Maternal and Child Health Project Abstract

Project Title: Universal Newborn Hearing Screening and Intervention
Project Number: CFDA #93.251
Project Director: Richard Raymond, MD Phone: 402-471-8566
Grantee: Nebraska Dept of Health and Human Services, Newborn Hearing Screening Program 301 Centennial Mall South, P.O. Box 95044, Lincoln, NE 68509-5044
Contact Person: Jeff Hoffman, CCC-A, Program Manager
Phone: 402-471-6770 Fax: 402-471-1863 E-mail: jeffrey.hoffman@hhss.ne.gov
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ABSTRACT

Problem: Hearing loss at birth is estimated to affect 1 to 3 per thousand newborns. With 26,000 annual births, Nebraska can anticipate identifying up to 75 infants annually through the Newborn Hearing Screening Program and the tracking and follow-up systems. All birthing facilities in Nebraska are conducting newborn hearing screening. Access to audiologists and medical specialists is more limited in the rural areas of the state, where all or part of 73 of the 93 counties are Medically Underserved Areas and Medically Underserved Populations.

Goals: Goal 1 - The hearing of all newborns born in Nebraska will be screened during the birth admission or, if born out-of-hospital, by one month of age. Goal 2 – All newborns who "refer" on the initial outpatient hearing screening during will complete an audiological diagnostic evaluation prior to 3 months of age. Goal 3 – All infants with a confirmed hearing loss will begin receiving early intervention services prior to six months of age Goal 4 – All infants with a confirmed hearing loss will have a medical home. Goal 5 – Families of young children with a confirmed hearing loss will have access to a family-to-family support system. Goal 6 – The hearing of young children in Nebraska will be screened at various times prior to age 3. Goal 7 – Hearing health professionals will increase their capacity to provide appropriate services to young children. Goal 8 – NNHSP will provide an effective structure for the newborn hearing screening and intervention system in Nebraska.

Methodology: Development of the integrated electronic data system, revision of reporting protocols, development of improved referral and tracking systems, promotion of the medical home approach, support for creation of family-driven support systems, professional development activities to include extending otoacoustic emissions hearing screening to Early Head Start programs and possibly community health clinics, partnering with Boys Town National Research Hospital and National Center for Hearing Assessment and Management on research projects. **Coordination:** Collaborative partners include the Newborn Screening and Genetics Program, MCHB/Title V, Medically Handicapped Children's Program, Early Development Network (Part C), Office of Programs for Children with Sensory Impairments, Head Start State Collaboration Office, PTI-Nebraska Nebraska Chapter Champion for American Academy of Pediatrics, Boys Town National Research Hospital, Early Childhood Training Center, and Nebraska Hospital Association.

Evaluation: Legislatively-required reporting is the basis for evaluating the effectiveness and timeliness of hearing screening. Evaluation measures will be developed by the Advisory Committee to measure the effectiveness of the early intervention activities.

Key Words: audiology, children with special health care needs, newborn hearing screening, early intervention, family-to-family, medical home, hearing loss

PROGRAM NARRATIVE

PURPOSE OF THE PROJECT

The Nebraska Newborn Hearing Screening Program (NNHSP) was developed to implement the goals of the Infant Hearing Act of 2000 (<u>Nebraska Revised Statute</u> §71-4735):

- "To provide early detection of hearing loss in newborns at the birthing facility, or as soon after birth as possible for those children born outside of a birthing facility
- To enable these children and their families and other caregivers to obtain needed multidisciplinary evaluation, treatment, and intervention services at the earliest opportunity
- To prevent or mitigate the developmental delays and academic failures associated with late detection of hearing loss
- To provide the state with the information necessary to effectively plan, establish, and evaluate a comprehensive system for the identification of newborns and infants who have a hearing loss."

Through the development of a tracking and follow-up system, the support for hospitals in development of their newborn hearing screening programs, the dissemination of educational materials and opportunities, and the engagement of stakeholders in creating the program, Nebraska reached two benchmarks in 2003: 100% of birthing facilities were providing newborn hearing screening and 97% of newborns had their hearing screened during birth admission.

Building on these accomplishments to ensure that infants identified with a hearing loss and their families are receiving appropriate and timely high quality services, the NNHSP has developed eight specific system goals. To reach these goals, the NNHSP will increase the awareness of parents and professionals about the importance of newborn hearing screening and early intervention, will provide linguistically and culturally appropriate educational materials for parents, will develop and access professional development opportunities for professionals who provide services, will strengthen existing and develop new collaborative approaches to linking the providers of services, and will nurture and expand the opportunities to establish medical homes, family-to-family supports and continuous early childhood hearing screening.

NEEDS ASSESSMENT

Any description of systems in Nebraska must first begin with an overview of the state's geography and its population. Nebraska is a relatively large state with a sparse population. According to the 2000 Census, Nebraska's total population is 1,711,263. Nebraska covers 76,872 square miles. The relatively small population and a large geographic area results in an average population density of 22.3 persons per square mile, with 32 of its 93 counties designated as Frontier (6 or fewer persons per square mile) and 39% of its population living in its two metropolitan population centers, Omaha and Lincoln.

This combination of vast spaces and uneven concentration of population impacts many aspects of systems, such as availability of providers, transportation to services, economic viability of sustaining services in remote communities, and competition between urban and rural interests. For instance, of Nebraska's 93 counties, all or part of 32 are considered Primary Care Health Professional Shortage Areas and all or part of 73 are Medically Under Served Areas and Medically Under Served Populations.

Nebraska has also seen important shifts and trends in its populations, particularly a growing proportion of racial/ethnic minorities. From 1990 to 2000, the minority population rose by 83.5% and now constitutes 12.7% of the total population. The proportion of children under 5 that are racial/ethnic minorities is 21.8%. For this age group, 10.8% are Hispanic, compared to 5.5% of the overall population. In 2003, the number of live births in Nebraska increased for the

ninth straight year, to 26,067. From 1994 to 2003, live births among Hispanic women increased by 150% while live births among non-Hispanic women increased by 3%.

Estimates of uninsured Nebraska children under age 19 range from 7 to 8%, less than the national estimates. These estimates predate changes in Nebraska's Medicaid eligibility criteria implemented late in 2002 that have been projected to result in 15,000 Nebraska children losing health care coverage. A profile of the early childhood population shows that 14% of Nebraska's children age 5 and under live in poverty, compared to 9.7% for the overall Nebraska population.

Specifically related to this grant application is the availability and distribution of audiologists and primary health care providers. Audiologists and medical specialists tend to be disproportionately clustered in the metropolitan areas resulting in decreased availability for diagnostic evaluations and treatment for hearing loss. Over two-thirds of audiologists, pediatric health care providers (physicians, physician assistants, nurse practitioners) and otolaryngologists practice within the Omaha and Lincoln metropolitan areas.

In 2003, Nebraska had 67 birthing facilities, 13% of which accounted for almost 70% of the births. There are 51 hospitals with less than 500 births per year. Sub-grants from the Nebraska Health Care Cash Fund provided \$2000 toward the purchase of equipment to 38 small hospitals in 2002 and 2003. The growth of newborn hearing screening has progressed from only 16% of the birthing facilities conducting screenings in 2000 to 100% in 2003.

In 2003, Nebraska was able to screen 97% of the newborns prior to hospital discharge. The overall "refer" (did not pass) rate was 3.6%. Of those that "referred" or were discharged prior to screening, 82% received an outpatient hearing screening. The outpatient hearing screenings occurred at an average of 24 days of age and over 87% of them occurred prior to six weeks of age.

The Infant Hearing Act requires confirmatory testing facilities to report the number of infants who return for a follow-up hearing test and, of those, the numbers with and without a hearing loss. Audiologists reported identifying 58 infants born in 2002 with hearing loss and the NNHSP received individual reports on 44 of those infants. In 2003, 66 infants were reported as having been diagnosed with a hearing loss, 56 of which the NNHSP received individual reports.

Of those infants for whom audiological diagnostic evaluation reports were received in 2003, the average age at confirmation of hearing loss was 81 days and over 2/3 were identified at less than 3 months of age. The rate of identified hearing loss in newborns and infants in Nebraska was 2.3 per thousand in 2002 and 2.5 per thousand in 2003, within the national norms.

The NNHSP has not been systematically collecting child-specific information about referrals to early intervention services or the services actually provided, including the number of infants with hearing loss who have a medical home. Tracking the outcomes for infants identified with a hearing loss has not been consistent beyond the audiological diagnostic evaluation.

All birthing facilities are now conducting newborn hearing screenings and the rate of follow-up outpatient re-screenings is very good. However, Nebraska's geography and population distribution impacts the availability and accessibility of specialty medical and audiologic services for those infants who need diagnostic evaluations. These are factors to be addressed in developing the system linkages needed for effective referral, tracking, and reporting processes for early intervention services.

DATA REQUIREMENTS

The Infant Hearing Act of 2000 requires birthing facilities to report annual aggregate data to the NNHSP, including the number of live births, the number of newborns screened prior to discharge, the number who passed, and the number who "referred." Based on the reporting

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protocol established by the NNHSP Advisory Committee, hospitals are to report child-specific information weekly about each newborn who "referred" or was discharged prior to receiving a hearing screening, including transfers to a neonatal intensive care unit. These reporting requirements are the foundation for the manual reporting and tracking system that has been in existence for four years. The development and implementation of an electronic data reporting system that is integrated with the state's new electronic birth certificate registry will provide the opportunity to minimize errors due to duplicate entries because of name changes and newborns who expire prior to screening. Likewise, data about the race and ethnicity of the newborns and infants is not currently being collected but will be more readily available with hearing screening reporting integrated into the birth certificate registry.

Audiologists, though not required by statute to report child-specific diagnostic evaluation results, have increasingly done so, reaching 85% reporting in 2003 compared with the required annual aggregate report. Aggregate data has been received annually from the Early Development Network (EDN) Child Count but only recently has the child-specific information been reported, including information about age of referral and verification as well as information about family-to-family support services and medical homes. To meet the data reporting requirements for MCHB/UNHSI, confidentiality issues will need to be clarified between NNHSP, audiologists, and EDN. Protocols will need to be developed that will facilitate the routine and timely reporting of child-specific information. In addition, strategies will need to be developed with EDN to ensure the reporting of early intervention data for those infants for whom hearing loss is not the only or primary verification.

Approaches of the NNHSP to meet the annual reporting requirements on the five MCHB Performance Measures can be found in Appendix G.

IDENTIFICATION OF TARGET POPULATION

The primary focus of the Nebraska Newborn Hearing Screening system is the more than 26,000 newborns born annually in the birthing facilities in the state and those born out-of-hospital. The purpose of NNHSP is to identify those newborns with permanent childhood hearing loss, estimated at between 25 to 76 annually in Nebraska, and to ensure that appropriate and timely early intervention services are provided.

With 100% of the birthing facilities conducting newborn hearing screening, the initial activity to identify those with a permanent loss is doing quite well. Many birthing facilities in the more rural sections of the state provide the outpatient follow-up screening for those newborns who "referred" during the birth admission screening.

