

BUILDING COMMUNITY CAPACITY FOR EHDI SERVICES STATEWIDE

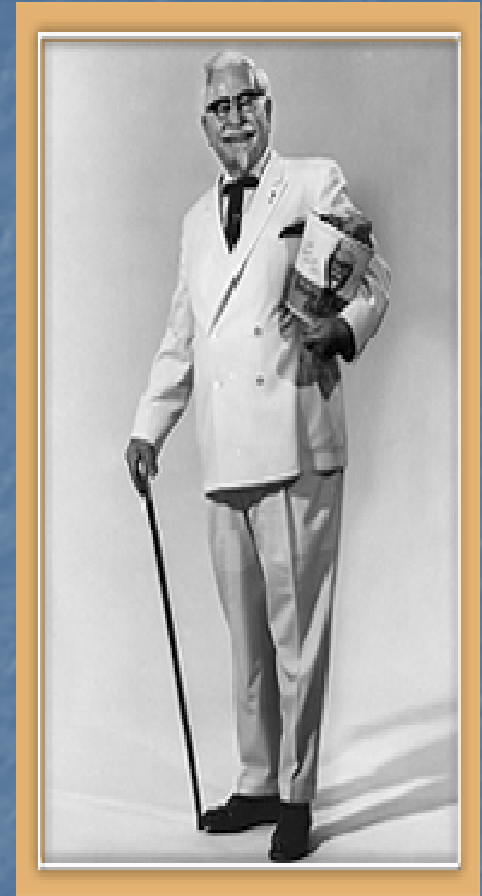
A Kentucky Model

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Commission for Children with Special Health Care Needs

KENTUCKY'S FAMOUS FOR...





Kentucky HB 706

Spring 2000

Kids Now

(Kentucky Invests in Developing Success)

- Mandated UNHS for all birthing hospitals in KY w/40+ births/yr.
- Selected CSHCN to manage UNHS
- Set strict guidelines for reporting & data management.

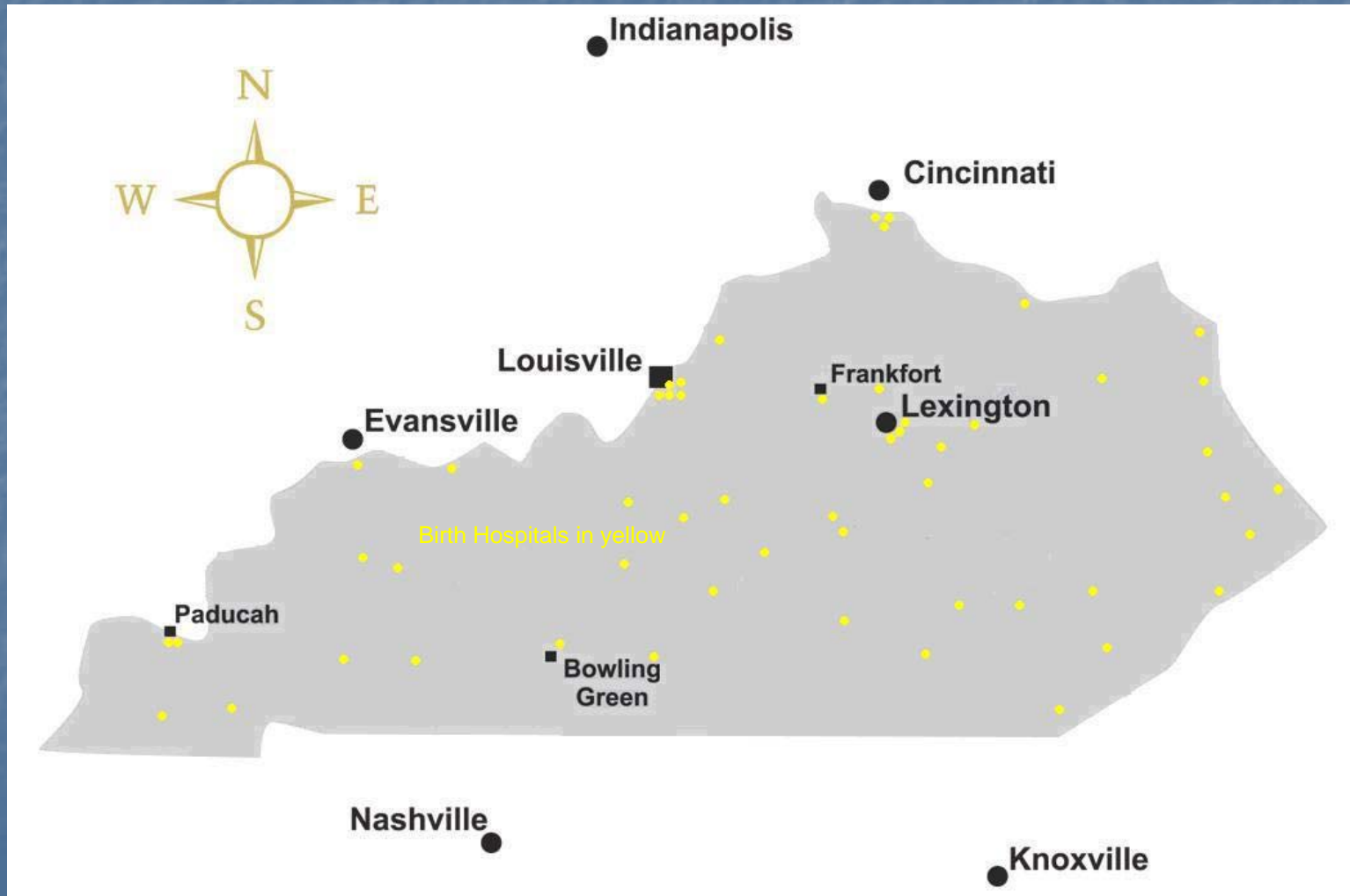


January 1, 2001 full
implementation

Mandated Risk Indicators

- High Bilirubin
- Craniofacial Anomalies
- Syndromes
- Sepsis, Seizures, Meningitis
- Ototoxic Medications
- Pre/perinatal Conditions
- PPHN (Persistent Pulmonary Hypertension)
- Family History of Hearing Loss
- Hearing Screening Results
- Low APGAR
- Low Birth weight
- Anoxia or apnea

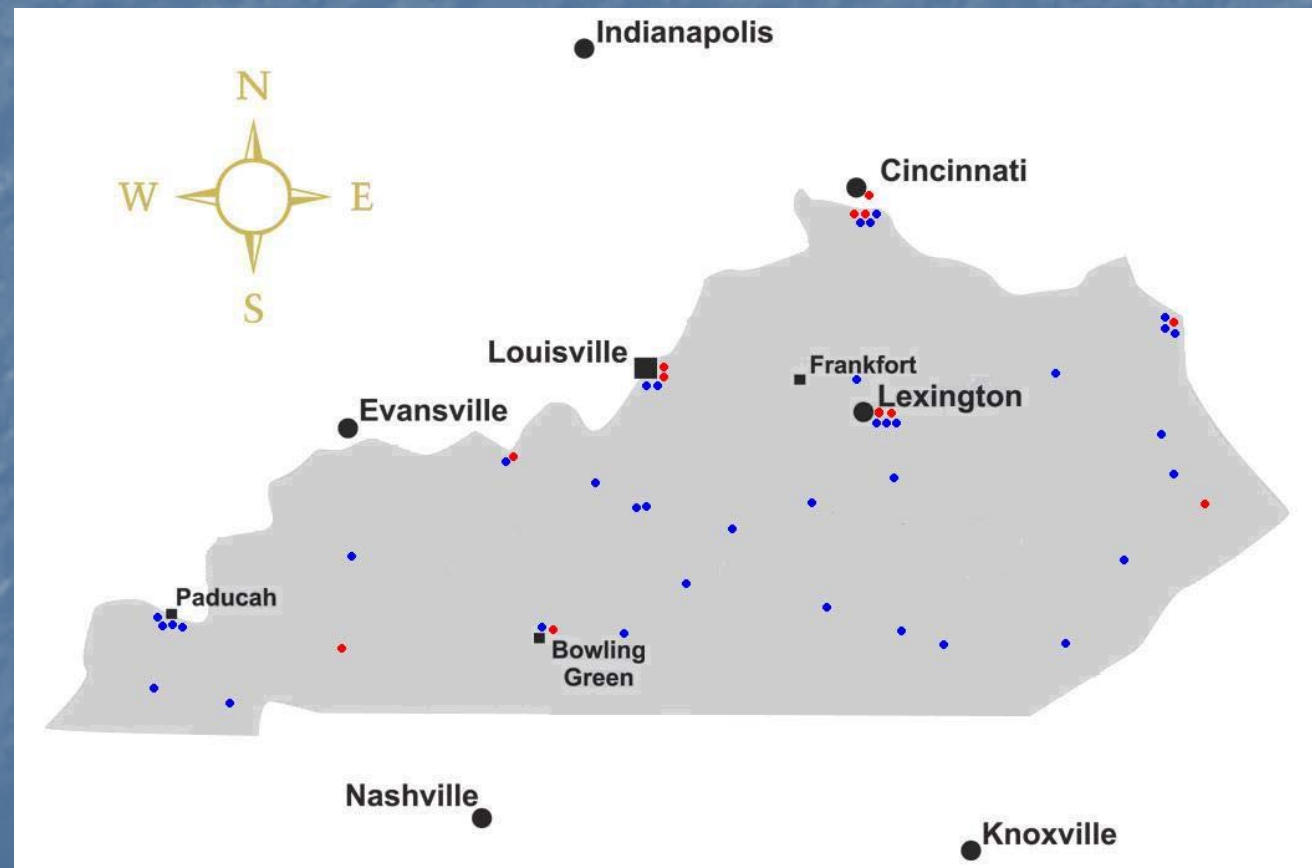
Kentucky Birth Hospitals



Kentucky Diagnostic Test Centers

Level 1
Centers-Blue

Level 2
Centers-Red



Diagnostic Audiology Resource List

Diagnostic Audiology Resource List

(Centers are grouped by Area Code and then alphabetized by City)

