

# Early Hearing Detection & Intervention US & Indiana



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# Just In Time

So your baby's care is right on time

Early Hearing Detection and Intervention

**1** Before **ONE Month**  
of Age: Hearing  
Screening

**3** Before **THREE Months**  
of Age: Hearing  
Evaluation

**6** Before **SIX Months**  
of Age: Early  
Intervention

Questions?

Ask your health  
care provider for  
more information.



[www.cdc.gov/ncbddd/ehdi](http://www.cdc.gov/ncbddd/ehdi)



# Directors of Speech & Hearing Programs in State Health & Welfare Agencies (DSHPSHWA) 2004 National Summary Data

- 91.7% received UNHS (48 reporting)
- 98.3% received UNHS before discharge (41 reporting)
- 1.8% Did Not Pass UNHS (47 reporting)
- 48% Receiving Audiologic Evaluation (40 reporting)
- 52% Lost to System (40 reporting)



# Directors of Speech & Hearing Programs in State Health & Welfare Agencies (DSHPSHWA) 2004 National Summary Data

- 75% Received audiologic evaluation by 3 months of age (35 reporting)
- 1.1 per 1,000 screened were identified with hearing loss (range 0.22-3.61) (46 reporting)
- 95.5% were identified through EHDI program (46 reporting)
- 65.5% were enrolled in intervention (39 reporting)
- 46.4% were enrolled in intervention by six months (38 states reporting)

# EHDI in Indiana

- PL91-1999 was passed in 1999 and mandated that “every infant receive a physiologic hearing screening at the earliest feasible time for the detection of hearing loss.”
- The only acceptable reason to refuse screening is based on religious objection
- All birthing facilities were to be in compliance with the law by July 1, 2000.



# EHDI in Indiana

- 16-41-17-10 states that ISDH is responsible for....
  - “A centralized program that provides tracking, follow-up, diagnosis, management, and family counseling and support.”



