

European Society of Ophthalmology



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Project Abstract

Laser-induced ocular disorders: a central German registration of hand-held optical radiation sources-induced ocular injuries

Purpose: Hand-held optical radiation sources (namely “laser”) are sold increasingly on the international market. Thus, the number of their accidental or intentionally improper use is increasing with consecutively increase of laser-induced ocular injuries. The injury pattern ranges between glare and severe ocular injuries with irreversible loss of visual acuity. Depending on the wavelength, energy and duration of the pulse, the injury pattern (e.g. cornea, retina) and patients’ symptoms differ. As laser-induced ocular disorders are neither notifiable, nor do have a distinct number in the International Statistical Classification of Diseases and Related Health Problems (ICD), the exact number is elusive. Registration of these data would be the basis for an adequate adjustment of legal regulations in order to ensure public safety. This project aims to establish and conduct a German survey of laser-induced ocular disorders and initiate a lasting integration of this data collection within novel and/or existing platforms in Germany.

Methods: 1st phase: information exchange with experts, who work significantly within the field of hand-held optical radiation sources; 2nd phase: development of a specific spreadsheet for data acquisition; 3rd phase: organization of data collection on a national level; 4th phase: start of integration of this data collection within a novel platform or implementation within existing structures in Germany.

Results: The results will be presented, when available.

Conclusion: The conclusion will be presented, when available.