●Level 2 Centers in Area Code 502●		
See bottom of this page for a description of Level 2 and 1 Centers		
The Heuser Hearing Institute/ Louisville Deaf Oral School	117 E. Kentucky St. Louisville, KY 40203	502-584-3573
Kosair Children's Hospital, Audiology	231 East Chestnut St. Louisville, KY 40202	502-629-7710
●Level 2 Centers in Area Code 859●		
St. Elizabeth Medical Center, Speech & Audiology	One Medical Village Drive Edgewood, KY 41017	859-301-5740
University of Kentucky Communicative Disorders	740 S. Limestone Lexington, KY 40536	859-257-3390
Kentucky ENT	1720 Nicholasville Rd. #501 Lexington, KY 40503	859-278-1114
●Level 2 Centers in Area Code 606 North●		
King's Daughters Medical Center, Audiology	480 23rd Street Ashland, KY 41101	606-327-4682
●Level 2 Centers in Area Code 606 South●		
East Kentucky Eye, Ear, Nose and Throat	255 Church Street, Suite 101 Pikeville, KY 41501	606-432-4494
●Level 2 Centers in Area Code 270 East●		
Commission for Children with Special Health Care Needs, Bowling Green	495 Three Springs Rd. Bowling Green, KY 42104	270-746-7816 800-843-5877
●Level 2 Centers in Area Code 270 West●		
Hearing Services of KY, Inc.	1717 High St. #2C Hopkinsville, KY 42240	270-886-8468
Commission for Children with Special Health Care Needs, Owensboro	1600 Breckenridge St Owensboro, KY 42303	270-687-7038 877-687-7038
●Level 1 Centers in Area Code 502●		
Ireland Army Community Hospital Early Intervention Services	Department of the Army Fort Knox, KY 40121	502-624-9552 For Army Dependents Only
Clinical Audiology of Louisville	4001 Dutchmans Lane, Suburban Plaza #4C Louisville, KY 40207	502-893-5105
Commission for Children with Special Health Care Needs, Louisville	982 Eastern Pkwy, Building B Louisville, KY 40217	502-595-4459 800-232-1160 x251
●Level 1 Centers in Area Code 859●		
Cardinal Hill of Northern Kentucky	31 Spiral Drive Florence, KY 41042	859-525-1128
Cincinnati Children's Hospital, Outpatient Clinic, KY	2765 Chapel Place Drive Crestview Hills, KY 41017	859-344-4735
Caldwell & Cook Hearing Services, Inc	3940 S. Danville Bypass Danville, KY 40422	859-236-3865
Head & Neck Surgery Associates	20 Medical Village Dr. #268 Edgewood, KY 41017	859-341-1100
Head & Neck Surgery Associates	40 N Grand #101 Fort Thomas, KY 41075	859-781-4900
Head & Neck Surgery Associates	7575 US 42 Florence, KY 41042	859-283-9100
Bluegrass ENT, Georgetown	1140 Lexington Road #205 Georgetown, KY 40324	859-277-3725
Bluegrass ENT, Lexington	1401 Harrodsburg Rd. #A580 Lexington, KY 40504	859-277-3725
Commission for Children with Special Health Care Needs, Lexington	333 Waller Ave #300 Lexington, KY 40504	859-252-3170 800-817-3874
Lexington Hearing & Speech Center	162 North Ashland Lexington, KY 40502	859-268-4545
Bluegrass Hearing Clinic	1036 Amberly Way #A Richmond, KY 40475	859-623-4458

●Level 1 Centers in Area Code 606 North●		
See bottom of the front page for a description of Level 2 and 1 Centers		
Commission for Children with Special Health Care Needs, Ashland	5350 US 60 Box 11 Ashland, KY 41102	606-929-9155 800-650-1329
The Hearing Center	1505 Carter Ave. #1 Ashland, KY 41101	606-324-0465
Southern ENT Associates-Ashland	613 23rd St., Plaza B #310 Ashland, KY 41101	606-326-0271
Commission for Children with Special Health Care Needs, Morehead	214 W First Street Morehead, KY 40351	606-784-3049 800-928-3049
●Level 1 Centers in Area Code 606 South●		
Commission for Children with Special Health Care Needs, Barbourville	110 Johnson Lane Barbourville, KY 40906	606-546-5109 800-348-4279
Southeast Kentucky Audiology ARH-Daniel Boone Clinic	1707 Cumberland Falls Hwy #U7 Corbin, KY 40701 37 Ball Park Road Harian, KY 40831	606-528-9993 606-574-8303 866-528-9993
A R Head & Neck Center	200 Medical Center Drive Hazard, KY 41701	606-439-4466
Southern ENT Associates-Paintsville	404 Euclid Avenue Paintsville, KY 41240	606-788-9304
Commission for Children with Special Health Care Needs, Prestonsburg	5000 KY Route 321 Highlands Regional Medical Center Prestonsburg, KY 41653	606-889-1761 800-594-7058
Cumberland Otolaryngology Consultants	402 Bogle St #3 Somerset, KY 42503	606-679-7426
●Level 1 Centers in Area Code 270 East●		
Sims & Boggess ENT	1325 Andrea #206 Bowling Green, KY 42104	270-782-7768
Ewing ENT	105 Greenbriar Dr. #A Campbellsville, KY 42718	270-465-3595
Commission for Children with Special Health Care Needs, Elizabethtown	580 B Westport Road Elizabethtown, KY 42701	270-765-6982 800-995-6982
Wolf & Yun, MD, PSC	906 Woodland Dr. #102 Elizabethtown, KY 42701	270-765-5127
Wilson ENT	102 C Physicians Blvd Glasgow, KY 42141	270-651-2433
Ewing ENT	325 W Walnut #200 Lebanon, KY 40033	270-692-5600
●Level 1 Centers in Area Code 270 West●		
Trover Clinic	200 Clinic Drive Madisonville, KY 42431	270-825-7377
Morgan-Haugh Medical Group	1111 Medical Center Circle Mayfield, KY 42066	270-247-8100
Murray State University- Speech & Hearing Clinic	125 Alexander Hall Murray, KY 40271	270-809-2446
Midwest ENT	2841 New Hartford Road Owensboro, KY 42303	270-691-6161
Audiology & Hearing Center	150 Brett Chase #B Paducah, KY 42003	270-554-6000
Commission for Children with Special Health Care Needs, Paducah	400 Park Ave, Bldg D Paducah, KY 42001	270-443-3651 800-443-3651
Ear, Nose & Throat Group	2601 Kentucky Ave #201 Paducah, KY 42003	270-575-0079
Purchase ENT	225 Medical Center Dr #304 Paducah, KY 42003	270-441-4319

Resources for Surrounding States	
Illinois Newborn Hearing Program, Division of Specialized Care for Children	800-322-3722
Indiana Dept of Health, Audiology Coordinator for UNHS/EHDI	888-815-0006
Ohio Department of Health, Infant Hearing Program	614-387-0135
Tennessee Newborn Hearing Program, Early Hearing Detection and Intervention	615-262-6160
Virginia Department of Health, Newborn Hearing Program	866-493-1090
West Virginia Office of Maternal Child and Family Health, Newborn Hearing Program	800-642-8522 800-642-9704
Missouri Department of Health and Senior Services, Newborn Hearing Program	800-877-6246

Level I and Level II Centers

- Level 2 Centers provide complete diagnostic follow-up assessment
 - Otoscopy
 - Tympanometry
 - Ipsilateral Acoustic Reflex
 - Contralateral Acoustic Reflex
 - Otoacoustic Emissions with diagnostic capabilities
 - Distortion Product or Transient
 - Ear Specific Behavioral Observation Audiometry
 - Speech Awareness Threshold evaluation and
 - Speech Reception Threshold evaluation
 - Play audiometry
 - Frequency Specific ABR
 - Bone Conduction ABR
 - Real Ear Measures