The secondary focus of the NNHSP is the professionals who provide the screenings, audiologic and amplification evaluations, medical evaluations, and early intervention services. By developing capacity-building strategies to better identify and serve those newborns and infants with hearing loss, especially in the more rural areas of the state where vast distances and poverty combine to limit access, more optimal developmental outcomes will be achieved. Through partnerships with Boys Town National Research Hospital and the National Center for Hearing Assessment and Management, among others, professional development activities will be developed and promoted, using distance learning as often as possible, to 1) increase the number of audiologists with expertise serving infants, 2) to better engage family practice physicians in early hearing detection and intervention, establishment of medical homes, access to amplification and referrals to Early Intervention, and 3) develop the capacity of staff in a variety of health and early care and education settings to conduct continuous early childhood hearing screening.

GOALS AND OBJECTIVES 2005-2008

Notes: "Quarters" column indicates the time in which the activity will occur, beginning with Quarter 1 on April 1, 2005. List of Abbreviations in Appendix A

<u>System Goal 1</u> - The hearing of all newborns born in Nebraska will be screened during the birth admission or, if born out-of hospital, by one month of age.	Healthy People 2010 (28-11) Increase the proportion of newborns who are screened for hearing loss by age 1 month, have audiologic evaluation by age 3 months, and are enrolled in appropriate intervention services by age 6 months.	
Program Objective 1.1 – <i>Birthing facilities</i>	Measurement – Number of "refers,"	
will submit hearing screening status reports for 100% of newborns who "refer" during	timeliness of reporting	
birth admission		
Activities	Quarters	Person(s) Responsible
Development of integrated electronic data	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Prgm Mgr; QS Tech; Adv
system	Q7 Q8 Q9 Q10 Q11 Q12	Cmte
Beta-testing of integrated electronic data system; Development of final version	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Prgm Mgr; QS Tech; Selected Hosp Staff
Integrated electronic data system available to all birthing facilities	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Prgm Mgr; QS Tech, Hosp Staff
Training and orientation of hospital staff	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Prgm Mgr; Adm Assist; QS Tech, Hosp Staff
Individual hearing screening status reports submitted electronically during birth certificate registry process	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Adm Assist; Hosp Staff
2004 Excel spreadsheet data exported to integrated system	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Prgm Mgr; Adm Assist
Program Objective 1.2 – <i>Birthing facilities</i>	Measurement –]	Number of discharges prior
will submit hearing screening status reports		ons for discharge, timeliness
for 100% of newborns who do not receive a	of reporting	
hearing screening during birth admission		
Activities	Quarters	Person(s) Responsible
Development of integrated electronic data system	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Prgm Mgr; QS Tech; Adv Cmte
Beta-testing of integrated electronic data system; Development of final version	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Prgm Mgr; QS Tech; Selected Hosp Staff
Integrated electronic data system available to all birthing facilities	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Prgm Mgr; QS Tech, Hosp Staff
Training and orientation of hospital staff	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Prgm Mgr; Adm Assist; QS Tech, Hosp Staff
Individual hearing screening status reports submitted electronically during birth certificate registry process	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Adm Assist; Hosp Staff
2004 Excel spreadsheet data exported to integrated system	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Prgm Mgr; Adm Assist

Program Objective 1.3 – <i>NICU hospitals</i>	Massuramont N	Number of passag and
	Measurement - Number of passes and "refers," timeliness of reporting	
will submit hearing screening status reports	Telefs, timeline	ss of reporting
for 100% of newborns transferred to the		
NICU prior to receiving a hearing screening. Activities	Quarters	Parson(s) Posponsible
	_	Person(s) Responsible Prgm Mgr; QS Tech; Adv
Development of integrated electronic data system	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Cmte
Beta-testing of integrated electronic data system; Development of final version	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Prgm Mgr; QS Tech; Selected Hosp Staff
Integrated electronic data system available to all birthing facilities	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Prgm Mgr; QS Tech, Hosp Staff
Training and orientation of hospital staff	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Prgm Mgr; Adm Assist; QS Tech, Hosp Staff
Individual hearing screening status reports submitted electronically during birth certificate registry process	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Adm Assist; Hosp Staff
2004 Excel spreadsheet data exported to integrated system	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Prgm Mgr; Adm Assist
Program Objective 1.4 – Hearing screening	Measurement - N	Number of passes and
facilities will submit hearing screening	"refers," percenta	ge of percentages at
status reports for 100% of newborns/infants	hospitals, audiology clinics, medical clinics,	
who received an outpatient hearing	timeliness of outp	atient screening, timeliness
screening.	of reporting, num	ber and type of referrals
Activities	Quarters	Person(s) Responsible
Revision of outpatient hearing screening	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Prgm Mgr; Adm Assist;
reporting process and procedures.	Q7 Q8 Q9 Q10 Q11 Q12	Adv. Cmte
Orientation of confirmatory testing facility staff, primary health care providers	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Prgm Mgr; Adm Assist; Hosp Staff; Auds, PHCP
Hearing screening status reports submitted within 1 week of outpatient screening to primary health care provider and NNHSP	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Prgm Mgr; Adm Assist; Hosp Staff; Auds, PHCP
Results will be entered by NNHSP into data system	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Adm Assist
Program Objective 1.5 – <i>Birthing facilities</i>	Measurement –	Number born, parents
will submit the annual aggregate report	educated, screene	d, pass, refer, and
required by statute.		follow-up; refer rate by
	type of screening	
Activities	Quarters	Person(s) Responsible
Weekly activity report generated at hospital for verification of screenings completed.	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Adm Assist; Hosp Staff
Monthly hearing screening reports generated at hospital for local quality assurance	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Adm Assist; Hosp Staff
Annual hearing screening reports generated for annual legislative report, other reports and surveys, analysis	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Prgm Mgr; Adm Assist; Hosp Staff; Aud, Adv Cmte

System Goal 2 – All newborns who "refer" on the initial outpatient hearing re- screening will complete an audiologic diagnostic evaluation prior to 3 months of age.	Healthy People 2010 (28-11) Increase the proportion of newborns who are screened for hearing loss by age 1 month, have audiologic evaluation by age 3 months, and are enrolled in appropriate intervention services by age 6 months. Healthy People 2010 (28-15) Increase the number of persons who are referred by their primary care physician for hearing evaluation and treatment.	
Program Objective 2.1 – <i>Confirmatory</i>	Measurement – Comparison of number of	
testing facilities will obtain parental		with annual aggregate report
permission to release audiologic reports to		with annual aggregate report
NNHSP.		
Activities	Quarters	Person(s) Responsible
Subcommittee will develop template for	Q1 Q2 Q3 Q4 Q5 Q6	Prgm Mgr; Adv Cmte,
release of information to NNHSP.	Q7 Q8 Q9 Q10 Q11 Q12	NSLHA
Template will be disseminated to audiologists with orientation provided.	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Prgm Mgr; NSLHA, Auds
Audiologists will gain parental permission to	01 02 03 04 05 06	Auds
submit audiologic reports to NNHSP.	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	
Program Objective 2.2 – Confirmatory testing facilities will submit individual audiologic diagnostic and amplification reports, including information about referrals.	number with and degree of hearing	Number of infants evaluated, without hearing loss; type, loss; number evaluated for mber referred to each early ider
Activities	Quarters	Person(s) Responsible
Audiologic and amplification reports will be provided to referring primary health care provider and NNHSP.	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Auds, PHCP, Admin Assist
Results will be entered by NNHSP into data system	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Adm Assist
Notification for follow-up reported mailed/e- faxed to referral.	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Adm Assist
Program Objective 2.3 – <i>Confirmatory testing facilities will submit the annual aggregate report required by statute.</i>	Measurement – Number evaluated, number with hearing loss, number without hearing loss	
Activities	Quarters	Person(s) Responsible
Notification of report requirements disseminated to audiologists	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Prgm Mgr, Adm Assist, Auds
Audiologists submit annual aggregate report to NNHSP	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Auds, Adm Assist
Reconciliation of aggregate and individual reports	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Adm Assist