# EHDI in Indiana

## ISDH Staff

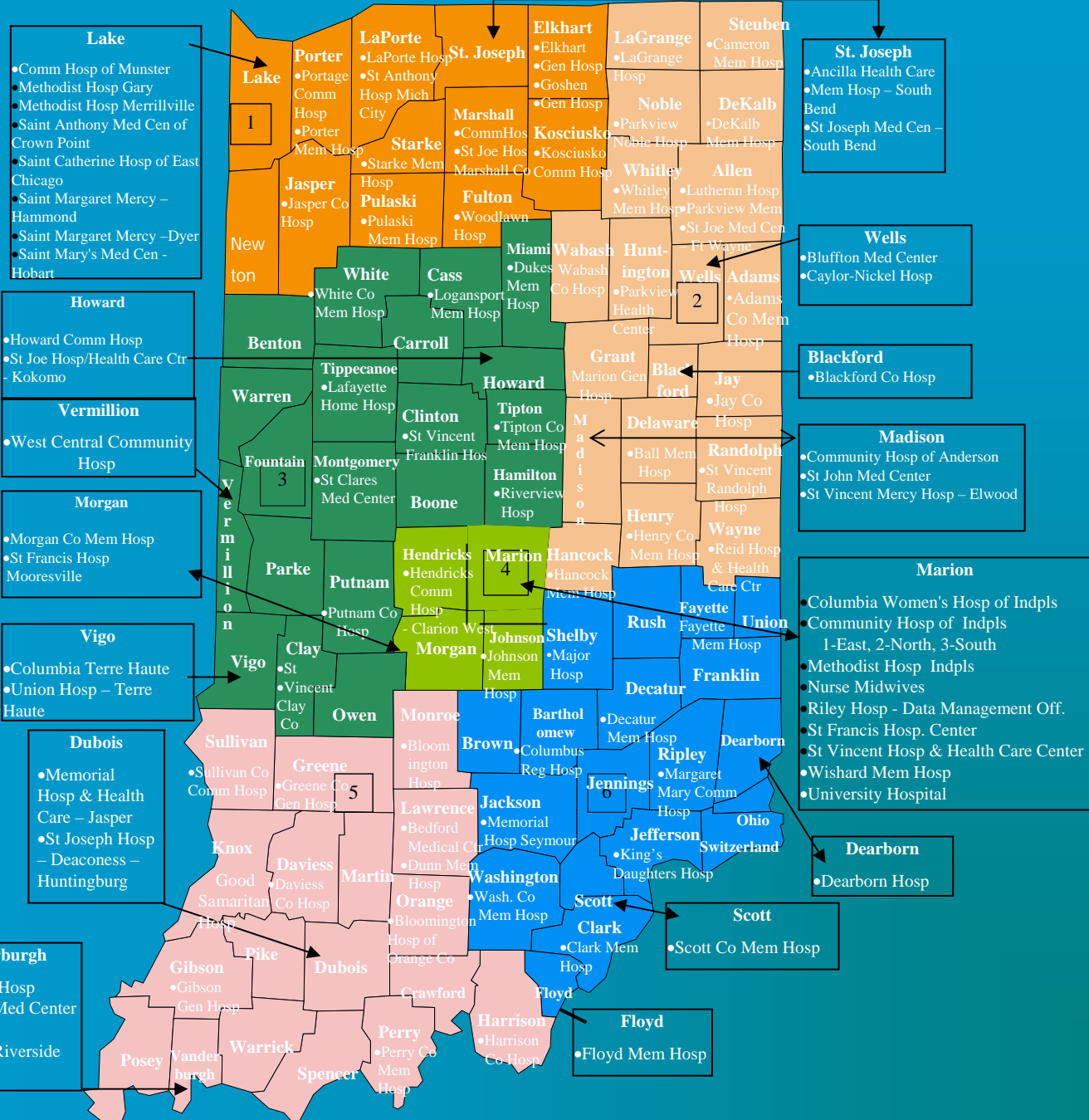
- Director of Genomics and Newborn Screening
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  - Bess Godard, R.N., B.S.N.
  - [bgodard@isdh.IN.gov](mailto:bgodard@isdh.IN.gov)
- EHDI Regional Audiology Consultants




# EHDI Regional Audiology Consultants

- 6 Regions – 8 Consultants around the state
- Provide technical assistance, training, and consultation to hospitals and families
- Provide in-service training to early intervention providers
- Serve as regional resource to ensure appropriate and timely care for children suspected to have or identified with hearing loss

# EHDI Regional Audiology Consultants





# Indiana's Centralized Follow-up System - ISDH

Audiology coordinator & nurse consultant to assist with contacting parents, hospitals, PMPs, audiologists, nurses, and PHNs for infants who:

- Were not screened
  - Unauthorized Refusal
  - Transferred
  - NICU
  - Screening Next Month
  - Home Birth
- Did not pass screening
- Were Lost to Follow-up
- Were at risk for delayed onset of hearing loss
- Were classified as “border babies”
- Were Diagnosed with Hearing Loss



# EHDI Reporting & Follow-up

- Monthly Summary Reports (MSR)
- Automatic Letter Generation
  - Parent Letters & Follow-up Forms
  - Physician Letters
  - Public Health Nurses (PHNs)
- Diagnostic Audiologic Evaluation (DAE) Form
- Phone Call
- Certified/Secure Email System

# Letters Generated

Year	Parent Letter Sent	Physician Letter Sent
2004	2021	1580
2005	4715	1753
2006	1032	560
So far...		

# DAE Forms Received

<b>Year</b>	<b># of DAEs Received</b>
<b>2003</b>	<b>578</b>
<b>2004</b>	<b>841</b>
<b>2005</b>	<b>989</b>
<b>2006 so far...</b>	<b>195</b>



# ISDH's Key EHDI Partners

- Parents/Families
- First Steps
- Outreach Services for Deaf & Hard of Hearing Children
- Specialists/Audiologists
- Primary Medical Providers
- Hospitals & Birthing Facilities
- Public Health Nurses
- Parent Organizations
- Universities

A decorative graphic in the top-left corner of the slide, consisting of several interlocking puzzle pieces. The pieces are white with black outlines and are arranged in a cluster that tapers towards the top-left corner. The background of the slide is a solid, light blue color.

