sup> Hashemi et al.<sup>1</sup> concluded that “*In DS patients, the prevalence rates of refractive errors, amblyopia, and visual impairment are higher than those in non-DS individuals.*” Regarding DS and refractive/vision problems, there should be a hypothesis for the clinical association. How DS might contribute to ocular problems should be proposed. In a recent report, the possible mechanism was cerebral visual impairment, not an intraocular problem.<sup>2</sup> This might not be concluded based on the findings of the present study. An important concern is about the control group. The control group is only a group of non-DS cases but not healthy controls. For example, “candidates for refractive surgery” must have an ocular problem. Additionally, Hashemi et al.<sup>1</sup> mentioned “age- and gender-matched normal controls,” but there were unequal numbers of subjects in the patient and control groups. Hence, there might be a methodological flaw and bias.

**Peer-review:** Internally peer reviewed.

### Authorship Contributions

Concept: P.S., V.W., Design: P.S., V.W., Data Collection or Processing: P.S., V.W., Analysis or Interpretation: P.S., V.W., Literature Search: P.S., V.W., Writing: P.S., V.W.

**Conflict of Interest:** No conflict of interest was declared by the authors.

**Financial Disclosure:** The authors declared that this study received no financial support.

### References

1. Hashemi H, Mehravaran S, Asgari S, Dehghanian Nasrabadi F. Refractive and Vision Status in Down Syndrome: A Comparative Study. *Turk J Ophthalmol.* 2021;51:199-205.
2. Wilton GJ, Woodhouse R, Vinuela-Navarro V, England R, Woodhouse JM. Behavioural Features of Cerebral Visual Impairment Are Common in Children with Down Syndrome. *Front Hum Neurosci.* 2021;15:673342.

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**Received:** 01.09.2021 **Accepted:** 09.03.2022

**Cite this article as:** Sookaromdee P, Wiwanitkit V. Letter to the Editor re: “Refractive and Vision Status in Down Syndrome: A Comparative Study”. *Turk J Ophthalmol* 2022;52:220

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