System Coal 2 All infants with a	Healthy Deeple	0010 (28 11) Increase the
System Goal 3 – All infants with a		2010 (28-11) Increase the
confirmed hearing loss will begin receiving		borns who are screened for
early intervention services prior to six	hearing loss by age 1 month, have audiologic	
months of age	evaluation by age 3 months, and are enrolled	
	in appropriate intervention services by age 6	
	months.	
	Healthy People 2010 (28-13) Increase access	
	by persons who have hearing impairments to	
	hearing rehabilitation services and adaptive	
	devices, including hearing aids, cochlear	
	implants, or tactile or other assistive or	
	augmentative devices.	
Program Objective 3.1 – Health care		Number of referrals made to
providers and audiologists will refer all	EDN, MHCP	
newborns and infants with suspected or		
confirmed hearing loss to the Early		
Development Network and/or Medically		
Handicapped Children's Program for		
<i>eligibility determination.</i> Activities	Quantors	Person(s) Responsible
Referral protocols developed with EDN,	Quarters	Prgm Mgr; EDN; MHCP,
	Q1 Q2 Q3 Q4 Q5 Q6	
MHCP, and NNHSP subcommittee	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Adv Cmte, EHDI Chapter
MHCP, and NNHSP subcommittee	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Adv Cmte, EHDI Chapter Champion
MHCP, and NNHSP subcommittee Referral protocols, including promotional		Adv Cmte, EHDI Chapter Champion Prgm Mgr; EDN and
MHCP, and NNHSP subcommittee Referral protocols, including promotional information, disseminated to primary health	Q1 Q2 Q3 Q4 Q5 Q6	Adv Cmte, EHDI Chapter Champion Prgm Mgr; EDN and Planning Region Teams,
MHCP, and NNHSP subcommittee Referral protocols, including promotional		Adv Cmte, EHDI Chapter Champion Prgm Mgr; EDN and Planning Region Teams, MHCP, NSLHA, EHDI
MHCP, and NNHSP subcommittee Referral protocols, including promotional information, disseminated to primary health care providers and audiologists	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Adv Cmte, EHDI Chapter Champion Prgm Mgr; EDN and Planning Region Teams, MHCP, NSLHA, EHDI Chapter Champion
MHCP, and NNHSP subcommittee Referral protocols, including promotional information, disseminated to primary health care providers and audiologists Referral reports submitted to NNHSP	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Adv Cmte, EHDI Chapter Champion Prgm Mgr; EDN and Planning Region Teams, MHCP, NSLHA, EHDI Chapter Champion Adm Assist, Auds, PHCP
 MHCP, and NNHSP subcommittee Referral protocols, including promotional information, disseminated to primary health care providers and audiologists Referral reports submitted to NNHSP Program Objective 3.2 – Audiologists will 	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Measurement –	Adv Cmte, EHDI Chapter Champion Prgm Mgr; EDN and Planning Region Teams, MHCP, NSLHA, EHDI Chapter Champion Adm Assist, Auds, PHCP Number of referrals made,
 MHCP, and NNHSP subcommittee Referral protocols, including promotional information, disseminated to primary health care providers and audiologists Referral reports submitted to NNHSP Program Objective 3.2 – Audiologists will refer, as appropriate, all infants with 	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Measurement - The solution of the second	Adv Cmte, EHDI Chapter Champion Prgm Mgr; EDN and Planning Region Teams, MHCP, NSLHA, EHDI Chapter Champion Adm Assist, Auds, PHCP
 MHCP, and NNHSP subcommittee Referral protocols, including promotional information, disseminated to primary health care providers and audiologists Referral reports submitted to NNHSP Program Objective 3.2 – Audiologists will refer, as appropriate, all infants with confirmed hearing loss for assistive listening 	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Measurement –	Adv Cmte, EHDI Chapter Champion Prgm Mgr; EDN and Planning Region Teams, MHCP, NSLHA, EHDI Chapter Champion Adm Assist, Auds, PHCP Number of referrals made,
 MHCP, and NNHSP subcommittee Referral protocols, including promotional information, disseminated to primary health care providers and audiologists Referral reports submitted to NNHSP Program Objective 3.2 – Audiologists will refer, as appropriate, all infants with confirmed hearing loss for assistive listening device evaluations, medical evaluations, and 	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Measurement - The solution of the second	Adv Cmte, EHDI Chapter Champion Prgm Mgr; EDN and Planning Region Teams, MHCP, NSLHA, EHDI Chapter Champion Adm Assist, Auds, PHCP Number of referrals made,
 MHCP, and NNHSP subcommittee Referral protocols, including promotional information, disseminated to primary health care providers and audiologists Referral reports submitted to NNHSP Program Objective 3.2 – Audiologists will refer, as appropriate, all infants with confirmed hearing loss for assistive listening device evaluations, medical evaluations, and genetic evaluations. 	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Measurement – $\frac{1}{2}$ results of referrals diagnoses, etc)	Adv Cmte, EHDI Chapter Champion Prgm Mgr; EDN and Planning Region Teams, MHCP, NSLHA, EHDI Chapter Champion Adm Assist, Auds, PHCP Number of referrals made, s (hearing aid fittings,
MHCP, and NNHSP subcommittee Referral protocols, including promotional information, disseminated to primary health care providers and audiologists Referral reports submitted to NNHSP Program Objective 3.2 – <i>Audiologists will</i> <i>refer, as appropriate, all infants with</i> <i>confirmed hearing loss for assistive listening</i> <i>device evaluations, medical evaluations, and</i> <i>genetic evaluations.</i> Activities	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Measurement - The solution of the second	Adv Cmte, EHDI Chapter Champion Prgm Mgr; EDN and Planning Region Teams, MHCP, NSLHA, EHDI Chapter Champion Adm Assist, Auds, PHCP Number of referrals made, s (hearing aid fittings, Person(s) Responsible
 MHCP, and NNHSP subcommittee Referral protocols, including promotional information, disseminated to primary health care providers and audiologists Referral reports submitted to NNHSP Program Objective 3.2 – Audiologists will refer, as appropriate, all infants with confirmed hearing loss for assistive listening device evaluations, medical evaluations, and genetic evaluations. Activities Referral and reporting protocols developed by 	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Measurement – results of referrals diagnoses, etc) Quarters	Adv Cmte, EHDI Chapter Champion Prgm Mgr; EDN and Planning Region Teams, MHCP, NSLHA, EHDI Chapter Champion Adm Assist, Auds, PHCP Number of referrals made, s (hearing aid fittings, Person(s) Responsible Prgm Mgr; Adv Cmte,
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Program Objective 3.3 – The Early Development Network, Medically Handicapped Children's Program, RPDHH, and other early intervention providers will submit individual and annual aggregate reports of early intervention services.	Measurement – Number of referrals to each program, number eligible, number and types of services provided	
Activities	Quarters	Person(s) Responsible
Reporting protocols developed with NNHSP subcommittee, EDN, MHCP, Regional Programs and other early intervention providers	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Prgm Mgr; EDN; MHCP, Reg Prgm, Adv Cmte, OHS, BTNRH
Reporting protocols disseminated to early intervention providers and orientation completed	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Prgm Mgr; EDN and Planning Region Teams, MHCP, OHS, BTNRH
Individual reports of services provided are submitted to NNHSP	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Adm Assist; EDN, MHCP, Reg Prgm, OHS, BTNRH
Annual aggregate reports of referrals, eligibility verifications, and services provided are submitted	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Adm Assist; EDN, MHCP, Reg Prgm, OHS, BTNRH
	-	
System Goal 4 – All infants with a	Healthy People 2	2010 (28-12) Reduce otitis
confirmed hearing loss will have a medical	media in children	
home.	number of person	2010 (28-15) Increase the us who are referred by their sician for hearing evaluation
Program Objective 4.1 – Birthing facilities will identify and report to NNHSP the primary health care provider of each newborn who refers on the initial hearing screening or were discharged/transferred prior to the hearing screening.	Measurement – . on reports	Accuracy of listing of PHCP
Activities	Quarters	Person(s) Responsible
NNHSP orients hospital staff about rationale for accurate PHCP identification	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Prgm Mgr; Hosp Staff
Primary health care provider listed on hearing screening status report of electronic data reporting system	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Adm Assist; Hosp Staff
Verification requested through first NNHSP notification of hearing screening results to PHCP	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Adm Assist; PHCP

Program Objective 4.2 – <i>Primary health</i> <i>care providers will refer, as appropriate,</i> <i>infants with suspected or confirmed hearing</i> <i>loss for otologic, genetic, and audiologic</i> <i>evaluations and for early intervention</i> <i>services.</i>	Measurement – Number of medical homes established, number of referrals, documentation of emerging/best practices	
Activities	Quarters	Person(s) Responsible
Create medical home task force to examine approaches to establishing a medical home for children with hearing loss, including access to amplification.	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Prgm Mgr, BTNRH, AAP EHDI Chapter Champion, NeFPA, NePAA, MHCP, EDN, Adv Cmte
Develop a medical home promotion for primary health care providers (print, CD/DVD, conference workshops, grand rounds, website)	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Prgm Mgr, BTNRH, AAP EHDI Chapter Champion, NeFPA, NePAA, MHCP, EDN, Adv Cmte
Implement medical home promotional activities (print, CD/DVD, conference workshops, grand rounds, website)	Q1 Q2 <u>Q3 Q4 Q5 Q6</u> Q7 Q8 Q9 Q10 Q11 Q12	Prgm Mgr, BTNRH, AAP EHDI Chapter Champion, NeFPA, NePAA, MHCP, EDN, Adv Cmte
Develop local demonstration projects linking the medical home approach with EDN service coordination.	Q1 Q2 Q3 Q4 <u>Q5 Q6</u> Q7 Q8 Q9 Q10 Q11 Q12	Prgm Mgr, BTNRH, AAP EHDI Chapter Champion, NeFPA, NePAA, MHCP, EDN and Planning Region Team, Adv Cmte
Develop a mentoring component to extend the demonstration project success and provide support and expertise to additional local medical home teams	Q1 Q <u>2 Q3 Q4 Q5 Q6</u> Q7 Q8 <u>Q9 Q10 Q11 Q12</u>	Prgm Mgr, BTNRH, AAP EHDI Chapter Champion, NeFPA, NePAA, MHCP, EDN and Planning Region Team, Adv Cmte
Program Objective 4.3 – <i>Primary health</i>	Measurement –]	Number of children with risk
care providers will submit individual status reports of children with confirmed hearing loss.	factors being monitored; number of child with risk factors identified with hearing loss	
Activities	Quarters	Person(s) Responsible
Develop on-going, interactive reporting process based on AAP Patient Checklist for Pediatric Medical Home Providers	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Prgrm Mgr, Adv Cmte, EHDI Chap Champion, NeFPA, NePAA
Periodic individual status reports will be exchanged between PHCP and NNHSP	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Adm Assist, Prgm Mgr, PHCP

