Types of Tests

- Visual Evoked Potential (VEP)
  - Assess visual acuity
  - Check for optic nerve function
  - Measure visual brain development
  - Assess binocular vision
    (how both eyes work together)

- Electroretinography (ERG)
  - Checks for retinal diseases

- Color Vision Test
  - Assesses color vision

- Humphrey Visual Field
  - Checks for side vision

- OKN
  - Checks for eye tracking

- VOG/Pupillography
  - Checks eye movement and pupillary responses

Eye Center Team

The pediatric ophthalmologists at St. Louis Children’s Hospital are dedicated to providing expert eye care for children of all ages. Specialists are trained in the latest eye care technology and treat each child with special consideration, patience and kindness. The Eye Center Team is experienced in calming the fears of young patients and in creating a comfortable environment for you and your child.

Lawrence Tychsen, M.D.
Director and Ophthalmologist-in-Chief

Gregg Lueder, M.D.
Pediatric Ophthalmologist

Susan Culican, M.D., Ph.D.
Pediatric Ophthalmologist

Mark Rallo, O.D.
Optometrist

James Hoekel, O.D., F.A.A.O.
Optometrist

Marlo Galli, C.O.
Orthoptist

Dave Garibaldi, C.O., C.O.M.T.
Orthoptist, Videographer

Cathy Lindell, R.N.
Surgical Coordinator

Kathleen Hall, R.N.
Surgical Coordinator

Holly Moffitt, R.N.
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Jackie Foeller, B.S.
Visual Electrophysiology

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We offer diagnosis and treatment of all functional and cosmetic eye disorders in infants and children including:

- Wandering eye (Strabismus)
- Eye tracking disorder (Nystagmus – eye wiggling)
- Lazy vision (Amblyopia)
- Abnormalities of Down Syndrome, Cerebral Palsy and brain trauma
- Vision disorders of prematurity
- Genetic eye disorders
- Cataracts and Intraocular Lens Implantation
- Glaucoma
- Tear duct disorders – watery eye
- Drooping of eye lid (Ptosis)
- Hemangiomas
- Retinoblastoma and other eye tumors
- Orbital infections
- Inflammation (Uveitis)
- Laser Refractive Surgery Study in children with amblyopia
- Pediatric contact lenses

Same Day Surgery

If your child requires surgery, they will undergo a short exam before surgery. Parents will meet with a pediatric anesthesiologist who will specifically tailor anesthesia to their child’s needs.

After surgery, your child will be taken to a special recovery area called the Post Anesthesia Care Unit (PACU), where the initial stage of recovery and anesthesia wake-up occurs.

Most surgical procedures, including recovery and discharge, occur within a 24-hour period. For more information on Same Day Surgery, please visit our Web site at www.stlouischildrens.org.

Visual Electrophysiology Tests

- This type of testing does not rely on verbal communication, and therefore can test vision of non-verbal and developmentally delayed children in an objective manner.
- They are non-invasive and do not require any type of sedation or anesthesia except for the ERG.
- In all tests except the ERG, electrodes are attached to the scalp and visual stimulus is provided. Visual ability is objectively determined by measuring brain signals resulting from the stimulus.
- ERG requires sedation because a contact lens connected to electrodes is placed on the eye to measure activity of the retina.