

Lucile Packard  
Children's Hospital  
AT STANFORD



# The Pediatric Audiology Service

at Lucile Packard Children's Hospital

[www.lpch.org](http://www.lpch.org)



**Hearing loss** is the most common congenital defect in newborns. While the State of California mandates that hospitals screen for hearing loss at birth, the simple truth is that some children are not diagnosed with hearing loss until they are between 18 months to three years of age — well past the critical period of speech and language development.

Because hearing loss is invisible and causes delays in communication ability, it can masquerade as other disabilities and conditions such as developmental delays or autism. Missed or misdiagnosed hearing loss can set in improper treatments that not only do not address the hearing loss, but also delay the child's development.

If you suspect your child suffers from hearing loss, the Pediatric Audiology Service at Lucile Packard Children's Hospital at Stanford can help. Focusing on early diagnosis and family-centered treatment of childhood hearing loss, the hospital's world-class audiologists work with newborns, infants, school-age children and adults to ensure that everyone with childhood hearing loss gets the proper diagnosis and treatment they require.



## WHAT IS AN AUDIOLOGIST?

An audiologist is a health care professional who evaluates, treats, and manages individuals with hearing loss or balance problems. In California, a person must hold a Master's or Doctoral degree from an accredited university or graduate program to practice audiology.

## THE PEDIATRIC AUDIOLOGY SERVICE TEAM

Under the direction of Jody Winzelberg, AuD, Doctor of Audiology, the Pediatric Audiology Service at Lucile Packard Children's Hospital at Stanford is comprised of a world-class team of audiologists focused on the family centered care of patients of all ages who suffer from childhood hearing loss.

The audiologists work closely with the pediatric otolaryngology, speech and language pathology, craniofacial anomaly, brain and behavior, and the cochlear implant teams at Packard Children's to provide comprehensive care for persons with childhood hearing loss and communication disorders.

# Pediatric Audiology Services at Lucile Packard Children's Hospital

The Pediatric Audiology Service at Lucile Packard Children's Hospital at Stanford offers out-patient services to identify, evaluate, treat, and manage childhood hearing loss. It is one of the only pediatric audiology departments in Northern California that offers access to comprehensive diagnostic services and prescribes and dispenses hearing aids and assistive devices. The department's services are certified by the California Children's Services as a Level C (Birth-21 years) Communication Disorders Center.



nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat.

## DIAGNOSTIC SERVICES

### Newborn hearing assessments

Outpatient re-screenings and diagnostic evaluations conducted as a follow-up for newborns who do not pass their inpatient screening or who are at high risk for hearing loss due to their family, prenatal, or neonatal history.

### Behavioral hearing evaluations

Developmentally appropriate evaluations for children at least six months of age to assess hearing sensitivity and auditory responsiveness.

### Middle ear function assessments

Tympanometry, Eustachian tube function, and acoustic reflex testing that evaluates the function and integrity of various structures in the middle ear and auditory pathway.

### Auditory Brainstem Response (ABR, BSER)<sup>1</sup>

Electrophysiological evaluation for very young children (under 6 months of age) or children who cannot be tested behaviorally that assesses the integrity of the auditory system. This test is also used as a neurodiagnostic tool for evaluating the auditory nerve and central auditory pathways.

### Auditory Steady State Response (ASSR)

Electrophysiological test that helps determine hearing thresholds in a very young or difficult-to-test child.

### Otoacoustic emission testing

Objectively evaluates and monitors cochlear hair cell function. This test is used as part of the auditory evaluation.

### Ototoxicity monitoring

Baseline evaluations and ongoing monitoring for individuals taking medication that could affect hearing.

## AURAL HABILITATION AND REHABILITATION SERVICES

### Hearing aid evaluations

Consultations with the audiologists at the Audiology Service at LPCH can determine the most appropriate amplification for every patient.

### Hearing aid and assistive technology dispensing and repair

The Audiology Service at LPCH can fill any hearing aid instrumentation prescription, even if the diagnostic evaluation has been performed at another facility.

### Hearing aid electroacoustic analysis

In-depth testing assists the Audiology Service staff in diagnosing hearing aid equipment problems.

### Live speech mapping and real ear/probe microphone testing

Objective assessment of the hearing aid or other amplification device in a real-world setting, using the patient's ear canal anatomy and resonance, ensures that speech and other sounds are effectively heard and not uncomfortably loud. This testing is especially helpful for young, non-verbal children.

### Customized hearing protection

The Audiology Service at LPCH offers a variety of different products to protect ears and hearing against environmental factor such as loud sounds, unwanted noise, and water.