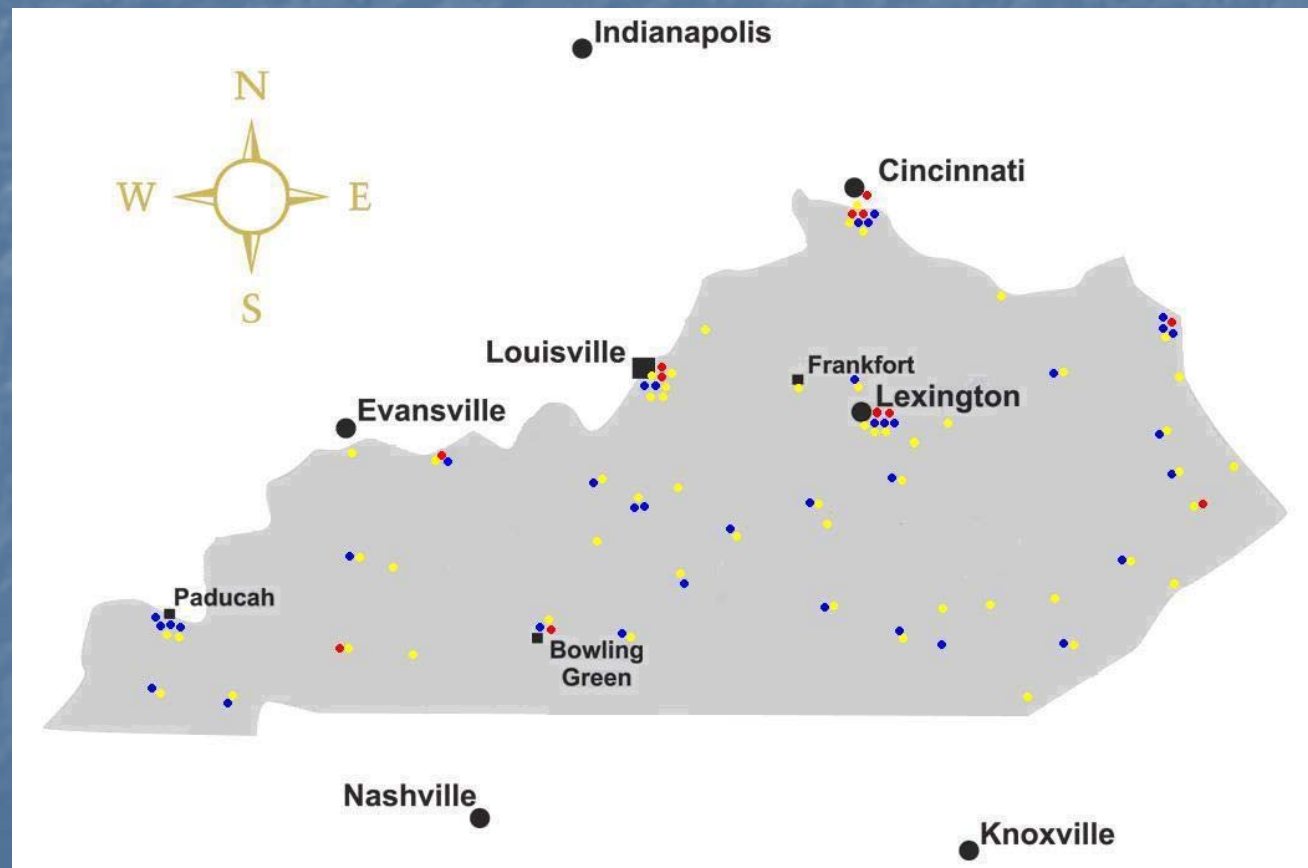
- Level 1 Centers provide diagnostic follow-up assessment with referral to a Level II center if necessary
 - Otoscopy
 - Tympanometry
 - Ipsilateral Acoustic Reflex
 - Contralateral Acoustic Reflex
 - Ear Specific Behavioral Observation Audiometry
 - Speech Awareness Threshold evaluation and
 - Speech Reception Threshold evaluation
 - Play audiometry
 - Either:
 - Otoacoustic Emissions with diagnostic capabilities (Distortion Product or Transient) or
 - Screening ABR, with threshold information available

Kentucky Diagnostic Centers and Birth Hospitals

Birth
Hospitals-
Yellow

Level 1
Centers-Blue

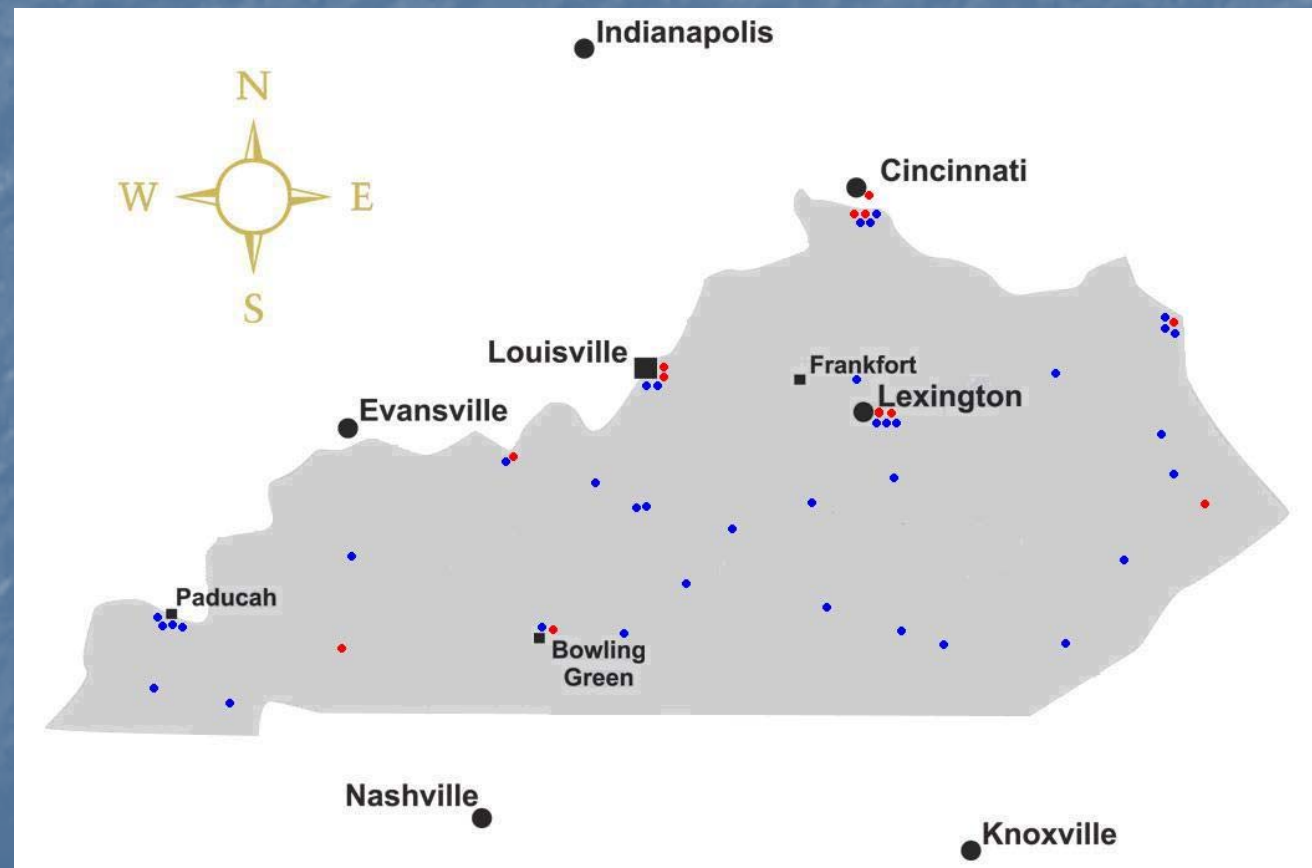
Level 2
Centers-Red



Kentucky Diagnostic Test Centers

Level 1
Centers-Blue

Level 2
Centers-Red



KY CHALLENGES IDENTIFIED

- PERSONNEL ISSUES:
 - HOSPITAL STAFF TURNOVER
 - EHDI STAFF TURNOVER
- QUALITY OF DIAGNOSTIC AUDIOLOGY SERVICES
- ACCOUNTABILITY
- FRACTURED SERVICE AVAILABILITY
THROUGHOUT THE STATE

MCHB Grant

- Chose to build local capacity
- Committee of Stakeholders
- Identify barriers unique to their community
- Share information – Team building Meeting

THREE COMMUNITIES

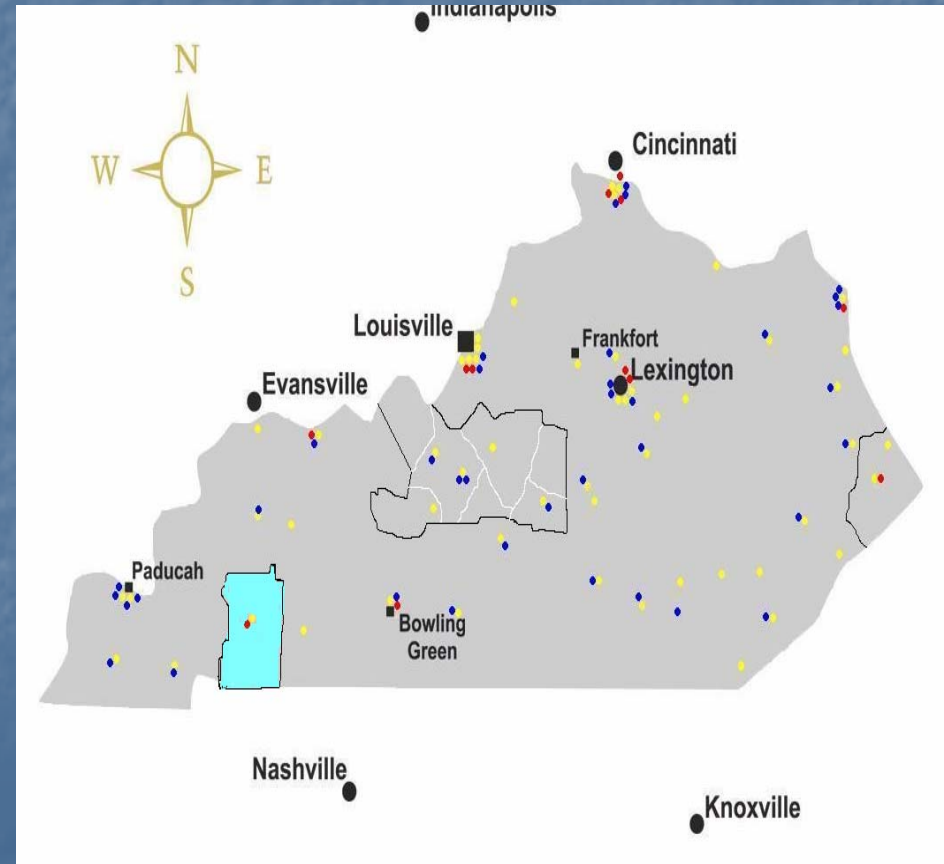
- Different demographics and levels of need.
- Pilot programs were asked to develop working solutions to stated goals and objectives
- Duplication of successful programming in other areas of the state

Community Partners Identified

- Western Kentucky-Christian County
- Central Kentucky – Lincoln Trail District Health Department
- Eastern Kentucky – Pike County

CHRISTIAN COUNTY

- One birthing facility
 - Jennie Stuart Medical Center-Level II NICU
 - Birthrate-819 births for 2006
 - Refer Rate of 3.7%
 - Additional Resident County births recorded at smaller hospitals or "at home".



