**Title:** **An overview of the genetic risk factors and outcomes in childhood eye cancers**

**Abstract**

**Introduction**

This section provides an introduction to the importance of understanding the genetic basis of childhood eye cancers including retinoblastoma and other ocular malignancies

* Types of Malignant Eye Cancers
  + Retinoblastoma
  + Medulloepithelioma
  + Rhabdomyosarcoma
  + Optic nerve glioma (part of neurofibromatosis)
  + Xero derma pigmentosa
  + Uveal Melanoma
  + Ocular Surface Squamous Neoplasia
  + Plexiform Neurofibroma
  + Secondary Eye Cancers
* Epidemiology/pathophysiology

**Genetic Variants and Risk Factors in Childhood Eye Cancers**

An overview of genetic mutations and alterations associated with childhood eye cancers, including retinoblastoma and other ocular malignancies, is presented in this section

* Rare & common variants/GWAS/NGS

**Clinical Applications and Outcomes**

This section discusses the impact of genetic findings on clinical applications including risk assessment, early detection, surgical management, and survival rate of children with eye cancers.

**Discussion/Conclusion**

**Schematic Charts and Tables:**

Types of malignant eye cancers schematic flow chart

Pathophysiology of malignant eye cancers schematic flow chart

GWAS Table (SNP ID/G Coordinates/Alleles/MAF Frequency/p value/Effect Size/Reference)

NGS Table (SNP ID/G Coordinates/Gene ID/Variant Type/Reference)

**References**