# Indiana At A Glance



# EHDI in Indiana

- Approximately 88,000 live births per year
- 103 Hospitals & 3 Birthing Facilities
- Approximately 600 Home Births Annually



# EHDI in Indiana Summary Data

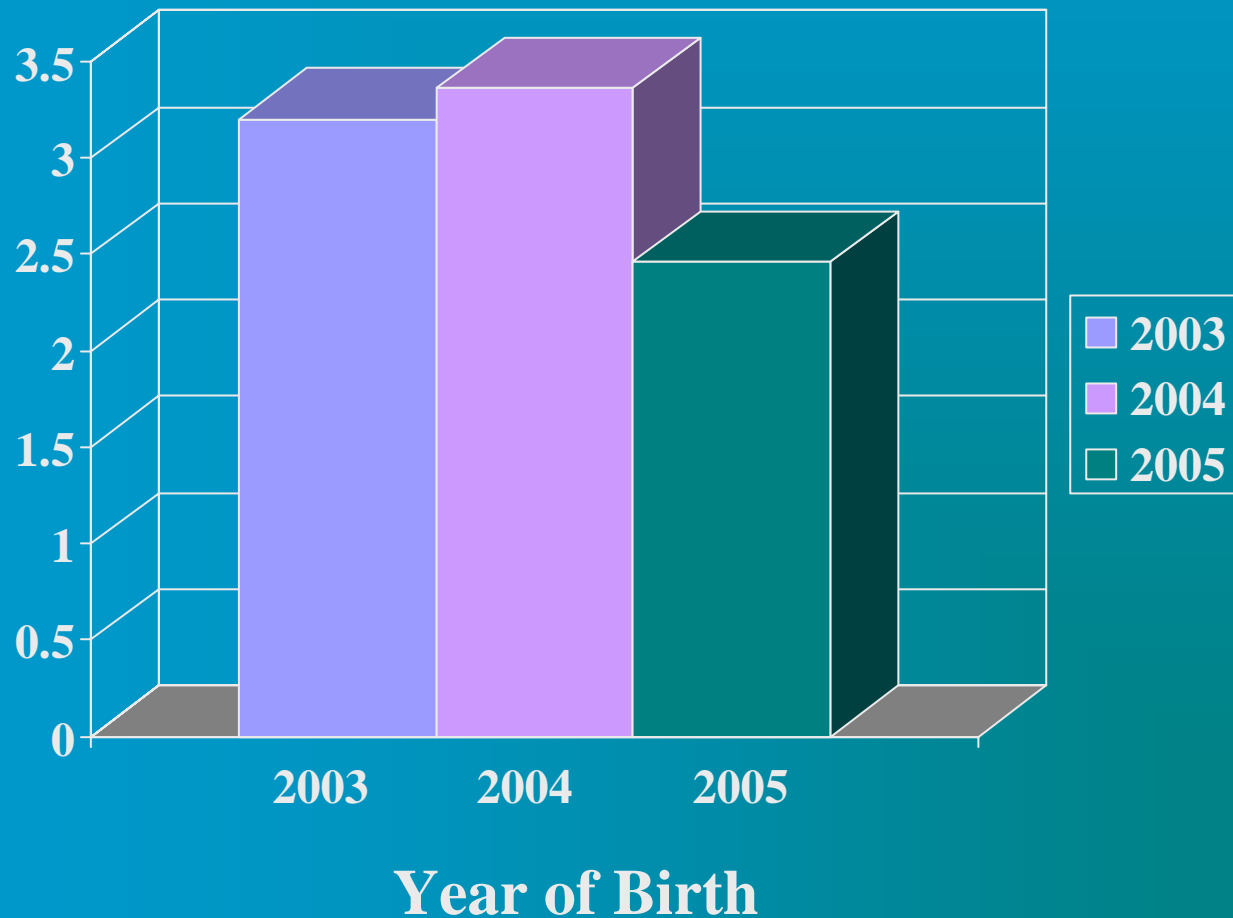
- 98% Received UNHS (2004 & 2005)
- 1.8 % Did Not Pass UNHS (2004 & 2005)
- 0.6% Referred for Risk Factors (2004 & 2005)
- 58.5% in 2004 Lost to EHDI System \*
- 47% in 2005 Lost to EHDI System \*
- 55 Children in 2004 Receiving First Steps Services
- 54% were enrolled in EI by 6 months of age

