



Washington University  
Children's Eye Center  
at St. Louis  
Children's Hospital

ST. LOUIS CHILDREN'S HOSPITAL

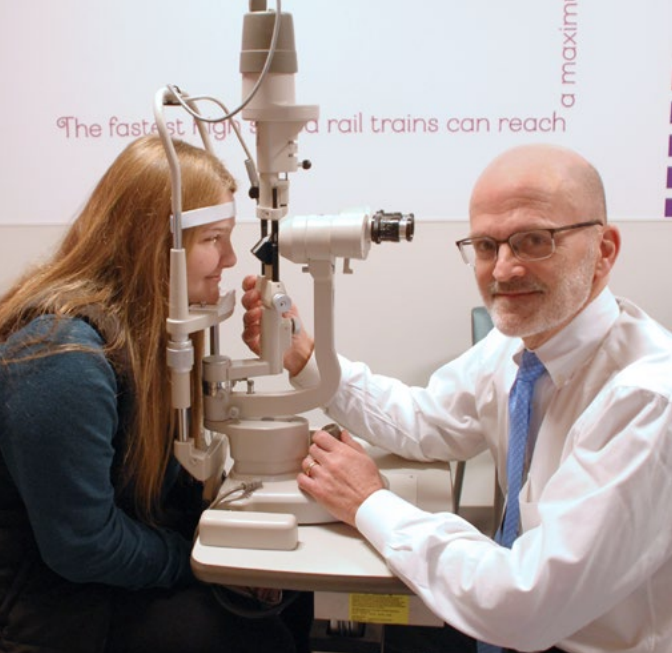
WASHINGTON UNIVERSITY PHYSICIANS

# Your child's vision deserves the best possible care.

Our specialists use advanced technologies to diagnose and treat pediatric eye disorders in a compassionate manner.

The Children's Eye Center can care for all vision disorders that occur in infants and children, from focusing errors and eye crossing to cataracts and tumors. Evaluation in infancy and early childhood is encouraged, especially for those born prematurely, developmental delayed or who have a parent or relative with an eye disorder of childhood.





**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 or brain trauma
- Vision disorders of prematurity
- Genetic eye disorders
- Cataracts and intraocular lens implantation
- Glaucoma
- Tear duct disorders (watery or goopy eye)
- Eyelid drooping (ptosis)
- Hemangiomas, cysts and lumps
- Retinoblastoma and other eye tumors
- Orbital infections (cellulitis)
- Inflammation (uveitis)
- Lasik and lens implants for children who won't wear glasses (refractive surgery)



## **SAME DAY SURGERY**

If your child requires surgery, he or she will undergo a short exam. Parents will meet with a pediatric anesthesiologist who tailors 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 wake-up occurs.

Your child will arrive about an hour before the procedure and go home a few hours later. For more information on Same Day Surgery, please visit our web site at [stlouischildrens.org](http://stlouischildrens.org).



## VISUAL DIAGNOSTIC LAB TESTING

The tests do not rely on verbal communication, and provide additional information on the vision of infants, non-verbal and delayed children in an objective manner.

- The tests are non-invasive and generally require no sedation.
- While the child views a video screen, the response of the visual brain is measured by scalp electrodes, and eye tracking is measured with digital camera goggles.
- A special ERG test of retina function may be needed in some children, and for this sedation is required.



## RANGE OF TESTS

- Visual Evoked Potential (VEP):
  - visual acuity
  - optic nerve function
  - visual brain development
  - albinism
- Target Recognition (Preferential Looking) Tests:
  - visual acuity and central visual field
  - contrast sensitivity
- Electroretinography (ERG):
  - retinal diseases of the rods and cones
  - night (dark) vision
  - pigment abnormalities

*continued >*

## RANGE OF TESTS (CONTINUED)

- Retina Imaging:
  - optic nerve anatomy
  - retina thickness
  - retina abnormality photography
- Cornea Imaging:
  - abnormal curvature
  - thinning or thickening
  - size and density of cells
- Eye biometry:
  - curvature, length of eye
  - size of eye chambers
  - calculation of IOL power
- Color Vision Test:
  - inherited color deficiencies
  - optic nerve disorders
- Visual Field:
  - side vision
  - night vision
  - blind spots
- Eye Movement Recording:
  - tracking moving objects
  - crossed or wandering eyes
  - jerking or wiggling (nystagmus)
- Pupillography:
  - light and near target responses



We are dedicated to providing expert pediatric eye care 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.

**Andrew Lee, MD**

Pediatric Ophthalmologist

**Gregg Lueder, MD**

Pediatric Ophthalmologist

**Margaret Reynolds, MD**

Pediatric Ophthalmologist

**Lawrence Tychsen, MD**

Pediatric Ophthalmologist

**Michelle Beck, OD**

Pediatric Optometrist

**Gabriel Burton, OD**

Pediatric Optometrist

**Elizabeth Everson, OD**

Pediatric Optometrist

**James Hoekel, OD**

Pediatric Optometrist

**Amanda Nicklas, OD**

Pediatric Optometrist

**Marisa O'Brien, OD**

Pediatric Optometrist

**Mark Rallo, MD**

Pediatric Optometrist

**Bethany Rosenthal, OD**

Pediatric Optometrist

**David Garibaldi, CO, COMT**

Orthoptist



## St. Louis Children's Hospital

One Children's Place, Suite 3110  
St. Louis, Missouri 63110

## Children's Specialty Care Center – West County

13001 N. Outer Forty Road, Suite 2C  
St. Louis, Missouri 63017

## Children's Specialty Care Center – South County

5114 Midamerica Plaza, Suite 3A  
St. Louis, MO 63129

### Appointments

**800.KIDS.218 | 314.454.6026**

866.936.4559 fax



Physicians

**[StLouisChildrens.org](http://StLouisChildrens.org)**

St. Louis Children's Hospital and Washington University Physicians comply with applicable federal civil rights laws and do not discriminate on the basis of race, color, national origin, age, disability or sex.

Atención: hay servicios de asistencia de idiomas disponibles a su disposición sin costo.

Llame al 314-747-5682 (TTY: 1-800-735-2966).

注意：免费提供语言协助服务，如有需要敬请致电  
314-747-5682 (TTY: 1-800-735-2966)。