Grant Number: H61MC00053

Project Title: MONTANA'S UNIVERSAL NEWBORN HEARING SCREENING AND INTERVENTION (UNHSI) PROGRAM: REDUCING LOSS TO FOLLOW-UP (LTFU) FOR SCREENING AND ASSESSMENT

Organization Name: Montana Department of Public Health and Human Services Mailing Address: 1400 Broadway Helena, MT 59601

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Accomplishments:

Year two of Montana's UNHSI grant was a year of continued evaluation, change and growth. Partnerships continued with birthing facilities, pediatric and Hearing Conservation Program (HCP) audiologists, Montana School for the Deaf and the Blind (MSDB), and the UNHSI stakeholders group. The Project Director and MSDB Consulting Audiologist worked closely with the Affordable Care Act (ACA) home visiting program to provide on-site hearing screening training to home visitors in all four county health departments in Montana currently contracted to provide home visiting services using the Parents as Teachers home visiting model.

A second pilot project was implemented in a more rural health department in year two of the UNHSI grant. The health department, which serves a large Native American population, is providing free hearing screenings to WIC patients and out of hospital births, and providing follow-up on referrals for babies who do not return to the hospital for repeat screenings. All screening results are reported to the UNHSI program.

Increased work with the Data Coordinator has allowed the UNHSI program to spend more time evaluating screening data from birth facilities and providing timely feedback on missing data and other data quality issues. Quarterly "Report Cards" were developed and implemented to provide detailed feedback to all birthing facility staff on data quality and rates of screening, referral, and follow-up screening. The report cards document trends so screening staff can see their improvement and compare their performance to statewide performance. Birthing facility response to the report card has been very positive.

During CY 2012 the number of pediatric audiologists increased from five to nine. Two new audiologists were hired to existing audiology practices. The new pediatric audiologist in the eastern region of the state began providing diagnostic services in 2012 after receiving ABR equipment purchased with Year 1 UNHSI funding. In early 2012 conversations began with an audiologist in the northwest region of the state about providing diagnostic services. Working closely with the Montana American Association of Pediatricians (AAP) Hearing Champion, the necessary protocol was established at the local hospital to perform sedated diagnostic ABR testing as needed. The audiologist is now designated as a "pediatric audiologist". The audiologist already had ABR equipment in his practice so UNHSI funding for equipment was not needed. Based on the analysis of current LTFU data, the decision was made to provide diagnostic equipment to an audiologist in the Helena area. An audiologist has been chosen and upon verification that the correct protocols are in place, funding will be provided to purchase ABR equipment. By the end of Year 2 of the UNHSI grant, there will be 10 practicing pediatric audiologists in Montana—doubling the number practicing at the time the UNHSI grant application was made in 2010.

Development in the Children's Health Referral Information System (CHRIS) data system and subsequent use of the system by pediatric audiologists has increased the UNHSI program's ability to identify infants diagnosed with hearing loss in a timely manner and ensure that appropriate referrals are made. An electronic referral process was developed so audiologists can complete referrals electronically at the same time they report evaluation results in CHRIS.

In September 2012, the UNHSI program began working on the Improving Hearing Screening and Intervention Systems (IHSIS) learning collaborative project through the National Initiative for Children's Healthcare Quality (NICHQ). The project required the development of a core team for Montana which includes the Project Director, Data Coordinator, the MSDB Consulting Audiologist, and a parent. The parent's key role in the IHSIS project has been valuable in increasing the UNHSI program's cognizance of challenges families in Montana face—especially in regards to a parent to parent support network. In partnership with MSDB, we have begun to develop a system in Montana to support parent involvement as mentors.

Barriers:

Loss to follow-up on infants who do not pass initial screenings is a continuing challenge in Montana. The UNHSI program continues to address this issue by increasing the number of audiologists who can perform complete diagnostic evaluations in regions with no readily available access to these services. Also, the Project Director and the MSDB Consulting Audiologist are exploring options to provide information to primary care physicians on the importance of 1-3-6 guidelines and what the follow-up protocol is. To ensure the focus of this work is useful, a survey of Montana physicians will be completed in February.

Under-reporting of screenings and evaluations performed by audiologists continues to be a challenge for the Montana UNHSI Program. Development in the CHRIS system has increased our ability to monitor diagnostic evaluations that are reported. In April 2012, a fax-back form was developed for primary care physicians. The form is faxed to the physician of record for all babies who do not pass inpatient and outpatient screenings. Along with notification of the refer results, the form also requests information on the referral made by the physician for follow-up. The Project Director monitors whether the results from reported appointment with the audiologist are reported. If no evaluation is reported, the Project Director contacts the audiologist for further information.