System Goal 5 – Families of young children	Hoalthy Poopla	010 (28 11) Increase the
with a confirmed hearing loss will have	Healthy People 2010 (28-11) Increase the proportion of newborns who are screened for	
8	hearing loss by age 1 month, have audiologic	
access to a family-to-family support		
system.	evaluation by age 3 months, and are enrolled	
	in appropriate intervention services by age 6	
	months.	
Program Objective 5.1 – Families of young	Measurement – Number of resources	
children with a confirmed hearing loss will	available, number of print guides distributed,	
receive a resource guide of support services.	number of web hits	
Activities	Quarters	Person(s) Responsible
Conduct inventory of local, state, regional, and	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Prgm Mgr; PTI-NE
national support services		
Develop a print and web-based resource guide	Q1 Q2 Q3 Q4 Q5 Q6	Admin Assist
of available resources	Q7 Q8 Q9 Q10 Q11 Q12	
Disseminate to families of children with a	Q1 Q2 Q3 Q4 Q5 Q6	Admin Assist
confirmed hearing loss	Q7 Q8 Q9 Q10 Q11 Q12	
Disseminate to primary health care providers,	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Admin Assist
audiologists, EDN service coordinators		
Program Objective 5.2 – Organizational		Number of initial sessions
support will be provided for families to		ew support groups
organize local support groups.	established	
Activities	Quarters	Person(s) Responsible
Conduct needs assessment of current family-	01 02 03 04 05 06	BEGINNINGS, PTI-NE,
to-family system and resources in NE	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Prgm Mgr
	01 02 03 04 05 06	
to-family system and resources in NE		Prgm Mgr
to-family system and resources in NE Identify approaches to strengthening family-	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q1 Q2 Q3 Q4 Q5 Q6	Prgm Mgr BEGINNINGS, PTI-NE,
to-family system and resources in NE Identify approaches to strengthening family- to-family network in NE Identify groups of parents interested in	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Prgm Mgr BEGINNINGS, PTI-NE, Prgm Mgr
to-family system and resources in NE Identify approaches to strengthening family- to-family network in NE	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q1 Q2 Q3 Q4 Q5 Q6	Prgm Mgr BEGINNINGS, PTI-NE, Prgm Mgr PTI-NE, BTNRH, OHS,
to-family system and resources in NE Identify approaches to strengthening family- to-family network in NE Identify groups of parents interested in organizing a local support group	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q1 Q2 Q3 Q4 Q5 Q6	Prgm Mgr BEGINNINGS, PTI-NE, Prgm Mgr PTI-NE, BTNRH, OHS, Reg Prgm, Prgm Mgr
to-family system and resources in NE Identify approaches to strengthening family- to-family network in NE Identify groups of parents interested in organizing a local support group Organize one or two initial meetings of parents	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Prgm Mgr BEGINNINGS, PTI-NE, Prgm Mgr PTI-NE, BTNRH, OHS, Reg Prgm, Prgm Mgr PTI-NE, Prgm Mgr
to-family system and resources in NE Identify approaches to strengthening family- to-family network in NE Identify groups of parents interested in organizing a local support group Organize one or two initial meetings of parents Workshops to address emotions and to	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Measurement –	Prgm Mgr BEGINNINGS, PTI-NE, Prgm Mgr PTI-NE, BTNRH, OHS, Reg Prgm, Prgm Mgr PTI-NE, Prgm Mgr PTI-NE Number of families engaged
to-family system and resources in NE Identify approaches to strengthening family- to-family network in NE Identify groups of parents interested in organizing a local support group Organize one or two initial meetings of parents Workshops to address emotions and to organize local groups provided	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Measurement –	Prgm Mgr BEGINNINGS, PTI-NE, Prgm Mgr PTI-NE, BTNRH, OHS, Reg Prgm, Prgm Mgr PTI-NE, Prgm Mgr PTI-NE
to-family system and resources in NE Identify approaches to strengthening family- to-family network in NE Identify groups of parents interested in organizing a local support group Organize one or two initial meetings of parents Workshops to address emotions and to organize local groups provided Program Objective 5.3 – <i>Early intervention</i>	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Measurement –	Prgm Mgr BEGINNINGS, PTI-NE, Prgm Mgr PTI-NE, BTNRH, OHS, Reg Prgm, Prgm Mgr PTI-NE, Prgm Mgr PTI-NE Number of families engaged
to-family system and resources in NE Identify approaches to strengthening family- to-family network in NE Identify groups of parents interested in organizing a local support group Organize one or two initial meetings of parents Workshops to address emotions and to organize local groups provided Program Objective 5.3 – <i>Early intervention</i> <i>providers will submit annual aggregate and</i>	$\begin{array}{c} Q1 \overline{Q2 \ Q3} Q4 \ Q5 \ Q6} \\ Q7 \ Q8 \ Q9 \ Q10 \ Q11 \ Q12 \\ \hline Q1 \ Q2 \ Q3 \ Q4 \ Q5 \ Q6} \\ Q7 \ Q8 \ Q9 \ Q10 \ Q11 \ Q12 \\ \hline Q1 \ Q2 \ Q3 \ Q4 \ Q5 \ Q6} \\ \hline Q7 \ Q8 \ Q9 \ Q10 \ Q11 \ Q12 \\ \hline Q1 \ Q2 \ Q3 \ Q4 \ Q5 \ Q6} \\ \hline Q7 \ Q8 \ Q9 \ Q10 \ Q11 \ Q12 \\ \hline Q1 \ Q2 \ Q3 \ Q4 \ Q5 \ Q6} \\ \hline Q7 \ Q8 \ Q9 \ Q10 \ Q11 \ Q12 \\ \hline Q1 \ Q2 \ Q3 \ Q4 \ Q5 \ Q6} \\ \hline Q7 \ Q8 \ Q9 \ Q10 \ Q11 \ Q12 \\ \hline Measurement - \hline m \ family-to-family \\ \hline \end{array}$	Prgm Mgr BEGINNINGS, PTI-NE, Prgm Mgr PTI-NE, BTNRH, OHS, Reg Prgm, Prgm Mgr PTI-NE, Prgm Mgr PTI-NE Number of families engaged
to-family system and resources in NE Identify approaches to strengthening family- to-family network in NE Identify groups of parents interested in organizing a local support group Organize one or two initial meetings of parents Workshops to address emotions and to organize local groups provided Program Objective 5.3 – <i>Early intervention</i> <i>providers will submit annual aggregate and</i> <i>individual reports of families participating in</i>	$\begin{array}{c} Q1 \overline{Q2 \ Q3} Q4 \ Q5 \ Q6} \\ Q7 \ Q8 \ Q9 \ Q10 \ Q11 \ Q12 \\ \hline Q1 \ Q2 \ Q3 \ Q4 \ Q5 \ Q6} \\ Q7 \ Q8 \ Q9 \ Q10 \ Q11 \ Q12 \\ \hline Q1 \ Q2 \ Q3 \ Q4 \ Q5 \ Q6} \\ \hline Q7 \ Q8 \ Q9 \ Q10 \ Q11 \ Q12 \\ \hline Q1 \ Q2 \ Q3 \ Q4 \ Q5 \ Q6} \\ \hline Q7 \ Q8 \ Q9 \ Q10 \ Q11 \ Q12 \\ \hline Q1 \ Q2 \ Q3 \ Q4 \ Q5 \ Q6} \\ \hline Q7 \ Q8 \ Q9 \ Q10 \ Q11 \ Q12 \\ \hline Q1 \ Q2 \ Q3 \ Q4 \ Q5 \ Q6} \\ \hline Q7 \ Q8 \ Q9 \ Q10 \ Q11 \ Q12 \\ \hline Measurement - \hline m \ family-to-family \\ \hline \end{array}$	Prgm Mgr BEGINNINGS, PTI-NE, Prgm Mgr PTI-NE, BTNRH, OHS, Reg Prgm, Prgm Mgr PTI-NE, Prgm Mgr PTI-NE Number of families engaged
to-family system and resources in NE Identify approaches to strengthening family- to-family network in NE Identify groups of parents interested in organizing a local support group Organize one or two initial meetings of parents Workshops to address emotions and to organize local groups provided Program Objective 5.3 – <i>Early intervention</i> <i>providers will submit annual aggregate and</i> <i>individual reports of families participating in</i> <i>family-to-family support activities.</i>	$\begin{array}{c} Q1 \ \overline{Q2} \ \overline{Q3} \ Q4 \ Q5 \ Q6 \\ Q7 \ Q8 \ Q9 \ Q10 \ Q11 \ Q12 \\ \hline Q1 \ Q2 \ \overline{Q3} \ Q4 \ Q5 \ Q6 \\ \hline Q7 \ Q8 \ Q9 \ Q10 \ Q11 \ Q12 \\ \hline Q1 \ Q2 \ \overline{Q3} \ Q4 \ Q5 \ Q6 \\ \hline Q7 \ Q8 \ Q9 \ Q10 \ Q11 \ Q12 \\ \hline Q1 \ Q2 \ Q3 \ Q4 \ Q5 \ Q6 \\ \hline Q7 \ Q8 \ Q9 \ Q10 \ Q11 \ Q12 \\ \hline Q1 \ Q2 \ Q3 \ Q4 \ Q5 \ Q6 \\ \hline Q7 \ Q8 \ Q9 \ Q10 \ Q11 \ Q12 \\ \hline Q1 \ Q2 \ Q3 \ Q4 \ Q5 \ Q6 \\ \hline Q7 \ Q8 \ Q9 \ Q10 \ Q11 \ Q12 \\ \hline Q1 \ Q2 \ Q3 \ Q4 \ Q5 \ Q6 \\ \hline Q7 \ Q8 \ Q9 \ Q10 \ Q11 \ Q12 \\ \hline Q1 \ Q2 \ Q3 \ Q4 \ Q5 \ Q6 \\ \hline Q7 \ Q8 \ Q9 \ Q10 \ Q11 \ Q12 \\ \hline \mathbf{Measurement} - \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	Prgm Mgr BEGINNINGS, PTI-NE, Prgm Mgr PTI-NE, BTNRH, OHS, Reg Prgm, Prgm Mgr PTI-NE, Prgm Mgr PTI-NE Number of families engaged ly support groups, type of
to-family system and resources in NE Identify approaches to strengthening family- to-family network in NE Identify groups of parents interested in organizing a local support group Organize one or two initial meetings of parents Workshops to address emotions and to organize local groups provided Program Objective 5.3 – <i>Early intervention</i> <i>providers will submit annual aggregate and</i> <i>individual reports of families participating in</i> <i>family-to-family support activities.</i> Activities	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Measurement – in family-to-fami groups Q1 Q2 Q3 Q4 Q5 Q6	Prgm Mgr BEGINNINGS, PTI-NE, Prgm Mgr PTI-NE, BTNRH, OHS, Reg Prgm, Prgm Mgr PTI-NE, Prgm Mgr PTI-NE Number of families engaged ly support groups, type of Person(s) Responsible
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Annual aggregate reports of family-to-family support services are submitted	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Admin Asst	b, n,
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System Goal 6 – The hearing of young	Hoalthy Doonlo	010 (28 12) Paduas atitis
<u>system Goar o</u> – The hearing of young children in Nebraska will be screened at	Healthy People 2010 – (28-12) Reduce otitis media in children and adolescents.	
various times prior to age 3.	(28-14) Increase proportion of persons who	
various times prior to age 5.	have had a hearing examination on schedule.	
Program Objective 6.1 – <i>Primary health</i>	Measurement – Number of infants with risk	
care providers will refer young children at	factors, number of infants at-risk who are	
risk for late-onset hearing loss for	monitored, number of infants with confirmed	
audiologic monitoring.	hearing loss	
Activities	Quarters	Person(s) Responsible
Develop on-going, interactive reporting		Prgrm Mgr, Adv Cmte,
process based on AAP/NCHAM Patient	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	EHDI Chap Champion,
Checklist for Pediatric Medical Home	Q7 Q8 Q9 Q10 Q11 Q12	NeFPA, NePAA
Providers		
Dissemination and orientation to risk factors	01 02 03 04 05 06	Prgrm Mgr, Adv Cmte,
for later-onset hearing loss and to need for	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	EHDI Chap Champion,
periodic monitoring of hearing		NeFPA, NePAA, NSLHA
Periodic individual status reports will be	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Adm Assist, Prgm Mgr,
exchanged between PHCP and NNHSP	Q7 Q8 Q9 Q10 Q11 Q12	РНСР
Program Objective 6.2 – <i>Early Head Start</i>	Measurement – Number of EHS infants-	
programs will conduct OAE hearing	toddlers screened, number referred, number	
screenings of enrolled children aged birth to	with hearing loss, number of NNHSP "lost-to-	
three years.	follow-up" screened	
	1	
Activities	Quarters	Person(s) Responsible
Activities Early Head Start (EHS) will conduct	O1 O2 O3 O4 O5 O6	
	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11	Person(s) Responsible
Early Head Start (EHS) will conduct semiannual OAE screening of infants-toddlers	O1 O2 O3 O4 O5 O6	Person(s) Responsible EHS Prgms
Early Head Start (EHS) will conduct semiannual OAE screening of infants-toddlers Two additional EHS/Migrant Head Start	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Person(s) Responsible
Early Head Start (EHS) will conduct semiannual OAE screening of infants-toddlers Two additional EHS/Migrant Head Start programs will be trained to conduct OAE	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11	Person(s) Responsible EHS Prgms
Early Head Start (EHS) will conduct semiannual OAE screening of infants-toddlers Two additional EHS/Migrant Head Start programs will be trained to conduct OAE screenings by Early Childhood Hearing	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q1 Q2 Q3 Q4 Q5 Q6	Person(s) Responsible EHS Prgms
Early Head Start (EHS) will conduct semiannual OAE screening of infants-toddlers Two additional EHS/Migrant Head Start programs will be trained to conduct OAE screenings by Early Childhood Hearing Outreach (ECHO) team (funded by NCHAM)	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Person(s) Responsible EHS Prgms ECHO team, EHS Prgms
Early Head Start (EHS) will conduct semiannual OAE screening of infants-toddlers Two additional EHS/Migrant Head Start programs will be trained to conduct OAE screenings by Early Childhood Hearing Outreach (ECHO) team (funded by NCHAM) Extend ECHO training to additional	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q1 Q2 Q3 Q4 Q5 Q6	Person(s) Responsible EHS Prgms ECHO team, EHS Prgms HSSCO, ECHO team,
Early Head Start (EHS) will conduct semiannual OAE screening of infants-toddlers Two additional EHS/Migrant Head Start programs will be trained to conduct OAE screenings by Early Childhood Hearing Outreach (ECHO) team (funded by NCHAM) Extend ECHO training to additional EHS/American Indian HS programs (NNHSP	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Person(s) Responsible EHS Prgms ECHO team, EHS Prgms
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Early Head Start (EHS) will conduct semiannual OAE screening of infants-toddlers Two additional EHS/Migrant Head Start programs will be trained to conduct OAE screenings by Early Childhood Hearing Outreach (ECHO) team (funded by NCHAM) Extend ECHO training to additional EHS/American Indian HS programs (NNHSP contract with ECTC) Program Objective 6.3 – <i>Community-based</i>	$\begin{array}{c} Q1 Q2 Q3 Q4 Q5 Q6 \\ Q7 Q8 Q9 Q10 Q11 \\ Q12 \\ Q12 \\ Q1 Q2 Q3 Q4 Q5 Q6 \\ Q7 Q8 Q9 Q10 Q11 Q12 \\ Q1 Q2 Q3 Q4 Q5 Q6 \\ Q7 Q8 Q9 Q10 Q11 Q12 \\ \hline \mathbf{Measurement} - \mathbf{I} \\ number of partner of children screer \\ \end{array}$	Person(s) Responsible EHS Prgms ECHO team, EHS Prgms HSSCO, ECHO team, ECTC Number of clinics trained,
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Adapt ECHO training package to needs of	Q1 Q2 Q3 Q4 Q5 Q6	NCHAM, ECHO team,
community health clinic	Q7 Q8 Q9 Q10 Q11 Q12	ECTC
Conduct ECHO training with community	Q1 Q2 Q3 Q4 Q5 Q6	NCHAM, ECHO team,
health clinics (NNHSP contract with ECTC)	Q7 Q8 Q9 Q10 Q11 Q12	ECTC
Program Objectives 6.4 – <i>Hearing</i>	Measurement – MOU, number of hearing	
screening and monitoring status reports will	screenings reported, number of NNHSP "los	
be submitted to NNHSP.	to-follow-up" scr	eened
Activities	Quarters	Person(s) Responsible
Determine the feasibility of EHS/HS reporting	Q1 Q2 Q3 Q4 Q5 Q6	HSSCO, Prgm Mgr
individual hearing screening results to NNHSP	Q7 Q8 Q9 Q10 Q11 Q12	
If feasible, proceed with developing a MOU		HSSCO, Prgm Mgr,
between EHS/HS and NNHSP to facilitate	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	NeHSA
reporting process	Q7 Q8 Q7 Q10 Q11 Q12	
Adapt existing reporting processes to meet	Q1 Q2 Q3 Q4 Q5 Q6	HSSCO, Prgm Mgr,
needs of EHS/HS and NNHSP	Q7 Q8 Q9 Q10 Q11 Q12	NeHSA
Disseminate and orient EHS/HS to reporting	01 02 03 04 05 06	HSSCO, Prgm Mgr,
process	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	NeHSA, Admin Assist
<u>System Goal 7</u> – Hearing health	Healthy People 2	2010 – n/a
professionals will increase their capacity to	JP	
provide appropriate services to young		
children.		
Program Objective 7.1 – Training needs of	Measurement –	Number of surveys returned,
	2	
hearing health professionals will be		2
hearing health professionals will be assessed.	content of survey	2
5 I V		s
assessed. Activities	content of survey Quarters	s Person(s) Responsible
assessed. Activities Hospital staff will be surveyed annually as part	content of survey	s
assessed. Activities Hospital staff will be surveyed annually as part of required annual report	Quarters Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	s Person(s) Responsible Prgm Mgr, Admin Assist
assessed. Activities Hospital staff will be surveyed annually as part of required annual report The NCHAM/BTNRH research project	Quarters Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	s Person(s) Responsible Prgm Mgr, Admin Assist BTNRH, NCHAM, Prgm
assessed. Activities Hospital staff will be surveyed annually as part of required annual report The NCHAM/BTNRH research project regarding nurses' knowledge of EHDI will be	Quarters	s Person(s) Responsible Prgm Mgr, Admin Assist
assessed. Activities Hospital staff will be surveyed annually as part of required annual report The NCHAM/BTNRH research project regarding nurses' knowledge of EHDI will be piloted in Nebraska	Quarters Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	s Person(s) Responsible Prgm Mgr, Admin Assist BTNRH, NCHAM, Prgm Mgr, Hosp Staff
assessed. Activities Hospital staff will be surveyed annually as part of required annual report The NCHAM/BTNRH research project regarding nurses' knowledge of EHDI will be piloted in Nebraska A random sample of 200 physicians will be	Quarters Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	S Person(s) Responsible Prgm Mgr, Admin Assist BTNRH, NCHAM, Prgm Mgr, Hosp Staff BTNRH, NCHAM, Prgm
assessed. Activities Hospital staff will be surveyed annually as part of required annual report The NCHAM/BTNRH research project regarding nurses' knowledge of EHDI will be piloted in Nebraska A random sample of 200 physicians will be surveyed through the NCHAM/BTNRH	Quarters Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	s Person(s) Responsible Prgm Mgr, Admin Assist BTNRH, NCHAM, Prgm Mgr, Hosp Staff
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assessed.ActivitiesHospital staff will be surveyed annually as partof required annual reportThe NCHAM/BTNRH research projectregarding nurses' knowledge of EHDI will bepiloted in NebraskaA random sample of 200 physicians will besurveyed through the NCHAM/BTNRHresearch project regarding physicians'knowledge of EHDINNHSP will be represented on audiologyeducation committee of Nebraska SpeechLanguage Hearing AssociationProgram Objective 7.2 – Professionaldevelopment resources will be inventoriedannually.	Quarters Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Measurement — I Quarters	Person(s) Responsible Prgm Mgr, Admin Assist BTNRH, NCHAM, Prgm Mgr, Hosp Staff BTNRH, NCHAM, Prgm Mgr, physicians Prgm Mgr Listing of training resources Person(s) Responsible
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Program Objective 7.3 – <i>Professional</i>	Measurement – Listing of educational	
development opportunities will be promoted to the hearing health professionals.	opportunities, level of participation	
Activities	Quarters	Person(s) Responsible
Four audiologists from the rural part of the state will be sponsored to enroll in NCHAM's <u>Auditory Evaluation for Infants Referred from</u> <u>Newborn Hearing Screening</u> 3-part workshop	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Prgm Mgr, NCHAM
Audio conferences and interactive video conferences will be developed for hearing screening staff in birthing facilities.	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Prgm Mgr, BTNRH
Workshops will be presented at conferences	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	NHA, NeFPA, NePAA, NeHSA
Implement medical home promotional activities (print, CD/DVD, conference workshops, grand rounds, website)	Q1 Q2 <u>Q3 Q4 Q5 Q6</u> Q7 Q8 Q9 Q10 Q11 Q12	Prgm Mgr, BTNRH, AAP EHDI Chapter Champion, NeFPA, NePAA, MHCP, EDN, Adv Cmte
Develop local demonstration projects linking the medical home approach with EDN service coordination.	Q1 Q2 Q3 Q4 <u>Q5 Q6</u> Q7 Q8 Q9 Q10 Q11 Q12	Prgm Mgr, BTNRH, AAP EHDI Chapter Champion, NeFPA, NePAA, MHCP, EDN and Planning Region Team, Adv Cmte
Develop a mentoring component to extend the demonstration project success and provide support and expertise to additional local medical home teams	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Prgm Mgr, BTNRH, AAP EHDI Chapter Champion, NeFPA, NePAA, MHCP, EDN and Planning Region Team, Adv Cmte
Staff from Early Head Start/Migrant Head Start, community health clinics, RPDHH, and/or Educational Service Units will be trained using ECHO curriculum.	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	ECHO team, ECTC, NCHAM
Links to on-line educational activities, such as BTNRH's pediatric amplification evaluation training, will be included on NNHSP website	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Prgm Mgr
NNHSP newsletter will be developed and disseminated semi-annually.	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 12	Prgm Mgr
Program Objective 7.4 – <i>The effectiveness of the professional development activities will be monitored.</i>	Measurement –	Analysis of evaluations
Activities	Quarters	Person(s) Responsible
Evaluations will be included as part of each professional development activity	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Admin Assist
Evaluations will be compiled and analyzed	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Admin Assist, Prgm Mgr, Adv Cmte