## RESOURCES

### The American Academy of Audiology

[www.audiology.org](http://www.audiology.org)

### National Institute on Deafness and Other Communication Disorders (NIDCD) at the National Institutes on Health (NIH)

[www.nidcd.nih.gov](http://www.nidcd.nih.gov)

### Marion Downs National Center for Infant Hearing

[www.colorado.edu/slhs/mdnc/](http://www.colorado.edu/slhs/mdnc/)

### Educational Audiology Association

[www.edaud.org](http://www.edaud.org)

### American Speech-Language-Hearing Association

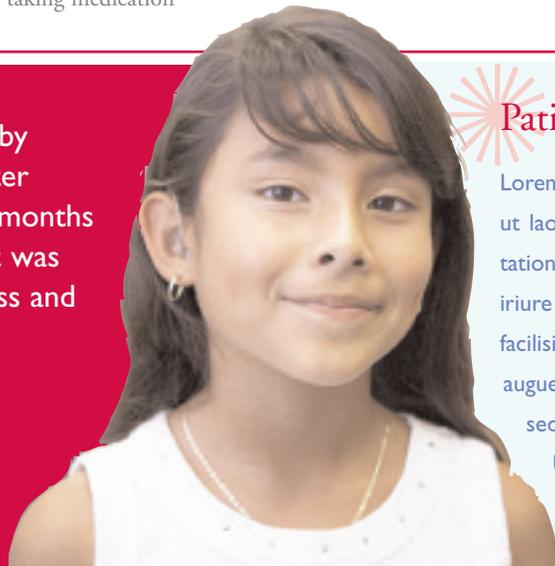
[www.asha.org](http://www.asha.org)

Lucile Packard Children's Hospital at Stanford, Stanford Hospital & Clinics and Stanford University do not endorse, support or sponsor any of the organizations listed in this brochure or their websites, products or services and specifically disclaim any warranties of merchantability or fitness for a particular purpose. Furthermore, the websites listed in this brochure are for informational purposes only. The content of the websites is not intended to be a substitute for professional medical advice, diagnosis or treatment. Always seek the advice of your physician or other qualified health provider with any questions you may have regarding a medical condition.

<sup>1</sup> Both sleep deprivation and sedation studies conducted

“Children whose hearing losses were identified by 6 months of age demonstrated significantly better language scores than children identified after 6 months of age. Significantly better language development was associated with early identification of hearing loss and early intervention.”

— Christine Yoshinaga-Itano, Ph.D., Vice Provost and Associate Vice Chancellor for Diversity and Equity, University of Colorado at Boulder



## Patient Name

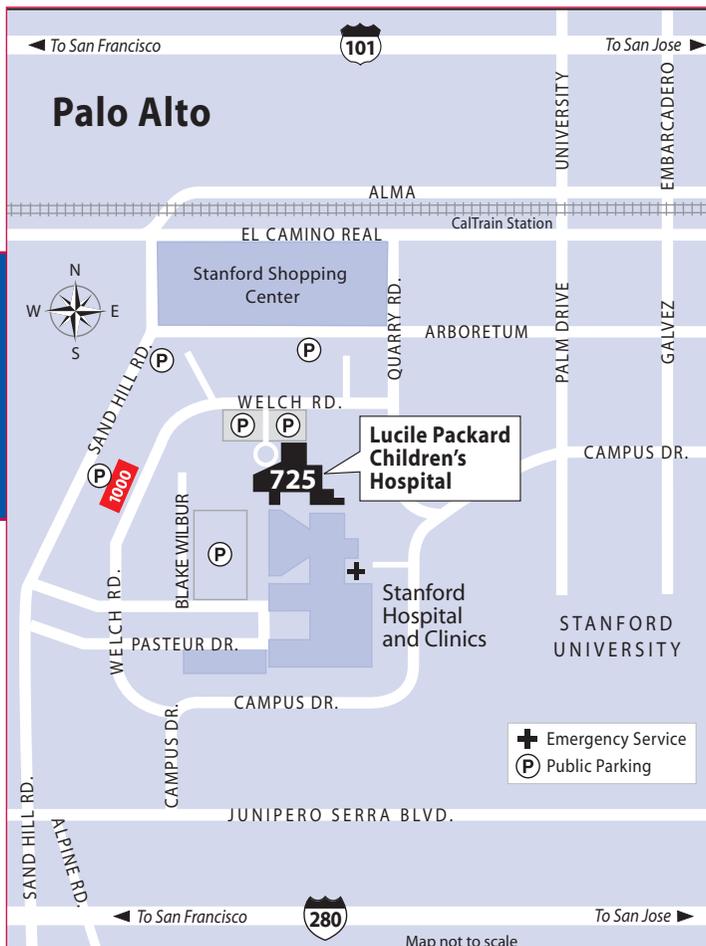
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exercitation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat. Duis autem vel eum iriure dolor in hendrerit in vulputate velit esse molestie consequat, vel illum dolore eu feugiat nulla facilisis at vero eros et accumsan et iusto odio dignissim qui blandit praesent luptatum zzril delenit augue duis dolore te feugait nulla facilisi. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat.

Ut wisi enim ad minim veniam, quis nostrud exercitation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat. Duis autem vel eum iriure dolor in

Benjamin goes here

## Patient Name

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exercitation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat. Duis autem vel eum iriure dolor in hendrerit in vulputate velit esse molestie consequat, vel illum dolore eu feugiat nulla facilisis at vero eros et accumsan et iusto odio dignissim qui blandit praesent luptatum zzril delenit augue duis dolore te feugait nulla facilisi. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam



## The Pediatric Audiology Service at Lucile Packard Children's Hospital

1000 Welch Road, Suite 10  
Palo Alto, CA 94304

Phone: (650) 498-HEAR or (650) 498-4327

Fax: (650) 736-4327

Clinic Hours: Monday–Friday, 8:30 am–5:00 pm

**Lucile Packard  
Children's Hospital**  
AT STANFORD



[www.lpch.org](http://www.lpch.org)