

## Systemic Factors, Intraocular Lens, and Ocular Abnormalities in Patients with Intraocular Lens Glistening at a Tertiary Hospital in Semarang

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**Abstract :** Purpose: This study describes systemic factors, intraocular lens (IOL), and ocular abnormalities in patients with IOL glistening at a tertiary hospital in Semarang. Methods: A retrospective, with a descriptive approach on patients with IOL glistening who visited the eye clinic between August 2019 to June 2023. Results: Twenty-five patients were examined; 11 patients (44%) had IOL glistening in their right eye, 4 patients (16%) in their left eye, and 10 patients (40%) in both eyes. The gender of patients consisted of 12 male patients (48%) and 13 female patients (52%). The median age of the patients was 68 years. The mean onset was 4.44 years after the first cataract surgery. Hypertension was found in 13 patients (52%), and diabetes was found in 9 patients (36%). Nine patients (36%) were identified with a foldable IOL with a closed loop design, and 1 patient (4%) with a PMMA IOL with an iris-fixated IOL design, while 15 other patients' IOL were unrecorded. Glaucoma was found in 3 patients (12%). Conclusions: The result of this study showed that more than half of the patients were hypertensive, and some were glaucomatous, which had been discussed relevant in previous studies. Most IOL that could be identified was foldable IOL with a closed loop design. To our knowledge, the design of an IOL to glistening had never been explored. A longer study involving larger subjects is needed to better describe the systemic factors, IOL, and ocular abnormalities in patients with IOL glistening.

**Keywords :** glistening, intraocular lens, foldable IOL, PMMA IOL

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