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Intravitreal chemotherapy for vitreous disease in retinoblastoma - techniques and outcomes

Abstract

Retinoblastoma, the commonest intraocular cancer in children, becomes very difficult to treat if it involves the vitreous cavity. Drug delivery to the vitreous cavity through the most commonly used treatment modalities is often not sufficient to deal with the presence of vitreous disease.

Intravitreal chemotherapeutic injections are an effective way to deal with this by delivering high concentration of drugs locally into the vitreous cavity. However, this needs to be done according to strict protocols as the injected drugs can have significant intraocular adverse effects and through special injection techniques that ensure safety for the patient and prevent major complications like extraocular tumour spread through the injection needle track.

This clinical observership is being undertaken to learn in greater depth about the specific techniques of intravitreal chemotherapeutic injections for vitreous disease in retinoblastoma patients and the treatment outcomes for treated vitreous disease from this specific intervention.