Goals and Objectives: (progress summarized in the table below)

GOAL:	The goal of the Montana Universal Newbo	rn Hearing Screening program is to	
	ensure that all babies born in Montana receive hearing screening by one month of age,		
	needed audiological diagnosis by three months of age, and to assure appropriate		
intervent	intervention prior to six months of age, by addressing the continuum of LTFU issues.		
Objectiv	e 1: By December 31, 2012, increase the st	atewide percent of Montana-born babies	
completin	ng newborn hearing screenings by one mont	h of age to 98% for calendar year 2012.	
2-1.1	The Project Director will communicate	Ongoing. Communication with	
	with stakeholders quarterly to review	stakeholders continues on a regular	
	LTFU statistics. With stakeholder input,	basis. Along with training developed in	
	select NICHQ strategies to pilot in	Year 1 and data system enhancements, a	
	Montana, and assess the impact of the	fax-back form and protocol was	
	strategies on local refer rates and LTFU.	developed in Year 2 for primary care	
		physicians to inform them of their	
		patients who do not pass newborn	
		screenings and collect referral	
		information to improve our ability to	
		follow-up on these babies.	
2-1.2	The Data Coordinator will continue	Ongoing. Monthly quality assurance of	
	monthly data quality assurance	screening data is ongoing and concerns	
	functions. Feedback will be provided to	are addressed with birthing facility staff	
	reporting partners regarding accuracy	to obtain correct and complete screening	
	and completeness of the data reported,	data in a timely manner. The Project	
	including those babies with birth	Director periodically checks data for	
	certificates but no screening data.	"trends" indicating the need for	
	Reinforce complete and accurate	improvement in data collection and	
	reporting of non-hospital births to	reporting. Email communication to	
	identify babies born at home who	birthing facilities, audiologists, and	
	receive screening at their local hospital	midwives addresses these issues and	
	or Hearing Conservation Program (HCP)	provide advice on improved data	
	audiologist's offices and to track	collection and reporting protocols.	

outcomes of babies transferred from the original birth facility to one of four NICU facilities in Montana.2-1.3The Project Director will ensure that birthing facilities in Montana can consistently improve the accuracy of newborn hearing screening by providing new or approved replacement screening equipment. A training protocol focusing on implementation of appropriate NICHQ follow-up strategies will be used at each of those sites. Timeline: Timeline: Ongoing activity through March 31, 2013.Complete. The Project Director reviewed screening equipment information of all births, including those that occur in more remote areas of the state where percentage of LTFU is highest by enlisting the involvement of primary care providers in those regions to educate and encourage parents, to assist with transportation to appointments, and to find resources to pay for screening and assessments. The UNHSI Program will also collaborate with the ACA Maternal, Infant and Early Childhood Home Visiting Program initiative.Ongoing. Team training was provided to staff from four county health department who are providers and collecting OAE hearing screening and assessments. The UNHSI Program will also collaborate with the ACA Maternal, Infant and Early Childhood Home Visiting Program initiative.Ongoing. Team training was provided to a staff from four county health department whore yeisting services in dona calcollecting in a more rural county health department mended in Early Head Start. The Data Complete. Another pilot project in a more rural county health department which provides home visiting services to the Project Director will analyze outcome of LTFU pilot project and explore expansion to additional sites if data analysis indicates.Complete. After evaluation of the data veses born in			
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audiologists who are performing system in place the first year, it was	2-2.1		1
		audiologists who are performing	system in place the first year, it was

	evaluations on babies who have referred	decided to move reporting for the
	on newborn hearing screens, have HI*TRACK software.	pediatric audiologists to the CHRIS database system. The reporting module
	HI' INACK software.	was developed and all pediatric
		audiologists are now using the new
		system to report screening and
		diagnostic assessment results.
2-2.2	The Data Coordinator will review	Ongoing. The Project Director and Data
	follow-up data monthly for all babies	Coordinator review monthly data and
	with "Refer" status.	follow up with hospitals and audiologists
2.2.2	The MCDD Consulting Audiele sist will	as needed.
2-2.3	The MSDB Consulting Audiologist will maintain communication with all	Ongoing. The MSDB Consulting Audiologist follows up with audiologists
	audiologists providing pediatric	on all infants who are diagnosed with a
	evaluations of infants who did not pass	hearing loss or are in the process of
	their newborn hearing screens.	being diagnosed.
2-2.4	The Project Director will provide	Ongoing, but modified. Data from the
	audiological LTFU data to stakeholders	CDC survey and other screening data is
	quarterly for review and strategic	provided at the semi-annual stakeholders
	planning.	meetings.
2-2.5	The Data Coordinator will assess LTFU	Complete. According to preliminary
	outcomes in Eastern Montana as a result	data, there was only one baby LTFU the
	of providing evaluation equipment.	eastern region of the state compared with five in 2011.
2-2.6	Provide funding for ABR diagnostic	After discussions with an audiologist in
	equipment to an audiologist in the	Kalispell, he chose to move forward with
	Northwest region of Montana to increase	setting up protocols with the hospital to
	access to diagnostic audiology services	perform pediatric evaluations, and to use
	for babies who refer on newborn hearing	equipment he already has available in his
	screenings.	practice. Therefore, diagnostic services
		are now available in that region. Helena
		was identified as another area with high LTFU and in need of pediatric audiology
		services. The primary audiology
		practice that provides services to infants
		has been contacted and began the
		process of setting up evaluation
		protocols with the local hospital. Once
		this process is complete, funding for the
		purchase of diagnostic ABR equipment
		will be provided.
•	e 3: Through March 31, 2012 expand the content for babies with confirmed congenital here.	
2-3.1	Using CHRIS provider and case	Ongoing. New functionality within the
	management data, the Project Director	CHRIS database was developed to
	will continue to analyze data on babies	provide data on whether a referral was