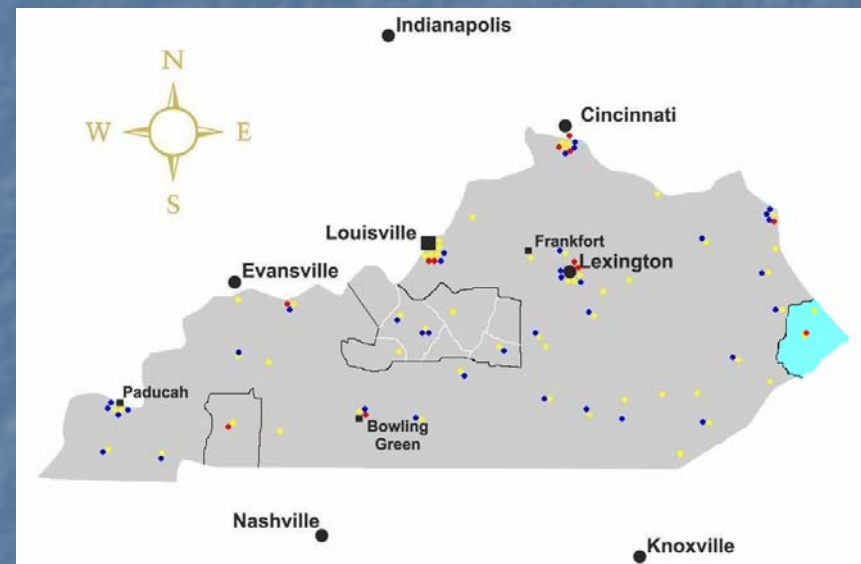
LTDHD

- 7 counties: Grayson, Hardin, Larue, Meade, Nelson, Washington, Marion
- 5 birthing facilities
 - Approximately 1250 births/year
 - County resident births also recorded in 10 additional hospitals



PIKE COUNTY

- Two birthing facilities
 - Williamson ARH
 - Birthrate – 203
 - Refer rate – 7%
 - Pikeville Medical Center Level II NICU
 - Birthrate – 863
 - Refer rate – 2.6%



BUILD COMMUNITY CAPACITY FOR EHDI AT LOCAL LEVEL

- Goal 1: *Facilitate the development of community partner teams*
 - *Physician/pediatrician*
 - *Audiologist*
 - *Speech pathologist*
 - *Educational Cooperative*
 - *Teacher of the Deaf/Hard of Hearing*
 - *Parent of deaf or hard of hearing child*
 - *Deaf or hard of hearing consumer*
 - *Birth hospital personnel*



BUILD COMMUNITY CAPACITY FOR EHDI AT LOCAL LEVEL

- Goal 2: Increase accessibility of objective audiological and medical diagnostic services for referrals from UNHS screenings



BUILD COMMUNITY CAPACITY FOR EHDI AT LOCAL LEVEL

- *Goal 3: Increase the number of infants receiving diagnostics by 3 months of age following a referral from UNHS to hospital discharge and the reporting follow-up to the CSHCN-EHDI database*

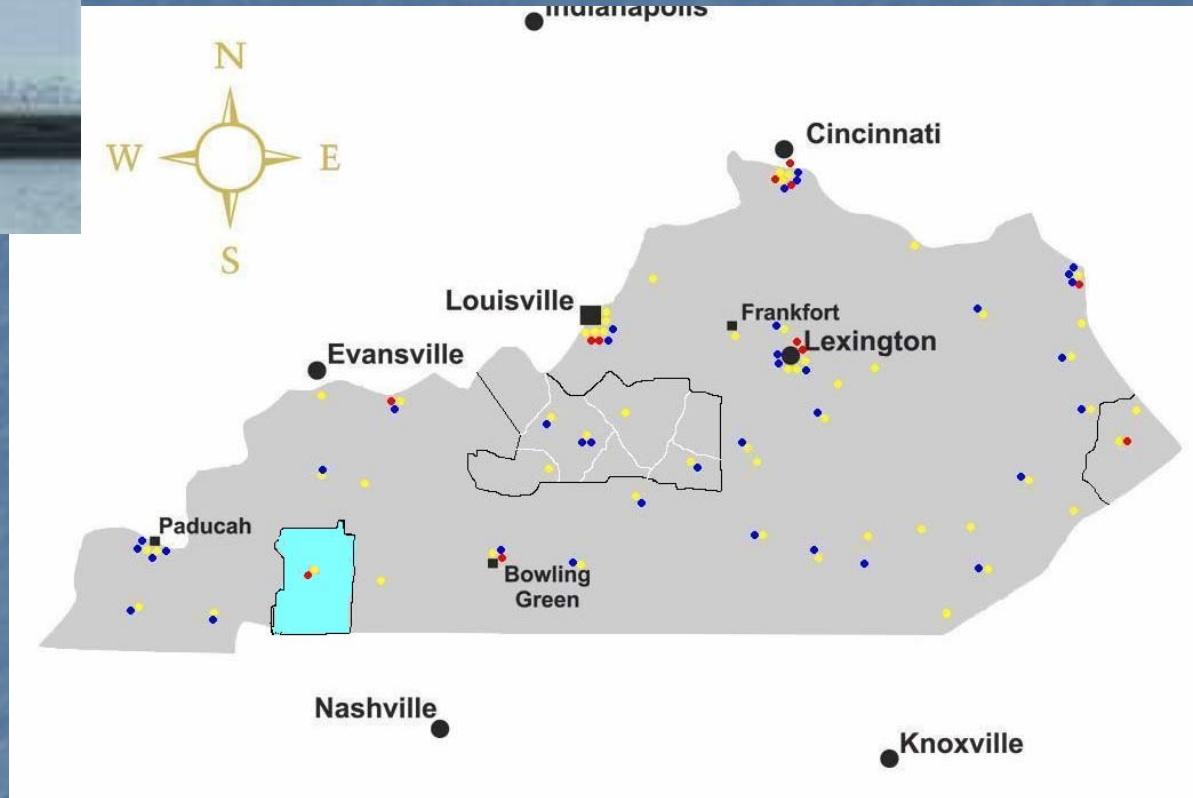


BUILD COMMUNITY CAPACITY FOR EHDI AT LOCAL LEVEL

- Goal 4: *To improve community knowledge, acceptance and support for those infants and young children identified as Deaf or Hard of Hearing and their families*

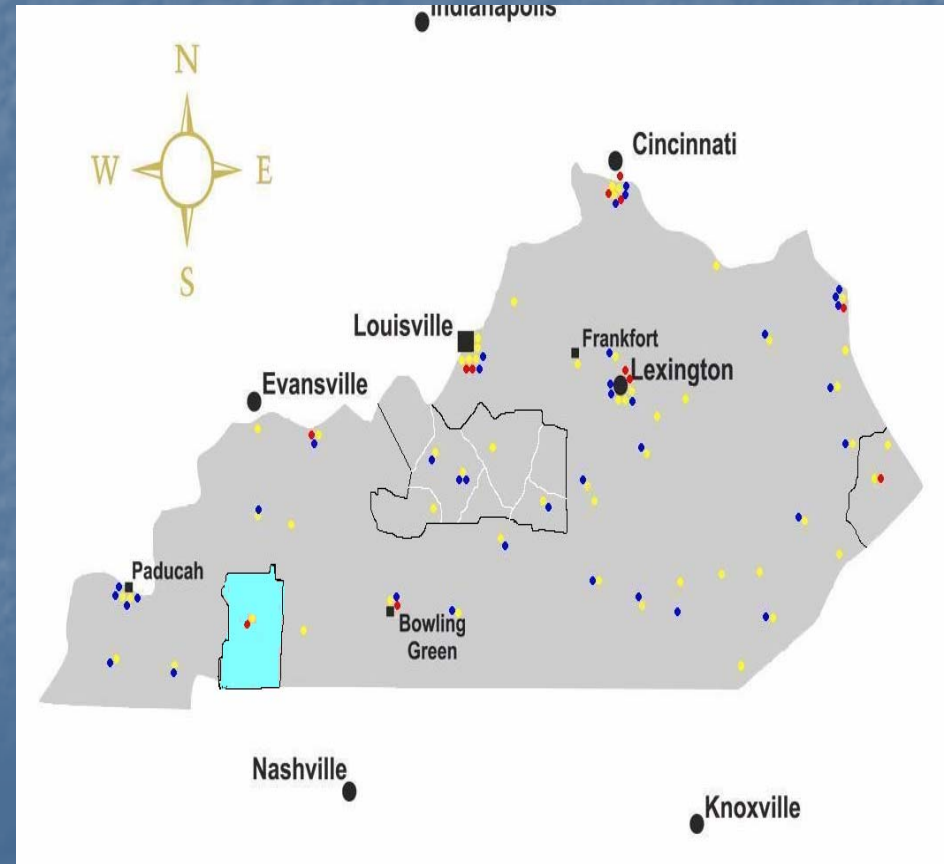


Christian County



CHRISTIAN COUNTY

- One birthing facility
 - Jennie Stuart Medical Center-Level II NICU
 - Birthrate-819 births for 2006
 - Refer Rate of 3.7%
 - Additional Resident County births recorded at smaller hospitals or "at home".



