

# European Society of Ophthalmology



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## **Project Abstract**

*Please include the headings if appropriate: **Title, Purpose, Methods, Results and Conclusion***

**Title of Project: Enucleation in Iceland 2005-2018. Study of a defined population**

**Purpose:** *To determine incidence rate for enucleation and causative diagnosis in Iceland in a defined population during the years 2005-2018 and compare the results to previous studies done in Iceland.*

**Methods:** *A retrospective population-based incidence study in Iceland. Medical records were reviewed of patients who were enucleated from January 2005 through December 2018. Annually updated Icelandic census was used as a denominator data.*

**Results:**

*Fifty-five eyes were enucleated during 2005-2018. Eviscerations and exenterations were excluded. The mean annual age adjusted incidence rate was 1.23 enucleations per 100.000 population in comparison with 1.48 for the time period 1992-2004 (Geirsdottir et al 2014) and 2.66 for the time period 1964-1991 (Sigurdsson et al 1998). The median age of enucleation was 66 years (range 3-96 years) and the incidence increased with age ( $p=0.0002$ ). The most common indications for enucleation in our study were ocular malignancy (54%), blind painful eye (42%) and acute trauma (4%). Confirmed choroidal melanoma was 44% and was the most common ocular malignancy (80%).*

**Conclusion:**

*The mean annual incidence of enucleation in Iceland has decreased compared to previous studies. The incidence for ocular malignancy has increased, blind painful eye is fairly stable and traumatic lesions have decreased.*