System Goal 8 – NNHSP will provide an effective structure for the newborn hearing screening and intervention system in Nebraska.	Healthy People 2	2010 – n/a
	Maagumamant	Advisory Committee
Program Objective 8.1 – Internal capacity	Measurement – Advisory Committee	
of NNHSP will be expanded and	minutes, staffing pattern, data system, number	
strengthened.	and type of collaborations, website content,	
A - 4 ¹ - ¹ 4 ¹	overall effectiveness of each component	
Activities	Quarters	Person(s) Responsible
Advisory Committee will be revised to include	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Prgm Mgr, Adv Cmte
better representation of stakeholders	Q7 Q8 Q9 Q10 Q11 Q12	
Working subcommittees will be established by		Prgm Mgr, Adv Cmte,
Advisory Committee: Protocols, Early	Q1 Q2 Q3 Q4 Q5 Q6	stakeholders
Intervention, Professional Development,	Q7 Q8 Q9 Q10 Q11 Q12	
Linguistic/Cultural Concerns, Planning and		
Evaluation		D M HUGG
Administrative Assistant I position will be	Q1 Q2 Q3 Q4 Q5 Q6	Prgm Mgr, HHSS
added to maintain tracking and follow-up	Q7 Q8 Q9 Q10 Q11 Q12	
aspects of the NNHSP		D
Integrated electronic data reporting system	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Prgm Mgr, QS
will be developed and implemented	Q7 Q8 Q9 Q10 Q11 Q12	Technologies, Hosp Staff
Additional funding opportunities will be	Q1 Q2 Q3 Q4 Q5 Q6	Prgm Mgr
pursued, including support for the ECHO	Q7 Q8 Q9 Q10 Q11 Q12	
training to additional programs		
Formal and informal collaborations will be		Prgm Mgr, organizations
developed to build the capacity of the hearing	Q1 Q2 Q3 Q4 Q5 Q6	and agencies related to early
screening and intervention system	Q7 Q8 Q9 Q10 Q11 Q12	childhood disabilities,
		specifically hearing loss
NNHSP information will be added to Office of	Q1 Q2 Q3 Q4 Q5 Q6	Prgm Mgr, Admin Assist,
Family Health website	Q7 Q8 Q9 Q10 Q11 Q12	HHSS
Program Objective 8.2 – <i>Parent education</i>		Materials in six primary
materials will be developed and/or provided		er of materials sent, survey
for birthing facilities	results and analys	
Activities	Quarters	Person(s) Responsible
Parent educational brochures and letters will	Q1 Q2 Q3 Q4 Q5 Q6	Prgm Mgr, translator
be translated into Vietnamese, Arabic,	Q7 Q8 Q9 Q10 Q11 Q12	
Russian, Sudanese, and Chinese		
Print and video educational materials will be	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	Admin Assist
provided to all birthing facilities		
Parent survey will be conducted semi-annually	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 12	Prgm Mgr, Admin Assist,
of random sample of parents	Q7 Q8 Q9 Q10 Q11 12	Adv Cmte

PROJECT METHODOLOGY

Healthy People 2010 – Public Health Infrastructure 7-11bb. Vision and hearing

The Nebraska Newborn Hearing Screening Program (NNHSP) will build on the accomplishments and resources of the newborn hearing screening system that has been developed in Nebraska and that has resulted in 100% of birthing facilities conducting newborn hearing screenings on 97% of newborns with a follow-up rate of 82%. The infrastructure of the NNHSP will be strengthened to create a more seamless, integrated early hearing detection and intervention (EHDI) system for young children with hearing loss, to support additional follow-up activities and to provide the foundation for ongoing evaluation and continuous improvement. The current NNHSP system will be fine-tuned to improve the efficiency and effectiveness of the newborn hearing screening, follow-up, and reporting processes. The system will be extended to better link audiologic evaluations, medical evaluations and treatment, early intervention services, and family-to-family support services. Evaluation processes will incorporate revised and expanded reporting processes and professional development activities will be more intentional, based on training needs assessments and incorporating available resources. The NNHSP logic model on page 39 depicts the relationship of the resources available, the activities that will be accomplished, the quantification of those activities, and the anticipated short-, intermediate-, and long-term outcomes.