	with confirmed congenital hearing loss to determine whether genetic screening has been performed.	made for genetic testing by the diagnosing audiologist.
2-3.2	The Project Director will develop and implement strategies to maximize access to genetic screening for babies with confirmed congenital hearing loss and/or family history of hearing loss.	Ongoing. Funding through the Children's Special Health Services program continues to be available to assist with costs related to genetic testing for those children diagnosed with hearing loss. The Project Director has provided information on this program to all pediatric audiologists in Montana.
-	e 4: Through March 31, 2013 maintain the	
	al materials for physicians and families abo	
	n of newborn hearing screening, evaluation	
2-4.1	UNHSI Program will distribute culturally competent informational materials to include, at minimum: all birthing facilities; all audiologists; all obstetric, pediatric and family practice physicians; all local public health departments; all tribal health departments and urban centers; the Indian Health Service; and all community health centers. Stockpile materials for distribution after the completion of the final grant period. The Project Director will provide educational outreach and information about the status of Montana's UNHSI program at a minimum of two professional state conferences per year.	Ongoing. Educational materials continue to be provided to all program partners. Over 17,500 brochures and newborn hearing screening forms were distributed in 2012.
		screening program and provided information and materials at the annual Montana Chapter American Association of Pediatrics meeting.
2-4.3	MSDB will partner with the UNHSI Program to develop and distribute educational materials for parents of babies identified with hearing loss.	Ongoing. The UNHSI Program provided funding for printing MSDB brochures that provide education on developmental milestones related to hearing loss.
2-4.4	The UNHSI Program will continue to support 30-second TV spots that target the general population to increase awareness of the importance of newborn hearing screening.	Ongoing. The Newborn Hearing Screening public service announcement will be run in February and March in all six major markets in Montana.

Objective 5: Through March 31, 2013 maintain state level support to hospitals and health care		
providers providing obstetric services and to audiologist performing pediatric assessments for		
their reporting of UNHSI services to DPHHS		
Data Coordinator will work with NCHAM to continue to upgrade to version 4.0 of the HI*TRACK data system (with its concomitant access to the developer's help desk for all users) to all birthing facilities providing obstetric services and to audiologists providing pediatric evaluations in Montana.	Ongoing/modified. The UNHSI program continues to provide Hi*Track and helpdesk services to all birthing hospitals in Montana. The process to upgrade to Hi*Track web has begun with the five largest hospitals to facilitate more timely reporting of screening results. All audiologists are provided with CHRIS access to report screenings and diagnostic assessment results.	
The Project Director will provide annual feedback electronically and by letter to hospital administrators and other UNHSI system participants to publicize the "Stars Report" among each birthing facility group in five groups based on annual birth cohort. Provide feedback to audiologists performing pediatric evaluations and to other UNHSI system participants on the improvement in the number of babies receiving audiological diagnosis by three months of age. Provide feedback to healthcare providers providing obstetric services outside birthing facilities about the number of babies they deliver with completed mandatory newborn hearing screening.	Ongoing/Modified. Use of the Stars Report has been discontinued. Instead, a report will be provided to each hospital including a detailed "report card" summarizing screening rates, rate of referral, rate of completed follow up screening, and several reporting factors. Another report card will be provided to all midwives in Montana documenting their compliance rate and reporting how many of their patients received hearing screenings. These reports will be completed and distributed by March 31, 2013. Audiologists and other partners receive continued feedback on screening and assessment results reported to the UNHSI program.	
UNHSI funding to support the travel of UNHSI Project Director and the MSDB Consulting Audiologist to national EHDI conference.	To be completed. The Project Director and MSDB Consulting Audiologist will attend the 2013 EHDI conference.	
The Project Director will conduct five regional meetings to review screening and reporting requirements for hospitals, birthing centers and health care providers of obstetric services; conduct four on-site reviews of hospitals; meet with the Indian Health Service, two participating reservation hospitals and one non-participating hospital.	Modified/complete. The plan to conduct regional meetings was discontinued. Instead, nine on-site visits to birthing facilities, including one reservation hospital and another which serves a large Native American population, were completed. The Project Director also visited six midwives to discuss their responsibilities regarding reporting and providing program materials.	
	s providing obstetric services and to audiolo orting of UNHSI services to DPHHS Data Coordinator will work with NCHAM to continue to upgrade to version 4.0 of the HI*TRACK data system (with its concomitant access to the developer's help desk for all users) to all birthing facilities providing obstetric services and to audiologists providing pediatric evaluations in Montana. The Project Director will provide annual feedback electronically and by letter to hospital administrators and other UNHSI system participants to publicize the "Stars Report" among each birthing facility group in five groups based on annual birth cohort. Provide feedback to audiologists performing pediatric evaluations and to other UNHSI system participants on the improvement in the number of babies receiving audiological diagnosis by three months of age. Provide feedback to healthcare providers providing dostetric services outside birthing facilities about the number of babies they deliver with completed mandatory newborn hearing screening. UNHSI funding to support the travel of UNHSI Project Director and the MSDB Consulting Audiologist to national EHDI conference. The Project Director will conduct five regional meetings to review screening and reporting requirements for hospitals, birthing centers and health care providers of obstetric services; conduct four on-site reviews of hospitals; meet with the Indian Health Service, two participating reservation hospitals and	