\*May receive services via FS

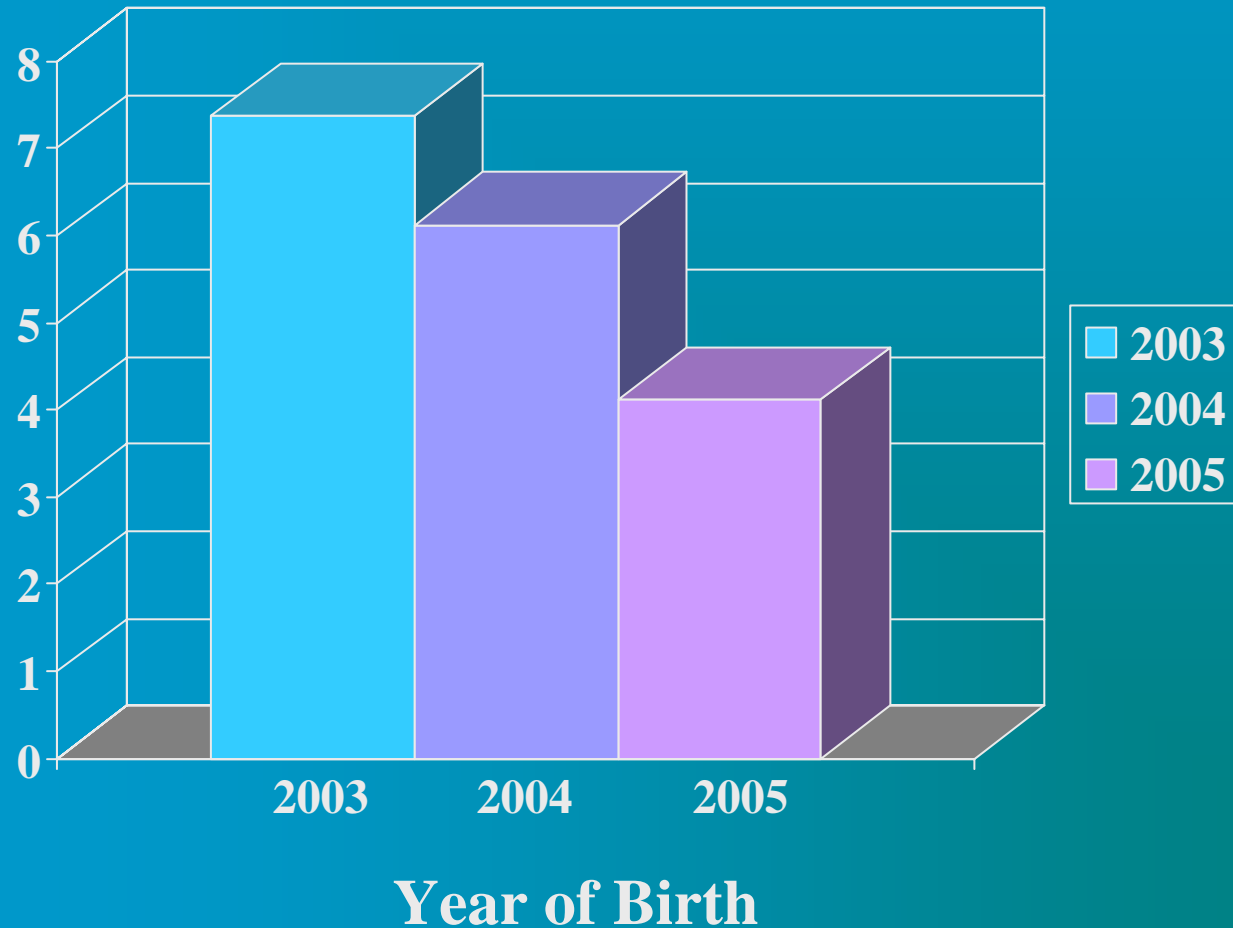
# Indiana's Current Status

- 66 Babies were identified with hearing loss in 2003 (.76 per 1000 births)
- 91 Babies were identified with hearing loss in 2004 (1.03 per 1000 births)
- 76 Babies who were born in 2005 have been reported so far as being diagnosed with hearing loss
- 7 Babies who have been born this year, 2006, have been reported so far as being diagnosed with hearing loss