Newborn Hearing Screening (Goal 1)

<u>Reporting.</u> The integrated electronic data system that will be integrated with the State's birth certificate registry will greatly increase the reporting efficiency and accuracy about newborns who "refer" on the hearing screening during birth admission, those discharged or expired prior to screening, and those transferred to a neonatal intensive care unit. The Advisory Committee,

Inputs	Activities –	► Outputs —		→ Outcomes
Infant Hearing Act Advisory Committee	٨	Services: Numbers of – -Newborns born -Newborns who received a hearing	Short term (0-6 Months)	Long Term (> 36 months)
Funds (UNHS, Title V, HCCF)		screening test during birth admission -Newborns who passed a hearing screening test during birth admission	\\	Development
NCHAM, AAP NeAAP Chapter Champion		Newborns who did not pass a hearing screening test -Newborns recommended for	Hearing Screening for all newborns (UNHS)	Linguistic Cognitive Social
Boys Town National Research Hospital Birthing Facilities (67)		monitoring, intervention, and follow- up care -Newborns/infants receiving a follow-up hearing test -Newborns/infants w/o hearing loss -Newborns/infants with a hearing loss (type/degree of hearing loss)		
Confirmatory Testing Facilities (114 audiologists)	Reporting C O		<i>Type, Degree of Hearing</i> <i>Loss Determined</i> Re-screening Diagnostic Evaluation Referrals	Intermediate (6-36 months)
Medical Homes/PHCP Early Development Network (EI) Reporting, Tracking Data System (QS Technologies)	Tracking L and L Follow-up B O	-Newborns/infants evaluated for and fitted with amplification -Newborns/infants referred to and enrolled in EDN(EI) -Newborns/infants with medical home -Families in family-to-family support		<i>Early Intervention</i> Part C (EDN) CSHCN (MHCP) Amplification
Professional Associations (NeAAP, NeFPA, NePAA, NSLHA, NeHSA) Health Programs (Newborn Screening/Genetics, CSHCN/MHCP, Community Health Centers) Family Support programs	Education and Technical Assistance N Evaluation	programs Quality measures -Refer rate -Time to initial re-screen -Rate of discharge without screen -Lost to follow-up -Age at diagnosis/early intervention, Parent satisfaction measures National EHDI surveys Annual, legislative reports	Medical Evaluation by Primary Health Care Provider Education Referrals Diagnosis Treatment	Medical Home Care Competencies Education Evaluations IFSP Risk Factors
 (PTI, Answers4Families, Family Voices) Educational programs (Regional Programs (4), Omaha Hearing School, BTNRH) EHS/HSSCO Financing of hearing aids, cochlear implants 		Products: Number of -Workshops -Newsletters and articles -Technical assistance visits (phone, on-site) -Press releases -Advisory Committee and subcommittee meetings and products -MOUs, MOAs -Collaborative initiatives and projects	<i>Early Intervention (EDN)</i> <i>begun</i> Eligibility determined Enrollment	Family Support PTI-Nebraska Answers4Families Family Voices Hands and Voices Regional Programs Omaha Hearing School

Nebraska Newborn Hearing Screening Program – Logic Model

including representatives from the birthing facilities, will be involved in designing and betatesting the integrated system.

<u>Tracking and Follow-up</u>. The current protocols developed by the Advisory Committee for the NNHSP identify the newborn's Primary Health Care Provider (PHCP) as the contact for tracking and follow-up activities. This tracking and follow-up protocol has been successful with 82% of the newborns who referred having a follow-up outpatient re-screening at an average age of 24 days. The tracking and follow-up protocols will be reviewed and revised, as necessary, by the Advisory Committee to accommodate the new electronic data system which will automatically generate correspondence.

<u>Education and Technical Assistance</u>. Birthing facilities have been and will continue to be surveyed annually to determine areas for training and technical assistance. The top-ranked issues will be used to determine the focus of professional development activities, such as teleconferences, workshops, links to on-line resources, and newsletter articles. In addition, specific individualized requests will continue to be encouraged, with phone and/or on-site training and/or technical assistance provided.

The NNHSP provides parent education material to the birthing facilities free of charge. Currently available in English and Spanish, the brochure will be translated into Arabic, Vietnamese, Chinese, Russian, and Sudanese. Prior to translation, the health literacy level of the brochure will be assessed and revisions will be made. The educational videotape, <u>Give Your</u> <u>Baby a Sound Beginning</u>, will be purchased and provided free of charge to the birthing facilities. <u>Evaluation</u>. The Infant Hearing Act requires that each birthing facility have a system for compliance review and to report specific aggregate data to the NNHSP annually. This aggregate data is useful not only to the NNHSP to annually evaluate the percentage of newborns not

screened and the refer rates for those that were screened, but also is used by the birthing facilities as a basic quality assurance measure. The legislatively-required data, which will be cumulatively generated by the integrated reporting system, will continue to assist both the birthing facilities and the NNHSP in monitoring the quality of the programs and the system.

Audiologic Diagnostic Evaluation (Goal 2)

Reporting. The Infant Hearing Act requires that confirmatory testing facilities annually report to the NNHSP the number of newborns and infants who return for a follow-up hearing test, who do not have a hearing loss and the number that are shown to have a hearing loss based upon the follow-up hearing test. The audiologic diagnostic evaluation protocol developed and approved by the Advisory Committee established that, in the interest of reducing costs, the first step in a follow-up hearing test was to be an outpatient re-screening using OAE and/or ABR screening methods within the first six weeks of age rather than proceeding immediately to a comprehensive audiological evaluation. Being a state with the two major population centers being located closely together in the southeastern part of the state with vast expanses of sparcely populated land with few, if any, audiologists within a reasonable driving distance in the middle and western sections, local community health systems have opted to have the outpatient re-screening completed in conjunction with the first well-baby check. This has been a reasonable accommodation for the state and has resulted in a high level of follow-up activities being initiated.

<u>Tracking and Follow-up</u>. Audiologists are not required by statute to report the results of audiological evaluations for individual infants to the NNHSP. Audiologists have increasingly been submitting the individual reports to both the referring PHCP and directly to the NNHSP, resulting in an increase from 39% submission in 2001 to 85% in 2003. This facilitates

determining the type, degree, configuration, and ear-specificity for many more infants while also greatly increasing the number of infants being tracked. During 2005, the reporting protocols for audiological diagnostic evaluations will be reviewed by the Advisory Committee, especially concentrating on ensuring that both the referring PHCP and the NNHSP receive the information needed by each.

Education and Technical Assistance. The NNHSP develops and disseminates a resource directory that has a listing of audiologists who have requested to be included. Information about each provider includes information about the services provided for infants such as re-screening, hearing aid evaluation and fitting, and hearing aid loaners. The information is self-report only; there has been no objective determination of qualifications for providers of infant audiology services. The draft version of the Joint Committee on Infant Hearing (JCIH) Recommendations on Quality Infant Audiology Services (Q*IAS) delineates the knowledge, skills, experience and instrumentation needed to provide infant audiologic services. The JCIH recommendations will be introduced to the professional development sub-committee of the Advisory Committee to be considered in developing an assessment of the educational needs of audiologists, and later to be considered as a template for inclusion into the resource directory. Other audiologic professional development activities of the NNHSP program will be: 1) Sponsoring four audiologists from the rural part of the state to enroll in NCHAM's Auditory Evaluation for Infants Referred from Newborn Hearing Screening workshop. By 2004, nine audiologists from the state had already participated in the extended workshop. 2) BTNRH is developing an on-line class for infant hearing aid evaluation and fitting. This class will be promoted by the NNHSP to audiologists within the state. 3) The NNHSP program manager will serve on the audiology education committee for the Nebraska Speech Language Hearing Association.

Evaluation. The request for follow-up hearing test information, required by statute, is mailed to all licensed audiologists in Nebraska. Since the first step of the follow-up hearing test is an outpatient re-screening and some hospitals are conducting this re-screening, the reporting protocol will be modified to clearly request the number and results of the follow-up re-screening and to include all sites, including birthing hospitals, that conduct follow-up outpatient re-screening. Additional information, including a description of the hearing loss (type, degree, ear-specificity), age of infant at diagnosis, follow-up plans, and referrals made for medical evaluations and to the Early Development Network (EDN) and other support systems, will be requested to better evaluate the effectiveness of this component of Nebraska's EHDI system.

Early Development Network (Goal 3)

<u>Reporting</u>. Tracking of the referrals for early intervention services and follow-up provision of those services has not been consistent during the first four years of the NNHSP. The early intervention and protocol sub-committees of the Advisory Committee will develop a functional, effective referral and reporting protocol, including the need for agreements to address confidentiality issues.

<u>Tracking and Follow-up</u>. The EDN has begun and will continue to submit child-specific reports from the HHS "Connect" database for those verified as hearing impaired. The reports include age at referral and types of services, such as family support and medical home information. The early intervention sub-committee of the Advisory Committee will determine the feasibility of identifying and reporting the services for those children who have hearing loss categorized as a secondary disability. A periodic match of infants in the follow-up section of the NNHSP system and the referral section of the "Connect" system will be conducted to identify instances when referrals may not have been reported or completed.

<u>Education and Technical Assistance</u>. Outreach to audiologists and PHCPs by the EDN's Planning Region Teams (Local Interagency Coordinating Councils) will educate the primary referral sources about the importance of early intervention and the mechanism to refer for services. Staff in the Regional Programs for the Deaf and Hard of Hearing (Regional Programs) and the Educational Service Units will be offered the opportunity to learn to conduct OAE screenings by the ECHO training team.

<u>Evaluation</u>. Evaluation of the effectiveness and timeliness of referrals to the EDN will be studied, along with identification of individual instances when the system did not function as planned. The annual aggregate Child Count report (numbers of children verified with hearing loss being served on December 1) will continue to be submitted as well as child-specific information. The design of an integrated referral and reporting system should result in less children being lost to follow-up and more infants beginning to receive services prior to six months of age.