CHRISTIAN COUNTY

Obstacle/barriers To EHDI follow- up	Proposed solution	Outcome
<p>Community Private Practice Audiologist lacked technology and ability to bill for services.</p>	<p>Purchased equipment - initially housed at local hospital who billed for services and contracted with Audiologist provider. Equipment now housed at Private Practice Audiologist Facility and Hospital has a direct referral pathway to Audiologist.</p>	<p>Hospital selected equipment with audiologist and arranged for space and billing services.</p>

CHRISTIAN COUNTY

Obstacle/barriers To EHDI follow- up	Proposed solution	Outcome
Local Hospital has NICU, but Only doing OAE screens	Researched and purchased ABR screener for hospital	Ordered December 2005 Delivered and staff trained February 2006

CHRISTIAN COUNTY

Obstacle/barriers To EHDI follow- up	Proposed solution	Outcome
Referral pathway undefined	Coordinator at JSMC and audiologist to work on solution	March, 2006 to present: direct referral pathway defined and implemented

CHRISTIAN COUNTY

Obstacle/barriers To EHDI follow- up	Proposed solutions	Outcome
No system/equipment to offer Home birth infants screening	Track home births, Submit Hearing Screen Reports to state Screen with equipment as available	In October 2005. OAE machine loaned from CSHCN. Based on usage of equipment, recommended purchase of OAE screening equipment- April 2007

CHRISTIAN COUNTY

Obstacle/Barrier to Follow-up	Proposed Solution	Outcome
Outreach to neighboring county/Birthing hospital-screening equipment could not be repaired, did not have a printer or database available	Purchase screening AABR for hospital	Discussion began in January 2007 during EHDl coordinator's technical assistance visit with hospital. Equipment purchased- Feb/March 2007

CHRISTIAN COUNTY

Obstacle/Barrier to EHDI Follow-up	Proposed Solutions	Outcome
Lack of knowledge about newborn hearing screening in neighboring county	Public outreach with billboard advertisement for EHDI	Billboard placed in November 2007 at Muhlenberg Community Hospital

Can your baby hear?

1 in 300 babies has a hearing loss.

Early Hearing Detection
and Intervention

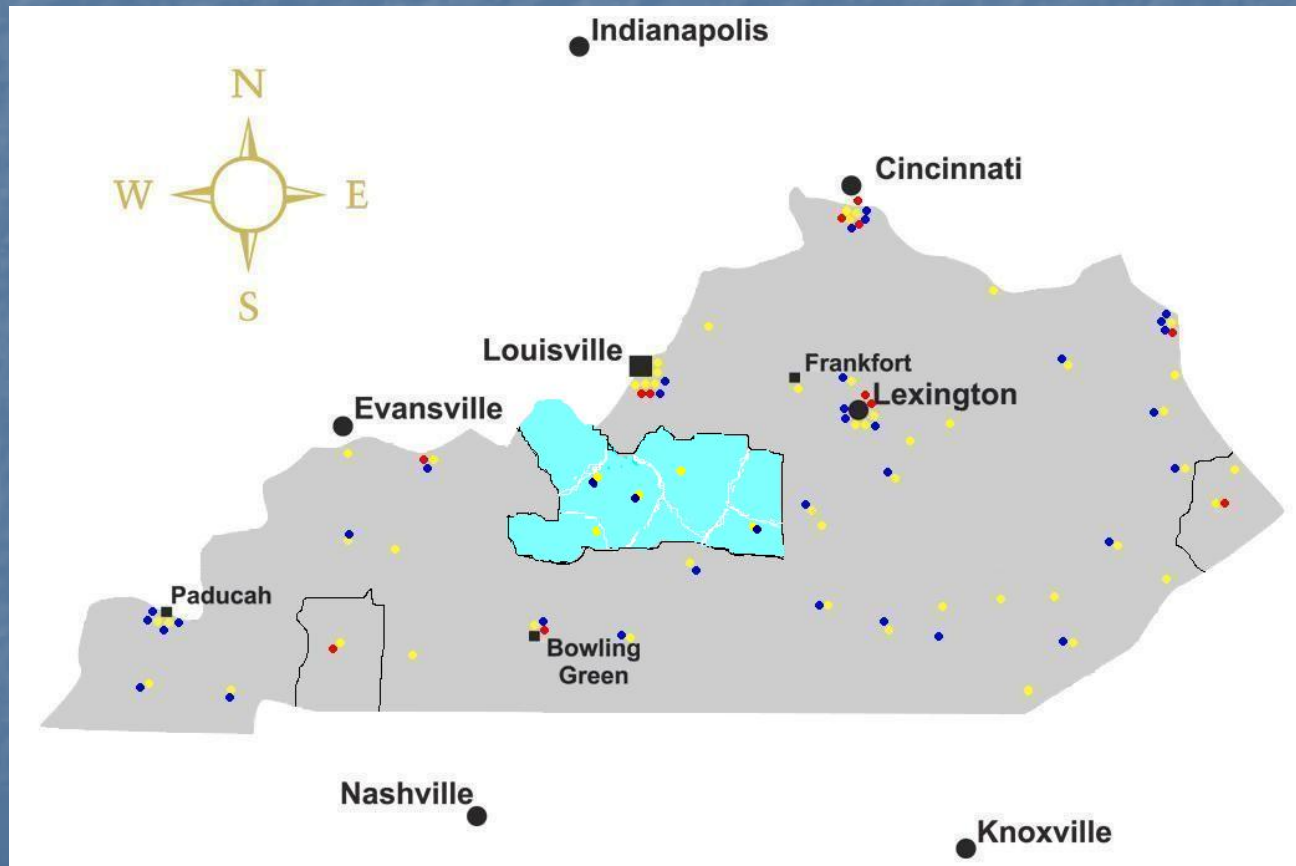
1-877-757-4321



Muhlenberg Community Hospital



Lincoln Trails District Health Department



LTDHD

- 7 counties: Grayson, Hardin, Larue, Meade, Nelson, Washington, Marion
- 5 birthing facilities
 - Approximately 1250 births/year
 - County resident births also recorded in 10 additional hospitals



Lincoln Trail District Health Department

■ Identified Barriers

- Difficulty obtaining local information on infants in need of services

■ Proposed solutions/Outcomes

- Coordination with birth hospitals to obtain newborn hearing screening results
- Coordination with pediatric practice in Bardstown
 - AABR/OAE rescreening equipment purchased
 - Results to BCC committee as well as EHDI Program

Lincoln Trail District Health Department

- Identified Barriers
 - Lack of resources and support for parents
- Proposed solutions/Outcomes
 - Attempted to recruit a “parent mentor” to be able to contact families and encourage follow up.
 - Unsuccessful to date.

Lincoln Trail District Health Department

■ Identified Barriers

- Lack of uniform parent educational materials.

■ Proposed solutions/Outcomes

- EHDI Brochure, May '06
 - English and Spanish versions
- Speech/Language Milestones, May '06
 - English and Spanish versions
- Opening Doors, in process
 - Parent information booklet

Speech and Language Milestones

COMMONWEALTH OF KENTUCKY
 CABINET FOR HEALTH AND FAMILY SERVICES
 COMMISSION FOR CHILDREN WITH SPECIAL HEALTH CARE NEEDS
UNIVERSAL NEWBORN HEARING SCREENING PROGRAM
 982 Eastern Parkway, Building B
 Louisville, Kentucky 40217
 1-877-757-4327



IS YOUR BABY HEARING YOU?

Make sure your child can hear you say "I love you". Endless days of silence – or muffled voices – can result in a lifetime of learning problems. Hearing loss can happen at any time. Your infant's hearing can be tested anytime after birth.

Post this hearing checklist and use it monthly. If you suspect a hearing problem, call your doctor as soon as possible. YOUR child is counting on you.

My Child's Hearing Checklist:

During the first three months, does your child:

- React when a familiar voice is heard?
- Act startled when a loud sound happens nearby?

When your child is 3-6 months, does your child:

- Turn head to search for the source of your voice?
- Enjoy rattles and other rattle-making toys?
- Look to the speaker's voice?



When your child is 6-10 months, does your child:

- React to music by cooing?
- Understand common words like "no," "bye," "all-gone," and "highly-right?"
- Babble by saying sounds like "mama," "baba," or "mama?"

When your child is 10-15 months, does your child:

- Know the names of favorite toys and point them out when asked?
- Respond positively to rhymes and jingles like "papa-cake" or "peek-a-boos"?
- Intake simple words and sounds?

When your child is 15-20 months, does your child:

- Follow simple directions such as "go get your shoes," or "bring the book to me"?
- Recognize names of body parts such as nose, eyes, ears, and hair?
- Speak 10-20 words? (Words may not be clear but you understand them.)

When your child is 20-24 months, does your child:

- Combine simple words such as "daddy work" or "go bye-bye"?
- Refer to self by name?
- Show interest in the sounds of radio and television?

