THE CHILD'S EYE

What is different about a child's eye?

Although structures in the child's eye are similar to that in adults, the visual pathways continue to develop in a child. Hence, any obstruction to vision at a young age can cause permanent damage to the system that cannot be corrected later. Since small children often may not notice such changes, it is very important that all children undergo a screening eye exam at an early age.

What are the common problems in a child's eye?

A common problem is a refractive error - high myopia, hyperopia, or astigmatism may exist in one or both eyes, especially if these are also present in the parent. These may be associated with mislignment of the eyes, or aquint, which can however, also exist by itslef. Other problems can be structural cataracts, glaucoma, corneal or retinal disease, and these may be present from birth. A rare but very serious problem is a tumor of the retina - retinoblastoma. If the normally black pupil appears white in the eye of a child, please arrange for an immediate eye exam, as also in the case of premature births.

What is a 'lazy eye'?

Amblyopia, also known as lazy eye is reduced vision as the brain does not fully acknowledge the images seen by the amblyopic eye. This almost always affects only one eye but rarely both eyes can be involved. A simple vision screening test can detect this condition, and should be performed in all children since ambloypia is best treated in the early stages.

What is a Squint?

Strabismus of squint is a vision condition in which a child connot align both eyes simultanelusly. One or both of the eys may turn in, out, up, or down, An eye turn may be constant (when the eye turns all of the itme") or intermittent (turning only some of the time, such as, under stressful situations or when ill). Whether constant or intermittent, strabismus always requires appropriate evaluation and treatment. Children do not outgrow strabismus.

What is nystagmus?

Nystagmus is an involuntry rhythmic shaking or wobbling of the eyes. The eyes move constantly in various directions, although horizontal movements are the most common. The presence of nystagmus in a child is often an indication of vison problems. Treatment will depend on the cause.



Sometimes, the presence of a nystagmus can indicate neurological dysfunction, and rarely, it can be side effect of medication use.

How can these condions be detected?

Children may not complain of problem, and a detailed examination is needed. In infants, the examination is done under general anaesthesia. Parents may notice peculiar head posturing, constant side to side eye movement, squinting, sitting very close to the TV, or a white reflex in the pupil. The eye exam includes assessment of vision, special tests for stereopsis, (ability to use both eyes simultaneously), eye alignment, pressure and thorough examination of the front and back of the eyes.

How can these conditions be treated?

If a refractive error is detected early, simply providing the correct glasses will correct the problem. If detected late, and one or both eyes are already lazy, then in addition to glasses, other measures may be required --- these include eye exercises, and patching or occluding an eye to force the child to use the other eye, therby strengthening that eye.

If there is a squinting of the eyes, in some types, glasses may be corrective, although quite often surgery may be required.

For other problems, like cataract, glaucoma,. corneal and retinal disease, the doctor will discuss in detail the options for treatment. These could include the use of laser treatment or surgery. If a retinoblastoma (eye tumor) is present, early care is necessary to save the eye and life of the child.

General information

Your child should have his or her first eye exam done during the fist year of the child's life. Thoe next eye exam will be at the age of 3, and once again before entering kindergarten, or by age 5. Therafter, your child shuld receive a cimprehensive eye exam at least every two years. Since prevention is better than cure, it is better to detect these problems at an early stage.