Medical Home (Goal 4)

<u>Reporting</u>. When an infant has been identified as having a hearing loss, the AAP recommends that the child can best be served within the context of a medical home. The "Connect" system currently tracks which children with a hearing loss have a medical home and this child-specific data has recently begun to be reported to NNHSP. The early intervention sub-committee will determine how to formalize the reporting process to provide consistent and accurate data for annual reporting purposes.

<u>Tracking and Follow-up</u>. Pediatricians participating in focus groups, funded by a mini-grant from the AAP, indicated that the <u>Patient Checklist for Pediatric Medical Home Providers</u> seemed to be a workable format to track the referrals and results for children with a hearing loss. This

checklist, or a modified version, will be incorporated as a coversheet and "at-a-glance" status report to be generated by the new integrated electronic data system and provided to the medical home provider.

Education and Technical Assistance. Opportunities to educate PHCPs about newborn hearing screening will also include information about the medical home concept. A focused and systematic approach will be used to create these opportunities, including the development of "just-in-time" educational materials. For example, as part of the ECHO team's training of Early Head Start staff to conduct OAE hearing screenings, Dr. Donald Uzendoski, the EHDI Chapter Champion, will discuss the importance of establishing a medical home and approaches to encourage that process. The medical home core competencies will be included in educational activities during outreach efforts to family practice physicians, physicians assistants, nurse practitioners and nurses.

<u>Evaluation</u>. The numbers of children who are deaf or hearing impaired with a medical home will be tracked through the "Connect" reports and reported annually. Trends will be monitored over time to determine the effectiveness of outreach efforts to educate the medical community about the medical home approach.

Family-to-Family Support System (Goal 5)

<u>Reporting, Tracking and Follow-up</u>. Until recently, the NNHSP has not been gathering information about the engagement of the families of infants with hearing loss in family-to-family support activities. This child-specific data is available through the HHS "Connect" database and, as part of the EDN system, is now being reported to NNHSP. Discussions have begun with other early intervention providers in the state to develop protocols for reporting of both aggregate and child-specific information. The early intervention subcommittee of the Advisory Committee will include the reporting, tracking, and follow-up protocols for family-to-family support programs. New subcommittee members include the Supporting Parent Coordinator for PTI-Nebraska and an audiologist from a rural area. Parents will be recruited through the Regional Programs.

Educational and Technical Assistance. The NNHSP will provide support to parents in establishing family-to-family support networks. In June, 2004, the Office of Programs for Children with Sensory Impairments sponsored a workshop for parents on establishing a Hands and Voices chapter in Nebraska. The Office of Programs for Children with Sensory Impairments and NNHSP will partner in providing further opportunities for the parents to develop this chapter. PTI-Nebraska will also offer workshops on establishing support groups to interested parents statewide. NNHSP will also explore creating a section about newborn hearing screening, hearing loss, and support services on the State's on-line information system, Answers4Families. <u>Evaluation</u>. The NNHSP will work with the early intervention provider systems to determine how best to structure the reporting of family-to-family support services. Particular attention will be paid to developing a system to have unduplicated numbers, although that may occur with the less formal support systems.

Continuous Early Childhood Hearing Screening (Goal 6)

<u>Reporting, Tracking and Follow-up</u>. Initial discussions have occurred with several Early Head Start directors and with the Head Start State Collaboration Office to begin consideration of reporting of the child-specific screening results to NNHSP as part of a longer-term tracking process, to identify those who may have been "lost to follow-up," and to identify those with a later-onset or progressive hearing loss. A memorandum of agreement will be developed to formalize the reporting and tracking process.

Educational and Technical Assistance. To begin the process of implementing continuous early childhood hearing screening in Nebraska, five Early Head Start (EHS) grantees will be trained by Summer, 2005, to conduct OAE hearing screenings. The ECHO project, developed and funded by NCHAM, will be delivered by the ECHO team in Nebraska. OAE screening equipment is provided as part of this project. The ECHO team consists of four audiologists, an educator of the deaf, a training coordinator, and the EHDI Chapter Champion. The NNHSP will contract with the Early Childhood Training Center to conduct one additional training session for staff at community health centers and possibly additional EHS staff. The NNHSP will research funding opportunities to extend this training for additional staff at community health centers, Regional Programs, and Educational Service Units. Options for funding of the screening equipment for these programs is being explored.

<u>Evaluation</u>. NCHAM will be collecting and analyzing anonymous, individual data reports for EHS children screened in the ECHO project up to age 36 months and the results of those screenings. With child-specific information available following appropriate parental release of information, identifying those who had been considered "lost to follow-up" is of primary interest to the NNHSP.

Professional Development (Goal 7)

<u>Educational and Technical Assistance</u>. NNHSP professional development activities in Nebraska will be guided by the professional development subcommittee of the Advisory Committee. To the greatest extent possible, existing resources will be accessed. The specific approaches to be implemented have previously been described in the <u>Education and Technical Assistance</u> sections of Goals 1-6.

<u>Evaluation</u>. Each professional development activity will include an evaluation of the effectiveness of the training, the applicability of the content, and suggestions for continued development.

Infrastructure (Goal 8)

<u>Electronic Data System</u>. During the first six months of 2005, the NNHSP and QS Technologies, Inc., will be designing an electronic newborn hearing screening data reporting system to be integrated with the birth certificate registry of Nebraska's Electronic Vital Statistics System. This will replace the current manual reporting and tracking system that is heavily dependent upon manual processes. The hearing screening module will be developed with input from selected hospital staff. Following beta-testing and refinement, hospital staff will be oriented and trained. It is anticipated that the implementation will begin in June, 2004, and be completed prior to the end of the year.

Advisory Committee. The Nebraska Newborn Hearing Screening Program has been developed based on the requirements identified in the Infant Hearing Act of 2000 and the protocols recommended by the Advisory Committee. The Advisory Committee is currently being revitalized to guide the direction of the NNHSP to create a more integrated and effective EHDI system in the state (see Appendix A for the current membership list). Specific tasks to be accomplished by the Advisory Committee in the next year are 1) to increase the representation of stakeholders, 2) to review and, as necessary, revise the existing protocols to incorporate the electronic data system, 3) to develop new reporting, tracking and follow-up protocols to effectively link the NNHSP and the early intervention systems, 4) to increase the program's responsiveness to the expanding cultural and linguistic communities in the state, 5) to support the development of an effective professional development system, and 6) to guide the long-term

planning and evaluation of the EHDI system in the state. A sub-committee structure will be developed to create functional work groups in each of the areas and to engage a more diverse group of members in the development of the program.

<u>Staffing</u>. A new program manager was hired for the NNHSP effective in February, 2004. The manager's background in audiology, early childhood, family development and management-administration provides the foundation for continuing to develop and grow the NNHSP through collaborative systems. An administrative assistant position will be added to perform the current and additional tracking and follow-up functions.

COLLABORATION AND COORDINATION

The development of more expansive and integrated systems will be based on existing working relationships and the willingness to explore new partnerships to better accomplish additional tasks. In 2004, new collaborative projects have been started with Boys Town National Research Hospital, the Nebraska Chapter of the American Academy of Pediatrics, and Early Head Start grantees through NCHAM's ECHO project (see Appendix D for the Memorandum of Understanding). Initial steps have been taken for new collaborations with Parent Training and Information – Nebraska, the Early Childhood Training Center, the Head Start State Collaboration Office, the Omaha Hearing School, Delta Zeta sorority, and BEGINNINGS. Establishing linkages with the Nebraska Academy of Family Physicians is in process. Relationships and projects are being revitalized with the Early Development Network, the Office of Programs for Children with Sensory Impairments, and the Medically Handicapped Children's Program. And the highly effective day-to-day working relationship with the Newborn Screening and Genetics program continues to contribute enormously to the NNHSP.

Following is a brief description of each organization with existing or emerging collaborations and a listing of the specific activities of the collaborative efforts. These organizations have submitted letters outlining specific areas of collaboration (see Appendix F).

Title V/Maternal and Child Health Block Grant - The Office of Family Health has primary responsibility for the administration of the Title V/MCH Block Grant. The Office Administrator is Nebraska's Title V/MCH Director and guides the needs assessment and planning processes. The Newborn Hearing Screening Program Manager is a member of Nebraska's Title V/MCH 5year comprehensive needs assessment and part of other Title V-related initiatives and activities within the Office. The Title V/MCH Block Grant supports a wide range of services for the MCH and CSHCN populations in Nebraska, including Newborn Hearing Screening.

Early Development Network (Part C) - The Nebraska Department of Education (NDE) and the Nebraska Department of Health and Human Services (DHHS) are the co-leads for the Early Development Network (EDN), Nebraska's Early Intervention Program, Part C of IDEA. The co-leads work with 29 Early Childhood Regional Planning Teams, the Local Interagency Coordinating Councils. EDN's collaborative support for the NNHSP includes:

- Member of the NNHSP Advisory Committee since its inception in 2000
- Providing annual aggregate data of children with verified hearing loss, based on Child Count
- Providing child-specific follow-up data
- Developing referral and reporting protocols
- Supporting outreach by the Planning Region Teams
- Promoting NNHSP in EDN's 10th Anniversary campaign
- Meeting on a quarterly basis

Office of Programs for Children with Sensory Impairments - The four Regional Programs for the Deaf and Hard of Hearing in Nebraska are administered through the Office of Programs for Children with Sensory Impairments in NDE to assist local school districts in providing full opportunity for students who are deaf or hearing impaired to participate and communicate and for families to receive support services. The Office of Programs for Children with Sensory Impairments collaborative support for the NNHSP includes:

- Member of the NNHSP Advisory Committee
- Will recruit parents for the Advisory Committee and subcommittees
- Potential funding partner to train RPDHH staff to conduct OAE hearing screenings
- Partner in supporting development a Hands and Voices chapter
- Meeting on a quarterly basis to explore data sharing

Medically Handicapped Children's Program – The Medically Handicapped Children's Program (MHCP), Nebraska's Children with Special Health Care Needs program, provides family-focused services coordination/case management, specialty medical team evaluations for children in local areas, access to specialty physicians, and payment of treatment services. Areas of collaboration between MHCP and NNHSP are:

- Dr. Jeanne Garvin, medical director for MHCP, is a member of the Advisory Committee
- Reporting protocol to be developed to track referrals, eligibility verifications, and services

Nebraska Chapter, American Academy of Pediatrics – Dr. Donald Uzendoski is the EHDI Chapter Champion for the Nebraska AAP chapter. The close working relationship between Dr. Uzendoski and the NNHSP is evidenced by these collaborative efforts:

- Member of the NNHSP Advisory Committee since its inception in 2000
- Secured an AAP mini-grant to 1) conduct focus groups with pediatricians and conference calls with hearing screening coordinators for input about the electronic data system and 2) sponsor EHDI display at Nebraska Family Physicians Preventative Medicine Conference
- Member of the Nebraska Early Childhood Hearing Outreach (ECHO) training team, educating participants about referral processes and establishing a medical home
- Establishing linkages to educate pediatricians, family physicians and other health care professionals about EHDI and about establishing medical homes.