SPEECH AND LANGUAGE DEVELOPMENT MILESTONES CHECKLIST FOR PARENTS

Child's Age	Talking	Yes
0 to 6 Months 	<ul style="list-style-type: none"> Does your child make cooing and cooing sounds? Does your child cry differently for different needs? Does your child make many different types of sounds? Does your child make sounds in response to speech? 	
7 Months to 1 Year 	<ul style="list-style-type: none"> Does your child laugh a lot? Does your child seem to get your attention? Does your child make sounds like talking, but without real words? Does your child try to name familiar toys, people or things? Does your child try to imitate words? 	
1 to 2 Years 	<ul style="list-style-type: none"> Has your child started to name pictures? Has your child started to use 1-2 words together? Is your child saying more and more words every month? Does your child use many different common words at the beginning of words? 	
2 to 3 Years 	<ul style="list-style-type: none"> Does your child use 3 to 4 word sentences? Does your child ask "what" and "where" questions? Does your child pronounce many sounds, but not very correctly? Does your child use "me" and "me" in phrases? Can you understand your child's speech most of the time? Does your child have a word for almost everything? 	
3 to 4 Years 	<ul style="list-style-type: none"> Does your child ask many questions, including why? Does your child use sentences about 4-5 words long? Can your child tell a simple story? Can your child generally be understood by strangers? 	

Print your child's age and answer the questions about their talking, hearing and understanding. No child is too young to be assessed. If you are concerned about your child's development, talk to your physician and ask for a referral to appropriate health professionals.

All Yes: GOOD! Your child is developing hearing, speech and language normally.
1-2 No: CAUTION! Your child may have delayed hearing, speech, and language development.
3 or More No: ACTION! Take your child for professional help.

EHDI Brochure

Many babies with hearing loss will startle to loud sounds. Only a hearing test can tell you if your baby has a hearing loss.

Some babies may need further hearing testing even if they passed a hearing screening at birth. It is important to talk with your child's doctor and make an appointment for further testing if:

- You have a family member with permanent hearing loss since childhood
- Your baby was exposed to an infection before birth
- Your baby or you had an infection at birth such as sepsis, or cytomegalovirus.
- Your baby had an infection of the brain after birth such as meningitis.
- Your baby had severe "yellow jaundice."
- Your baby's head, face, or ears have an unusual shape or form.
- Your baby had breathing difficulty at birth or immediately following birth.
- Your baby had a head injury.
- Your baby was given medications that can harm hearing.
- Your baby had to stay in the Neonatal Intensive Care Unit for more than 5 days.

The Early Hearing Detection & Intervention Program helps families get the services they need. Call today if you have any questions or want to know where to get a hearing test.

1-877-757-4327

1 * 3 * 6
For Newborn Hearing

Screening *before 1 month of age.*
Diagnosis *before 3 months of age.*
Early Intervention *before 6 months of age.*

If you have concerns about your child's hearing, or want to schedule a hearing test, contact your child's doctor and call the Universal Newborn Hearing Screening Program for help.

Toll Free
1-877-757-4327

A CHILD IS NEVER TOO YOUNG FOR AN ACCURATE HEARING TEST!



Commission for Children with Special Health Care Needs
Early Hearing Detection & Intervention Program
822 Eastern Parkway
Building B
Louisville, KY 40217
Phone: 577-757-4327
Fax: 602-856-7562
<http://ehdi.ky.gov/ehdi.htm>

EHDI Brochure 1/11/07

Twinkle, twinkle little star

How I wonder

what you are!



Can your baby
hear this
nursery
rhyme?

Kentucky's
Early Hearing Detection &
Intervention Program
1-877-757-4327



<http://ehdi.ky.gov/ehdi.htm>
KENTUCKY CABINET FOR HEALTH AND FAMILY SERVICES
KENTUCKY UNBRIDLED SPIRIT.COM

EHDI BROCHURE

What is a screening?

All babies are checked for signs of possible health concerns. These checks are called screenings.

Why is it important to have your baby's hearing screened?

If your baby has a hearing loss it is important to find out early and get care to help with learning and language.



How is the hearing screening done?

Your hospital has a special machine to check your baby's hearing.

The check is simple and does not hurt.

You will get the results before you leave the hospital.

What does it mean if your baby does not pass the hearing screening?

If your baby does not pass the hearing screening, it means that your baby needs further hearing testing. These tests will give you more information about your baby's hearing.

Follow-up testing is very important. If your baby has a hearing loss, you will want to find out early.



About 3 to 4 babies out of every 1000 babies will have some form of hearing loss at birth.

Where do you go for follow up hearing testing?

If your baby doesn't pass the hearing screen, you will receive a list of clinics to contact for follow up hearing testing from Kentucky's Universal Newborn Hearing Screening Program.



What if I'm told my child has a hearing loss?

Talk to your baby's doctor **and** audiologist.

Ask about local services for babies with hearing loss.

If you have any more questions, please call 1-877-757-4327.

Lincoln Trail District Health Department

■ Identified Barriers

- Lack of available diagnostic ABR equipment and providers in 3 of 7 counties

■ Proposed solutions/Outcomes

- Coordination with Danville, KY audiologist
- Diagnostic ABR equipment recently purchased for placement in her practice with Memorandum of Agreement.

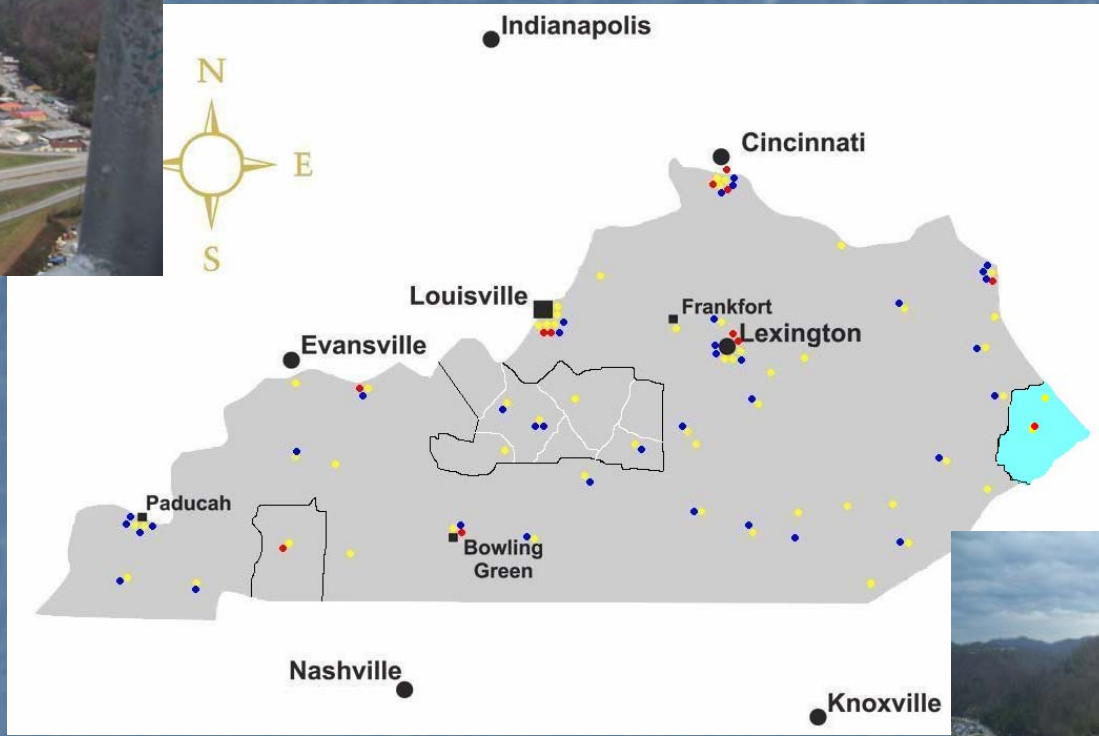
Lincoln Trail District Health Department

- Identified Barriers
 - Many infants born outside of KY birthing hospitals
- Proposed solutions/Outcomes
 - Ongoing coordination with Health Department clinics to complete Hearing Screening Report forms for transmittal to EHDI program and LTDHD committee.

Lincoln Trail District Health Department

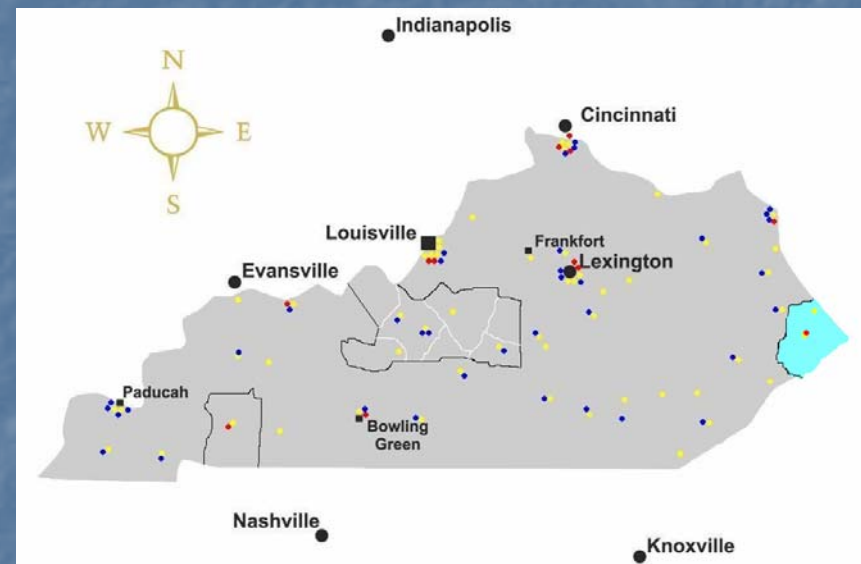
- Identified Barriers
 - Lack of EHDI knowledge and awareness by area physicians
- Proposed solutions/Outcomes
 - CME offerings to area physicians by AAP EHDI Chapter Champion.

