

learning disabilities

a closer look

WHAT IS A LEARNING DISABILITY?

A learning disability is a disorder in understanding or using spoken or written language. Individuals with learning disabilities have average or even above-average intelligence, but experience problems with:

- Reading;
- Writing;
- Listening;
- Speaking;
- Concentration;
- Doing mathematical calculations.

About 7 to 15 percent of all school-aged children have been diagnosed with a learning disability.

Dyslexia is a type of learning disability that involves difficulty with reading.

The term **learning disabled** does not apply to children who have learning problems caused by vision or hearing problems, intellectual disabilities, emotional disturbances, or who have environmental, economic or cultural disadvantages.

WHAT CAUSES A LEARNING DISABILITY?

Learning disabilities are often inherited. In many cases, however, the cause of a learning disability is not known.

Besides a family history of learning disabilities, other risk factors include low birth weight, stress before or after birth, infections of the central nervous system and severe head injuries.

There is no scientific evidence to show that poor vision, abnormal focusing, jerky eye movements, and misaligned or crossed eyes cause learning disabilities.

Instead, research points to problems with how the brain interprets what is read. Normally, when we read, our brain relates visual images to previous experiences and known information (such as the meaning of words). A learning disability occurs when the brain processes this information differently.

WHAT ARE THE SIGNS OF A LEARNING DISABILITY?

Before a child begins school, parents are usually not aware that their child has a learning disability.

In school situations, the following signs may suggest a learning disability:

- Difficulty or dislike of reading;
- Poor handwriting;
- Slow writing speed;
- Difficulty with math;
- Difficulty putting information in order;
- Difficulty understanding abstract concepts;
- Memory problems;
- Difficulty with language (for example, trouble following oral directions or remembering words).



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Parents should be aware that children with learning disabilities may develop certain personality and behavioral problems.

Children with learning disabilities may become frustrated, lose interest in schoolwork and soon try to avoid difficult tasks altogether.

Learning disabilities can also damage a child's developing self-image and cause emotional problems such as withdrawal, anxiety, depression or aggression.

DO THE EYES HAVE ANYTHING TO DO WITH LEARNING DISABILITIES?

It may seem easy to blame reading problems on the eyes, but **learning disabilities are caused by the brain, not the eyes**. Children with learning disabilities do not have more visual problems than children without learning disabilities.

Your eye functions like a camera. After the eye "takes the picture," the image is sent to your brain by the optic nerve.

Your eyes do not understand what they see any more than a camera understands the photograph it takes. Until the photo is processed, it has no meaning. Similarly, until your brain interprets images seen by your eyes, the image has no meaning.

HOW ARE LEARNING DISABILITIES TREATED?

A child with a learning disability needs to practice academic skills and learn helpful strategies with the aid of a trained specialist, just as an athlete should practice under a coach's guidance.

Several recent reviews of behavioral vision therapy literature have confirmed that to date, no scientific evidence has shown that visual training, or muscle, perceptual and hand-eye coordination exercises can improve a child's learning disability.

If you or your child's teachers suspect a learning disability, you should contact the child's school, and if necessary, the local or state director of special education. Public law requires schools to evaluate any child who is thought to have a learning disability.

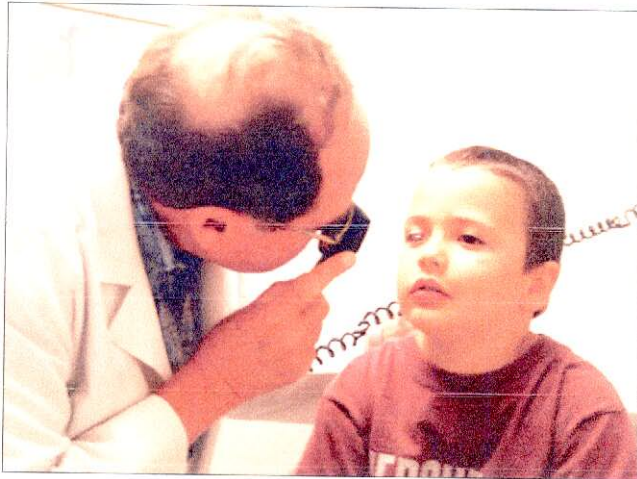
The evaluation is handled by educators and typically involves educational, psychological or neuropsychological testing. Other evaluations may be conducted by a learning disabilities specialist, a speech/language pathologist, an audiologist or a school nurse.

A thorough medical eye examination can discover a visual defect that may affect reading.

It is important that parents and teachers participate in this process and are involved when decisions about the child's educational needs are being made.

Remedial training should be done by a qualified education teacher, reading specialist and in special education classes when appropriate.

A child with learning disabilities needs understanding and emotional support, as well as opportunities to experience success in other activities. Allowing a child to release tensions and frustrations through sports or artistic activities can be helpful.



American Association for Pediatric Ophthalmology and Strabismus

www.aapos.org

International Dyslexia Association

www.interdys.org
(410) 296-0232

Learning Disabilities Association of America

www.ldanatl.org
(412) 341-1515

National Center for Learning Disabilities

www.nclld.org
(888) 575-7373

The National Reading Panel

www.nationalreadingpanel.org
(800) 370-2943

ARE THERE CURES FOR LEARNING DISABILITIES?

Learning disabilities are complex problems. There are no quick fixes. **Simple solutions, such as diet, megavitamins, sugar restriction, eye exercises, eyeglasses or vision training do not cure learning disabilities.** These approaches may delay the educational assistance that your child needs.

With proper help, children with learning disabilities can become very successful.

The following organizations can provide further information on learning disabilities:

**American Academy of Ophthalmology
Complementary Therapy Assessment
on Vision Therapy**

www.aapos.org/client_data/files/41_policyvisiontherapy.pdf

American Academy of Pediatrics

www.aap.org
(847) 434-4000

COMPLIMENTS OF YOUR OPHTHALMOLOGIST:

San Antonio Eye Center, P.A.

(210) 226-6169

www.saeye.com

Academy reviewed 08/10

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