# Average Age of Evaluation in Months

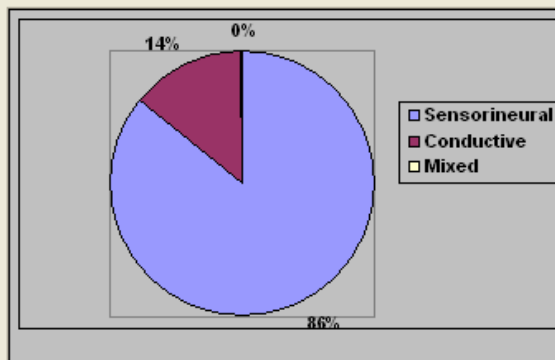


# Average Age of Diagnosis in Months

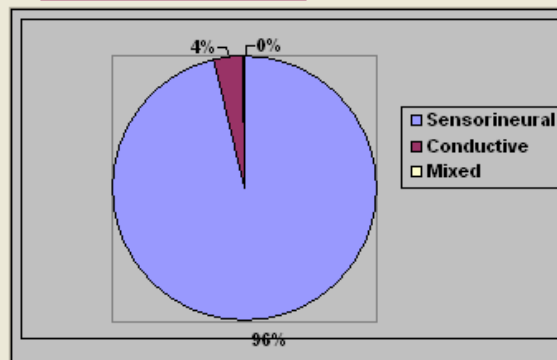


# Children with Permanent Childhood Hearing Loss Born in 2004 (N=91)

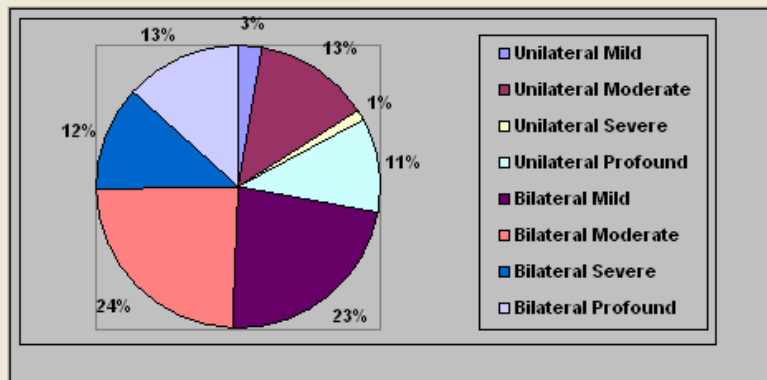
**Unilateral Hearing Loss:**



**Bilateral Hearing Loss:**

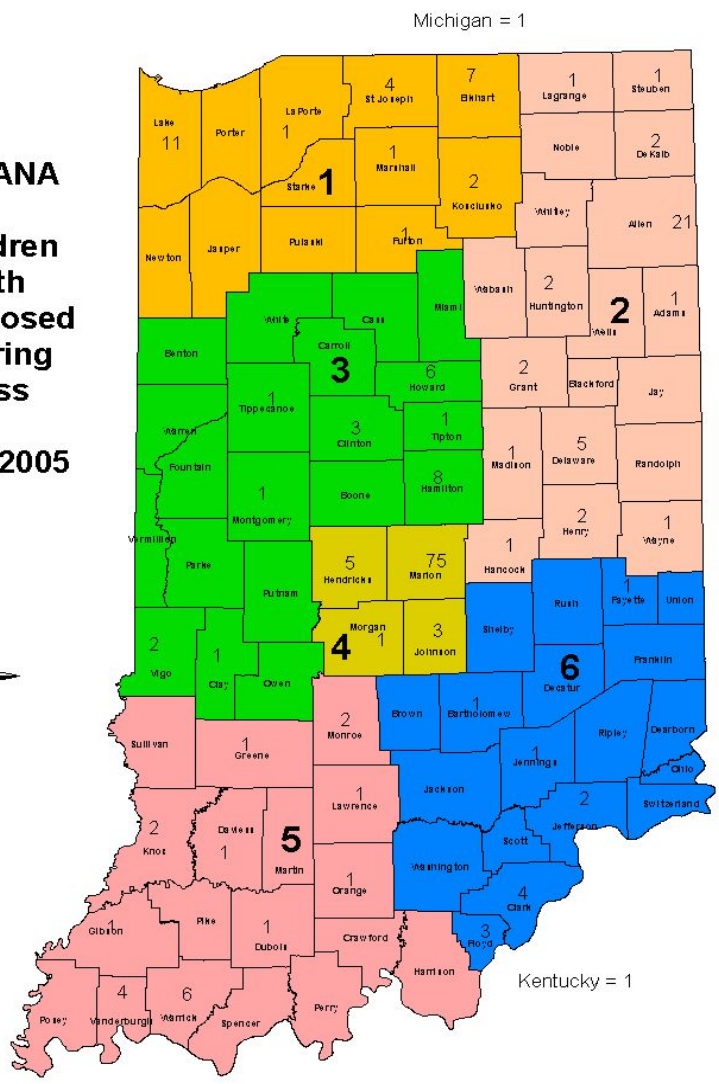


**Diagnosed Degree of Loss:**





**INDIANA**  
**Children with Diagnosed Hearing Loss**  
**2003-2005**





# Ongoing Projects

1. EARS – EHDI Alert Response System
  - a) Web-based Data System
  - b) Incorporation of CDC Recommended Data Items
2. EHDI Advisory Committee – Vision
  - a) Meeting with other states
  - b) Designing 1, 3, 5, 10 year plan for Indiana
3. Regional Diagnostic Centers
  - a) 2005 Survey Results
  - b) MOUs to be developed in 2006-2007
4. Indiana Birth Defects and Problems Registry (IBDPR)



# Ongoing Projects

5. Reciprocal Release of Information
6. Indiana Chapter of Hands & Voices  
[www.inhandsandvoices.org](http://www.inhandsandvoices.org)
7. SKI\*HI Parent Advisors
  - a) Trainings held in 2005 & 2006
  - b) Partnership between EHDI, Outreach, & First Steps
  - c) To improve the number of Early Intervention providers skilled at working with families who have Deaf and/or hard of hearing children
8. Third Annual Family Conference – June 16<sup>th</sup> and 17<sup>th</sup> at Purdue University



Questions????

Comments????



# Contact Information

- For more information regarding EHDI Program contact:
  - Julie R. Schulte, M.A., CCC-A
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  - 888-815-0006 (toll free)
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  - 866-275-1274 (TTY)
  - [Jschulte@isdh.IN.gov](mailto:Jschulte@isdh.IN.gov)
- For more information about hearing loss in children check out [www.infanthearing.org](http://www.infanthearing.org) or [www.babyhearing.org](http://www.babyhearing.org)

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Thank you!!!