

these cases the vision may be normal. In accommodative asthenopia also the vision for distance may be normal.

According to Hazen, "asthenopia is due to disordered innervation," caused by (1) errors of refraction, and (2) anomalies of the extra-ocular muscles, in about equal proportions.

It may also be due to reflex causes such as nasal obstruction, dental caries, other nose and throat affections, and also from the chest and abdomen, or to any general depression of the constitution.

Hansel says: "The eyes are not exclusive factors in the production of headache, but no diagnosis is complete which ignores them."

The larger refractive defects which are too great to be overcome by any degree of strain, result in suppression of the visual image in the most defective eye, or in squint, if there is considerable difference of defect between the two eyes, but if both eyes are about equally defective the result will be much reduced vision, and probably no headache, but this condition of lowered acuity of vision may, and likely will, have a large share in determining what the life of that person will be, if uncorrected, resulting in subnormal capacity and stunting endeavor; but if corrected early in life will produce a larger and brighter outlook and a development that may result in a distinguished career.

Then, eye defects may be unsuspected, especially in children, and if small in amount may give rise to no symptoms until close application at school, or later at business, may produce headache and asthenopia. Many people who have congenital eye defect go to adult life, and even to old age, with vision much below normal, not knowing anything amiss because they have no headache or pain that they think comes from the eyes, but when the defect is corrected vision is much better and life made more enjoyable. Many people also have poor general health; children are puny and sickly, and do not thrive well, until attention is drawn to the eyes by some soreness or other trouble, when the defective sight is detected, and corrected, when they are at once changed into happy, bright, and healthy people. Every oculist can testify to many such cases from his own experience, and I am no exception to the rule.

Many congenital cases of astigmatism have no headache or asthenopia until they reach adult age, when unusual close application or reduced general health will make manifest the eye-strain and cause headache or asthenopia.

Uncorrected errors of refraction, or muscular anomalies, are a prolific cause of diseased conditions in the eyeball itself. The