Boys Town National Research Hospital – Boys Town National Research Hospital (BTNRH) has contributed greatly to the development of the NNHSP. Drs. Michael Gorga and Mary Pat Moeller, Advisory Committee members at its inception in 2000, were instrumental in the development of the screening, evaluation, and amplification protocols. Collaborative efforts between BTNRH and NNHSP include:

- Membership of the NNHSP Advisory Committee since its inception in 2000
- Participation in a state-wide study of physicians' perceptions and understanding of EHDI
- Developing a "case study" project to identify issues contributing to "lost to follow-up"
- Member the Nebraska Early Childhood Hearing Outreach (ECHO) training team
- Piloting materials and approaches to study nurses' perceptions and understanding of EHDI
- Pilot projects to establish local medical home teams to engage physicians in IFSPs
- Determining feasibility of a pediatric audiology mentoring system using distance technology

Newborn Screening and Genetics Program (see Appendix D for Declaration of Organizational Structure) – The Newborn Screening and Genetics Program (NSP), located in the Department of Health and Human Services, implements the legislated metabolic screening system and administers the Nebraska Newborn Hearing Screening Program. Daily collaboration includes:

- Supervision of the NNHSP program manager
- Access to the metabolic screening database
- NSP reports on birth registration of out-of-hospital births and infant deaths
- Exchange of information about newborn transfers to neonatal intensive care units
- Access to a Health Professions Tracking Center database

Nebraska Hospital Association – The Nebraska Hospital Association (NHA) represents Nebraska's rural and urban hospitals, including data analysis, assistance with community health development, and provision of information and special services. NHA supports NNHSP by:

- Membership of the NNHSP Advisory Committee since its inception in 2000
- Advise development of electronic reporting system

- Recruit representation from birthing hospitals
- Education and promotion activities (newsletter articles, meeting reports, conference displays)

PTI– Nebraska – PTI–Nebraska is Nebraska's Parent Training Center, funded through Part D of IDEA. PTI offers training and information for all families of children with special needs. PTI is also the organizational host for the new Family Voices chapter in Nebraska. Planned collaborative activities to establish and strengthen family-to-family supports include:

- NNHSP promotion of PTI hospitals, audiologists, and health care providers
- Conducting workshops for groups of parents to provide the resources to form and maintain local family-to-family support groups, such as a Hands and Voices chapter
- Membership on the NNHSP Advisory Committee and the early intervention sub-committee

Head Start State Collaboration Office – The Nebraska Head Start State Collaboration Office (HSSCO), located in NDE, is funded by the Head Start Bureau to assist in the development of collaborative early childhood initiatives. Specific collaborative projects include:

- Promotion of ECHO project with the Nebraska Head Start Association
- Explore the development of a Memorandum of Understanding for reporting of EHS/HS hearing screening results
- Determine the feasibility of collaborations between EHS/ECHO programs and local community health centers to provide OAE follow-up screenings
- Membership on the Advisory Committee

Early Childhood Training Center – The Early Childhood Training Center (ECTC) is a statewide project that provides services designed to support the professional development of early care and education staff, including programs serving young children with disabilities and their families. Collaborations include:

- Member of the Nebraska Early Childhood Hearing Outreach (ECHO) training team
- Potential contract to replicate ECHO training beyond the NCHAM-funded project

ADMINISTRATION AND ORGANIZATION

The Nebraska Newborn Hearing Screening Program is administratively and organizationally placed under the direction of the Newborn Screening and Genetics Program, within the Office of Family Health in the Nebraska Department of Health and Human Services Regulation and Licensure. Other programs in the Office of Family Health are Perinatal, Child, and Adolescent Health; Reproductive Health; Immunization; Nebraska WIC; and Pregnancy Risk Assessment Monitoring System. The NNHSP Program Manager is directly supervised by Julie Miller, Program Manager of the Newborn Screening and Genetics Program. The Administrative Assistant will be supervised by the NNHSP Program Manager.

The chart below depicts the organizational and administrative structure. Please see Appendix E for a graphic that includes the Advisory Committee, state government linkages, collaborative partners, and service providers.



ORGANIZATION EXPERIENCE, CAPACITY, AND AVAILABLE RESOURCES

The Department of Health and Human Services appointed a multi-disciplinary NNHSP Advisory Committee to advise on the implementation of the Infant Hearing Act, to make recommendations regarding newborn hearing screening methods and protocols and to participate in developing consensus on the best practices to promote newborn hearing screening. The Advisory Committee worked closely with the NNHSP staff to develop protocols for newborn hearing screening, referral, audiologic diagnostic evaluation, and amplification assessment.

The extended network of professionals involved with newborn hearing screening, including the staff at birthing facilities, audiologists, and primary health care providers, have done well to implement the protocols. Some of the highlights of the effectiveness of the newborn hearing screening system in Nebraska since its beginning in 2000 include:

- 100% of birthing facilities in Nebraska are conducting newborn hearing screenings
- 97% of births in the state were screened during birth admission in 2003. This is a dramatic increase since 2000, when only slightly more than one third received a hearing screening.
- The refer rate was 3.6% during 2003
- The rate of outpatient re-screening increased from 63% in 2001 to 82% in 2003
- In 2003, the average age of completion of outpatient re-screening 23.8 days
- 87.4% of the outpatient hearing screenings occurred prior to six weeks of age
- Voluntary child-specific reporting by audiologists of individual infants diagnosed with hearing loss has consistently increased from 39% in 2001 to 85% in 2003.
- EDN has begun to provide child-specific data (age of referral, information about family support services and medical homes) for those infants who are verified with hearing loss.

The Advisory Committee is now poised to include a more representative and diverse membership and to guide the development of new areas of responsibility for the NNHSP.

APPENDIX A – TABLES

Advisory Committee Members

Committee Member	Group/Facility Represented		
Steve Boney, PhD	Barkley Center for Communications University of Nebraska at Lincoln		
Margaret A. Coleman	Nebraska Commission for the Deaf and Hard of Hearing		
Lora Langley, RN, BSN	Ponca Tribe of Nebraska		
Regina Watson, LPN-C	Hearing Screening Coordinator Tri County Area Hospital, Lexington		
Mary Pat Moeller, PhD	Director, Center for Deafness Boys Town National Research Hospital		
Stacie Mendlik, MS, CCC-A	Parent, Audiologist		
J. Bradley Schaefer, MD	Geneticist, Munroe-Meyer Institute, Nebraska Medical Center		
Monica Seeland	Nebraska Hospital Association		
Britt Thedinger, MD	Otologist, Ear Specialists of Omaha		
Donald M. Uzendoski, MD	Nebraska Chapter, American Academy of Pediatrics Early Hearing Detection and Intervention Chapter Champion		
Robert Wergin, MD	Nebraska Academy of Family Physicians		
Dawn Peterson	Parent Training and Information-Nebraska		
Eleanor Kirkland, MA	Head Start State Collaboration Office (NDE)		
Robert Hill	Office of Programs for Children with Sensory Impairments (NDE)		
Jeanne Garvin, MD	Medical Director Medically Handicapped Children's Program (HHS)		
Charlie Lewis	Co-Lead, Early Development Network (Part C) (HHS)		
Julie Miller	State Genetics Coordinator, Newborn Screening Program (HHS)		
Krystal Baumert	Follow-up Coordinator, Newborn Screening Program (HHS)		
Mike Rooney	Administrative Assistant, Newborn Screening Program (HHS)		
Jeff Hoffman, CCC-A	Manager, Newborn Hearing Screening Program (HHS)		

Listing of Abbreviations in Goals and Objectives

Prgm Mgr	Program Manager			
QS Tech	QS Technologies, Inc.			
Hosp Staff	Hospital Staff			
Adm Assist	Administrative Assistant			
Adv Cmte	Advisory Committee			
Auds	Audiologists			
РНСР	Primary Health Care Provider			
NSLHA	NE Speech Language Hearing Association			
EDN	Early Development Network			
МНСР	Medically Handicapped Children's Program			
EHDI Chapter Champion Dr. Donald Uzendoski				
Med Specialists	Medical Specialists			
Reg Prgm	Regional Programs for the Deaf or Hard of Hearing			
OHS	Omaha Hearing School			
BTNRH	Boys Town National Research Hospital			
NeFPA	Nebraska Family Physicians Association			
NePAA	Nebraksa Physicians Assistant Association			
PTI-NE	Parent Training and Information			
ECHO team	Early Childhood Hearing Outreach			
EHS Prgms	Early Head Start programs			
HSSCO	Head Start State Collaboration Office			
ECTC	Early Childhood Training Center			
NCHAM	National Center for Hearing Assessment and Management			
HHSS	Health and Human Services System			

APPENDIX E – PROJECT ORGANIZATIONAL CHART



APPENDIX G – PERFORMANCE MEASURES

• *The percent of completed MCHB projects publishing findings in peer-reviewed journals.* The NNHSP is actively participating in several research projects at this time. Nebraska has been selected to participate in a research project of BTNRH and NCHAM to survey physicians about their knowledge and perceptions of early hearing detection and intervention. Nebraska is also currently participating in NCHAM's Early Childhood Hearing Outreach (ECHO) research project to increase the capacity of Early Head Start programs to objectively screen the hearing of children aged birth to three.

• The percent of MCHB supported projects that are sustained in the community after the federal grant project period is completed. State general funds have not been available to the program during the current fiscal year nor are they anticipated in the near future. During the current fiscal year the NNHSP is receiving MCHB/Title V funding but that has not been ongoing. The Infant Hearing Act requires the NNHSP to actively seek all available funding.

• The degree to which MCHB supported programs ensure family participation in program and policy activities. Semi-annually a random sampling of 10% of the parents of newborns who "referred" during birth admission is surveyed about their experience with the NNHSP. Survey results have been summarized and provided to the Advisory Committee as part of a quality improvement approach. The Advisory Committee and the subcommittees that are being developed currently needs broader representation of families. The NDE Office of Programs for Children with Sensory Impairments has agreed to recruit parents of young children in the Regional Programs to participate in the Advisory Committee process. Also, the two programs will partner in supporting parents to establish a Hands and Voices chapter in Nebraska.

• The degree to which MCHB supported programs have incorporated cultural competence elements into their policies, guidelines, contracts and training. Nebraska is becoming more linguistically, culturally, and ethnically diverse. Currently parent educational materials and correspondence are in English and Spanish only. Materials will be translated into five other languages. The Advisory Committee will have a cultural competence subcommittee. As part of the focus on the medical home approach, cultural competence will be highlighted as one of the seven primary care competences.

• The degree to which grantees have assisted States in increasing the percentage of children who are screened early and continuously for special health care needs and linked to medical homes, appropriate follow-up and early intervention. Two initiatives are being developed which will provide the primary basis for reporting on this Performance Measure. The first is implementing NCHAM's ECHO team training project to train Early Head Start staff to conduct OAE hearing screenings. Initial discussions have occurred to begin consideration of reporting of the child-specific screening results to NNHSP as part of a longer-term tracking process, to identify those who may have been "lost to follow-up," and to identify those with a later-onset or progressive hearing loss. The second initiative is one in which NNHSP and BTNRH will support the development of local medical home teams to better link with the Planning Region Teams, the Part C Local Interagency Coordinating Councils.