Pike County

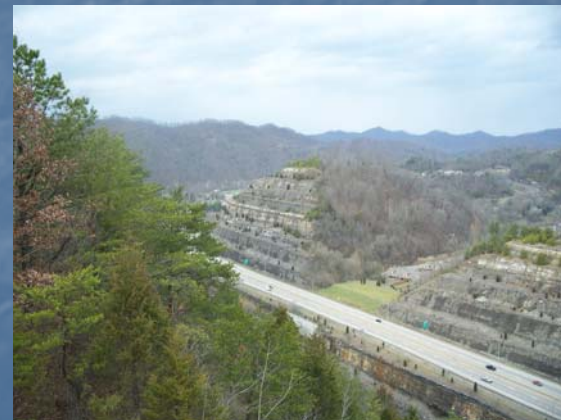


PIKE COUNTY

- Two birthing facilities
 - Williamson ARH
 - Birthrate – 203
 - Refer rate – 7%
 - Pikeville Medical Center Level II NICU
 - Birthrate – 863
 - Refer rate – 2.6%



Pike County



PIKE COUNTY

Obstacle/barriers To EHDI follow-up	Proposed solutions	Outcome
Lack of community knowledge concerning the importance of early hearing detection and intervention	Dissemination of information and materials to target audience	Began 8/05 and continuing <ul style="list-style-type: none">• Table sponsored at Pike County Baby Shower (August 2005)• Sponsored at table at the WIC (Women, Infants, and Children) fair at the Pike County Health Department

PIKE COUNTY

Obstacle/barriers To EHDI follow-up	Proposed solutions	Outcome
Lack of community knowledge concerning the importance of early hearing detection and intervention	Dissemination of information and materials to target audience	Began 8/05 and continuing <ul style="list-style-type: none">• Article in "The Medical Leader" published by the Pikeville Medical Center (September 2005)• Pediatrician Luncheon and Dinner - Kentucky AAP Chapter Champion (March 2006)

Just In Time

So your baby's care is right on time

Is Your Child "AT RISK" for Hearing Loss?

If you checked one or more boxes below, your child may be at risk for hearing loss.

- Spent 48 hrs or more in the Neonatal Intensive Care Unit (NICU)
- Has a condition (neurological disorder) that is associated with hearing loss (check with your health care provider)
- Exposed to infection before birth
- Family history of children with hearing loss
- Head, face, or ears may be shaped or formed in a different way than usual
- Infection around the brain and spinal cord caused by bacteria (bacterial meningitis)
- Bad jaundice (hyperbilirubinemia) in babies that needed a special procedure (exchange transfusion)
- Bad injury to the head (that needed medical care)
- Ear infections with fluid that last a long time
- You are worried about your child's hearing

Ask your child's health care provider for information & help

Schedule an appointment

Have your child's hearing checked every 6 months



Early Hearing Detection and Intervention
www.cdc.gov/ncbddd/ehdi

AREA RESOURCES

Audiologists experienced with Infant Population and local Otolaryngologists

Diagnostic Evaluations

East Kentucky Eye, Ear, Nose and Throat Specialists

1098 S Mayo Trail Pikeville KY 40501
(606) 432-4494

Dr. Gregory V. Hazlett DO,
Dr. Kay Hazlett MD,
Dr. Mike T. Cecil MD,
Danita Thompson PA-C
Audiologist Alecia Manning MS, CCC-A

Highlands Regional Medical Center

5000 Route 321 Prestonsburg KY 41653
Dr. Gregory Baker
(606) 886-1499

Ear Nose and Throat Physicians of Eastern KY

133 S. Mayo Trail Pikeville KY 41501
Dr. Vannan
(606)432-0111

Dr. Manosh Vongvises

Professional Associates Building South
Mayo Trail, Pikeville KY 41501
(606) 432-3277

Commission For Children With Special Health Care needs

Prestonsburg office located at
Highlands Regional Medical Center
(606)889-1761
1-(800) 594-7058

Ashland Regional Office (covers
Pikeville Otolary Clinic)
5850 Us 60 Box 11 Ashland KY 41102
1-(800)650-1329

Audiologist for both offices
LizEllen Snyder, AUD
UNHS Eastern Regional office
333 Waller Ave Suite 300
Lexington KY 40524
1-(800)817-3874

Local Early intervention System:
First Steps 1-(800)230-6011

STATE RESOURCES

Statewide Family Support Center
at the Kentucky School for the Deaf
PO Box 27
Danville, KY 40423
859-239-7017 ext 2503 TTY
502-897-1583 ext. 108

Kentucky School for the Deaf
Statewide Educational Resource
Center on Deafness
Early Childhood Education Services;
Danville, KY 40423; 859-239-7017 ext
2136 (V/TTY)

Lexington Hearing & Speech Center
Diagnostic services, early intervention
and pre-school program, cochlear
implant consultation, evaluation, and
more.

162 North Ashland Avenue; Lexington,
KY 40502 (859)268-4545 (V/TTY)

Louisville Deaf Oral School

Comprehensive early educational
programs/services for children who are
deaf or hard of hearing
111 E. Kentucky Street; Louisville, KY
40203 (502)636-2084 (V)

Kentucky Commission on the Deaf and Hard of Hearing

Resource and advocate for deaf and
hard of hearing persons
632 Versailles Road
Frankfort, KY 40601 800-372-2907
(V/TTY)

Parent Information Network of Kentucky (PINK)

Family support and information
P.O. Box 5266; Louisville, KY 40255-
0266;
502-452-7465

Kentucky Deaf Blind Project

229 Taylor Education Building
Lexington, KY 40506;
Or
1867 Frankfort Ave
Louisville, KY 40206
502-897-1583 ext. 279

Special Parent Involvement Network, Inc. (SPIN)

Provides training, information and
support 10301-B Deering Road;
Louisville, KY 40272
800-525-7746

NATIONAL RESOURCES

Alexander Graham Bell Association for the Deaf

3417 Volta Place NW
Washington, DC 20007
(202) 337-5220 (V/T)
<http://www.agbell.org>

American Society for Deaf Children

PO Box 3355
Gettysburg, PA 17325
1-800-942-ASDC
<http://www.deafchildren.org>

Auditory-Verbal International, INC

2121 Eisenhower AVE. Ste.
402Alexandria, VA 22314(703) 739-
0874
<http://www.auditory-verbal.org>

John Tracy Clinic

806 West Adams Boulevard
Los Angeles, CA 90007
(800) 522- 4582
<http://johntracyclinic.org>

National Cued Speech Association

23970 Hermitage Road
Cleveland, OH 44122-4008
(800)459-3529
<http://www.cuedspeech.com/index.html>

Telecommunications for the Deaf, Inc.

8630 Fenton Street, Ste. 604
Silver Springs, MD 20910-3803(301)
598-3006
<http://www.tdi-online.org>

National Center for Hearing Assessment and Management (NCHAM)

Utah State University
2880 Old Main Hill
Logan, Utah 84322
Tel: 435.797.3584
<http://www.infanthearing.org>

National Information Center on Deafness

Gallaudet University
800 Florida Avenue NE
Washington, DC 20002-3695

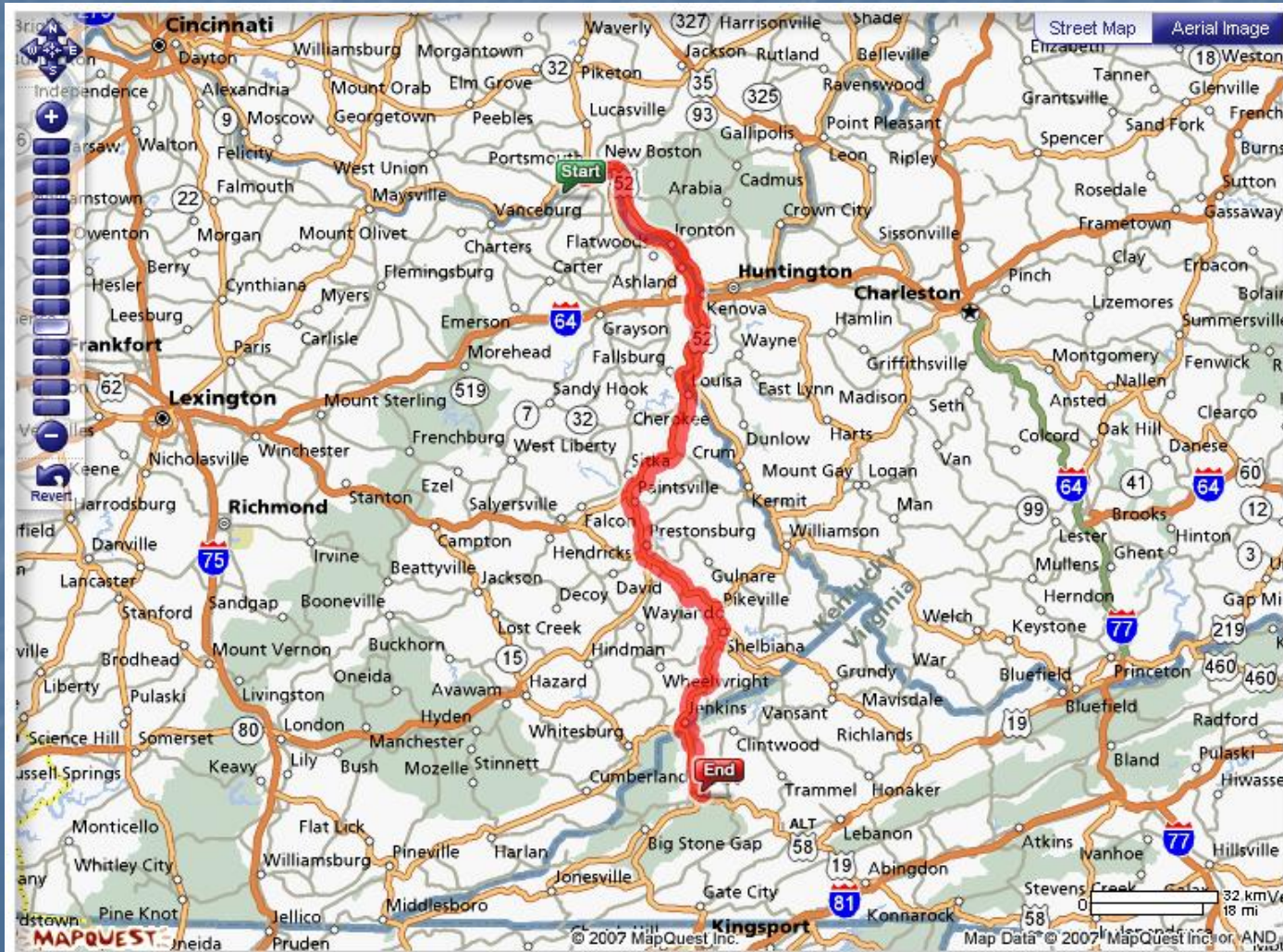
PIKE COUNTY

Obstacle/barriers To EHDI follow-up	Proposed solutions	Outcome
Lack of community knowledge concerning the importance of early hearing detection and intervention	Dissemination of information and materials to target audience	<ul style="list-style-type: none">• Two billboards along Highway 23 (30,000 cars per day) April 2007

