Brief look at the Eye Neoplasm concept

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INTRODUCTION

 \mathbf{E}_{ye} neoplasms can affect all parts of the eye, and can be a benign tumor or a malignant tumor (cancer). Eye cancers can be primary (starts within the eye) or metastatic cancer (spread to the eye from another organ). The two most common cancers that spread to the eye from another organ are breast cancer and lung cancer. Other less common sites of origin include the prostate, kidney, thyroid, skin, colon and blood or bone marrow. Malignant, the most common eyelid tumor is called basal cell carcinoma. This tumor can grow around the eye but rarely spreads to other parts of the body. Other types of common eyelid cancers include squamous carcinoma, sebaceous carcinoma and malignant melanoma. The most common orbital malignancy is orbital lymphoma. This tumor can be diagnosed by biopsy with histopathology and immuno histochemical Most patients with orbital lymphoma analysis. can be offered chemotherapy or radiation therapy.

METHOD

Adults, the most common malignant primary intraocular tumour in adults is unveiling melanoma. These tumors can occur in the choroid, iris and culinary body. The latter are sometimes called iris or culinary. The next most common is primary intraocular lymphoma (PIOL) which is usually non-Hodgkin, large cell lymphoma of the B-cell type, although T cell lymphomas have also been described.

Children, The most common malignant intraocular tumor in children are retinoblastoma, affecting approximately. Early detection has allowed for cures exceeding large percentages, the second most common is medulloepithelioma (also called diktyoma) which can occur in the culinary body and the uvea of the eye.

Benign, Orbital dermoid cysts are benign choristomas which are typically found at the junction of sutures, most commonly at the fronto-zygomatic suture. Large deep orbital dermoid cysts can cause pressure effects on the muscles and optic nerve, leading to diplopia and loss of vision. Signs and symptoms can be seen as Melanomas (choroid, culinary body and unveil) -In the early stages there may be no symptoms (the person does not know there is a tumor until an ophthalmologist or optometrist looks into the eye with an ophthalmoscope during a routine test). As the tumor grows, symptoms can be blurred vision, decreased vision, double vision, eventual vision loss and if they continue to grow the tumor can break past the retina causing retinal detachment. Sometimes the tumor can be visible through the pupil.

TREATMENT

Radiotherapy - The ophthalmologist decides in conjunction with the radiation oncologist which type of radiation therapy is most suitable, based on size and location of the tumor. Today, modern radiation treatment modalities, such as proton therapy, are likely to be chosen, for providing superior accuracy in dose delivery, helping to spare healthy tissue and the sensitive optic nerves.

Nucleation of the eye - Removal of the eye, but the muscles and eyelids are left intact. An implant is inserted, then the person wears a conformer shield and later the person will have their prosthesis made and fitted (the prosthesis is made by an oculars and is made to look like the person's real eye)

- Evisceration Removal of the eye contents, leaving the sclera or the white part of the eye.
- Exoneration Removal of the eye, all orbital contents, which can involve the eyelids as well. A special prosthesis is made to cover the defect and improve appearance.
- Iridectomise Removal of the affected piece of the iris
- Thyroidectomy Removal of the choroid layer (the vascular tissue sandwiched between the sclera and the retina)
- Iridocyclectomy Removal of the iris plus the culinary body muscle.
- Eye wall resection Cutting into the eye to remove a tumor e.g. melanoma. This operation can be quite difficult to perform.

CONCLUSION

A nevus is a benign, freckle in the eye. These should be checked out and regular checks on the eye done to ensure it have not turned into a melanoma. Iris and conjunctiva tumors (melanomas) - Present as a dark spot. Any spot which continues to grow on the iris and the conjunctiva should be checked out. Retinoblastoma - Strabismus (crossed eyes); a whitish or yellowish glow through the pupil, decreasing/loss of vision, sometimes and the eye may be red and painful. Retinoblastoma can occur in one or both eyes. This tumor occurs in babies and young children. It is called RB for short. Check photographs, normal healthy eyes would have the red eye reflex, but a white/yellow dot instead of the red eye reflex can indicate a tumor or some other kind of eye disease. Any photos of child/children which have a white/yellow dot instead of the red eye reflex should be evaluated by an eye doctor.

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