Pike County



Pike County



Pike County



PIKE COUNTY

Obstacle/barriers To EHDI follow-up	Proposed solutions	Outcome
Lack of access to diagnostic audiology equipment; closest Level II diagnostic center 1.5 hours or more away	Partner with local entity to obtain technology needed in area	VRA and ABR Equipment purchased March 2006/ High Frequency Tympanometry/ ABR Bone Conduction

PIKE COUNTY

Obstacle/barriers To EHDI follow-up	Proposed solutions	Outcome
<p>Continuous monitoring of hearing for ages birth to 3 years who are at risk for late onset of hearing loss who may not otherwise be receiving hearing services.</p>	<p>Work with Pike County Health Department to provide periodic OAE screening for the birth to 3 year population. Training for staff and setting of protocols Work with NCHAM ECHO project for training and protocols.</p>	<p>DPOAE screening at the Health Department</p>

PIKE COUNTY

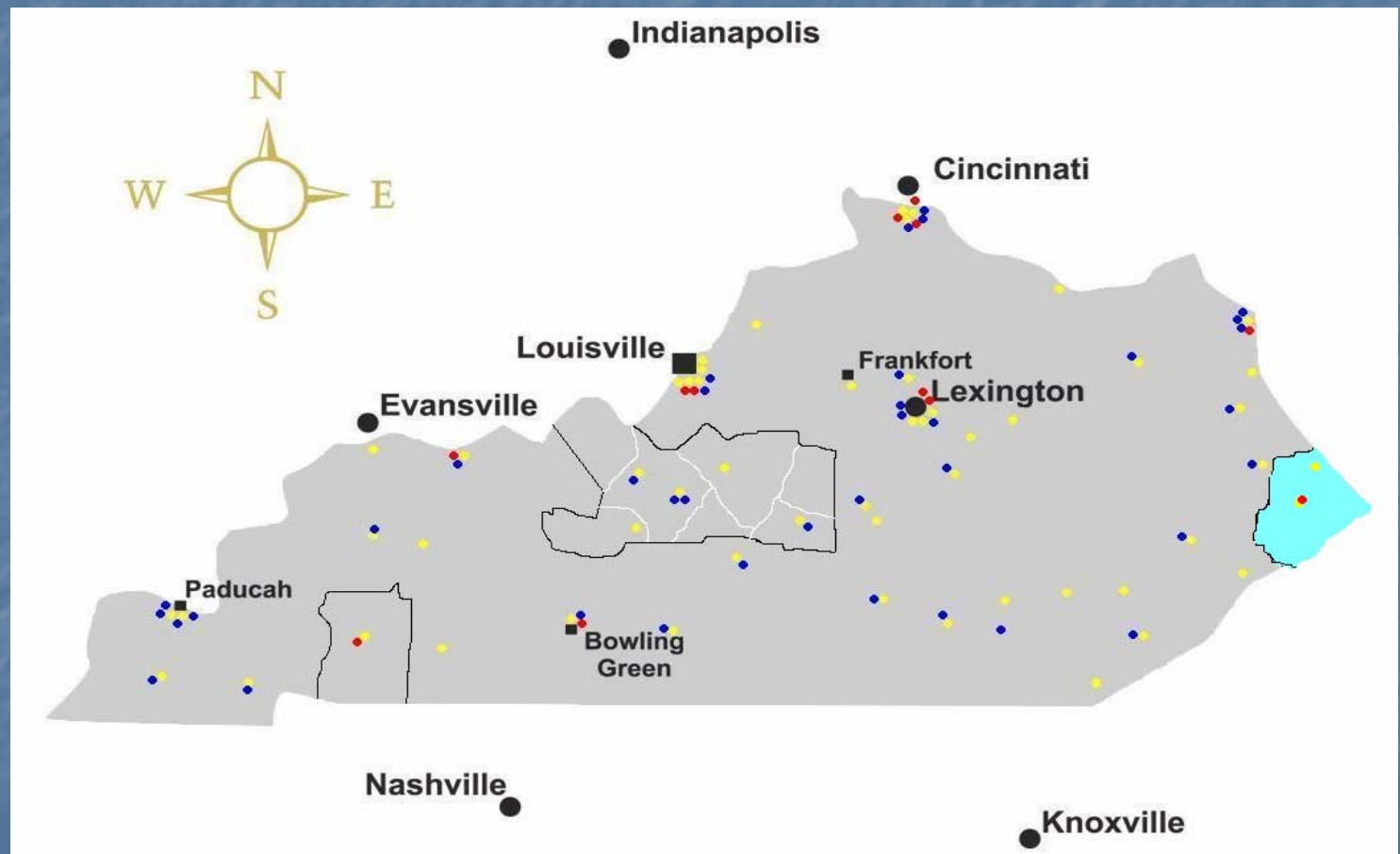
Obstacle/barriers To EHDI follow-up	Proposed solutions	Outcome
Undefined referral pathway ; closest Level II diagnostic center 1.5 hours or more away	Assist and encourage families who have an infant who referred on newborn hearing screening to seek audiological follow-up	Began in summer 2005 and continuing

Pike County

Birth
Hospitals-
Yellow

Level 1
Centers-
Blue

Level 2
Centers-
Red



PIKE COUNTY

Obstacle/barriers To EHDI follow-up	Proposed solutions	Outcome
No formal family support in area or adjacent area	Work with teachers of the deaf and hard of hearing in the area and provide a one day learning vacation for families with children who are deaf and hard of hearing. follow-up	Family Day/Fall Gathering (September 2007)

Pike County

Special Education Cooperatives



Pike County



Family Day



Pike County

Family Day



STATEWIDE

Obstacle/barriers To EHDI follow-up	Proposed solutions	Outcome
Lack of a cohesive family support network.	Improve collaboration between professionals and parental support groups for EHDI	Began 7/06 – continuing

STATEWIDE

Obstacle/barriers To EHDI follow- up	Proposed solutions	Outcome
Lack of targeted education for area physicians	Provide CME opportunities with AAP Chapter Champion regarding EHDI	Began July 05, Dr. Dan Stewart presented to physicians at Jennie Stuart Medical Center, Hardin Memorial Hospital, Williamson ARH, and Pikeville Medical Center

STATEWIDE

Obstacle/barriers To EHDI follow-up	Proposed solutions	Outcome
Lack of knowledge regarding EHDI	Statewide teambuilding meeting with presentations by EHDI stakeholders and national programs	April 2006 Representatives From all communities were required to attend

STATEWIDE

Obstacle/barriers To EHDI follow-up	Proposed solutions	Outcome
Early Intervention education/training issues Working with Deaf and Hard of Hearing Children	SKI-HI parent advisor training for early interventionists working with infants and families.	3 day training occurred in June, 2007 3 day training in July 2007 25 people trained

ACCOMPLISHMENTS

- Improved Communication: Among hospitals, families, physicians, diagnostic audiologists and state EHDI reporting system
- Improved access: Increased the availability of diagnostic audiology services for 0-6 month. Increased re-screening in communities.
- Increase EHDI Awareness: Outreach activities, to families, CEUs for allied health, CMEs for physicians

Lessons learned

- The value of having a lead person who is a “go getter” and well organized in each local community to work and partner with agencies
- The value of having an individual’s knowledgeable of community barriers and the resources that are available to overcome those barriers.
- The value of having individuals experienced in working with community based programs

SOME FUTURE PLANS

Christian County	LTDHD	Pike County
Placement of diagnostic follow-up equipment in ENT's office in Muhlenberg County	Collaborate with audiologists in bordering counties to LTDHD for provision of services	Additional public outreach with billboard advertisement and educational materials for EHDI

STATEWIDE CONTINUOUS PARTNERSHIPS

- HOSPITAL COMPLIANCE GUIDES/VISITS
- AUDIOLOGY OUTREACH
- PHYSICIAN OUTREACH
- CEU PRESENTATIONS
- ADVISORY BOARD STATEWIDE
- COMMUNITY BASED ADVISORY BOARDS

ACKNOWLEDGMENTS

- Pike County Health Department
- Pennyryle Allied Community Services-Christian County
- Lincoln Trail District Health Department
- Michelle King, CCC-A, AUD-EHDI Administrator State of Kentucky
- MCHB HRSA Grant 93.251 H61MC00033-05-00

COMMENTS/QUESTIONS