Objective 6: By July 31, 2012, expand the reporting and management capacity of the UNHSI

	program through support and enhancement of the CHRIS system for use by the statewide		
		ventions and outcomes for children with	
	d newborns and children id	entified as at risk for delayed onset or	
progressive hearing loss.			
	g to provide fiscal support	Completed. Training was developed and	
	lication for user support, aintenance for MSDB	provided for MSDB outreach and administrative staff on ad hock reporting	
-		for quality assurance of MSDB data.	
	intervention services and wborns identified with	Minor development in CHRIS enabled	
hearing loss.	woollis identified with	MSDB to receive electronic referrals	
licaring loss.		directly from audiologists when they	
		enter evaluation results in CHRIS.	
Objective 7: Dy March 3	1 2013 avaluate the affectiv	veness and efficiency of Montana's	
		b determine the status of the refer rate for	
•	· •	the a NICHQ strategy has been	
0	e e	ic assessments of infants who did not pass	
		ess of implementation of intervention	
		entation through reports from the CHRIS	
software.	the originality of the impletion	entation unough reports from the CHIRIS	
	asis, the Project Director	Ongoing. The Data Coordinator reviews	
	reports of screening and	all monthly screening data submissions	
assessment data	1 0	and feedback is provided regarding	
	identify birthing facilities	missing data and errors in reporting.	
	s of babies needing	Audiologists' assessment data is	
-	babies whose referral for	monitored continuously by the Project	
-	aluations have not been	Director. Screening staff in all birthing	
-	*TRACK data entry. The	hospitals are now provided with	
-	or will contact birthing	quarterly report cards on screening rates,	
	audiologists to assist	refer rates, and missing data elements.	
	g data and technical	We have seen marked improvement in	
assistance need		screening data quality since the report	
		cards were implemented.	
2-7.2 On a monthly b	basis, the MSDB	Ongoing. The MSDB Consulting	
5	liologist will examine	Audiologist uses CHRIS to track and	
e	review the reporting of	complete referrals on children diagnosed	
	vices. By generating	with hearing loss. Cases are then	
	ren referred to MSDB by	assigned to statewide outreach	
-	arious intervention	consultants for intervention. Outreach	
criteria, the MS		consultants document intervention	
	ll be able to ascertain	services provided to children with	
-	te follow-up is occurring,	hearing loss in CHRIS.	
-	children who are LTFU.	-	
	ector will summarize	To be completed. The Project Director	
5	ality of screening; refer	is in the process of collecting the final	
	rrence of LTFU status for	2012 hearing screening data in	
	012 babies by April 30,	Hi*Track. The data is imported into	

2013, using preliminary birth certificate	CHRIS and matched with birth
information from the Office of Vital	certificate records and evaluation records
Statistics in the department. These	from audiologists. Results will be
preliminary summary data will be	available for reporting purposes when
finalized when birth certificate data are	2012 birth certificate data is finalized for
finalized for calendar year 2012.	calendar year 2012

Significant Program Changes:

There have been no significant program changes in Year 2 of the UNHSI grant cycle. There have been no staff changes to the Montana UNHSI program. The Hi*Track and CHRIS data systems continue to be used by the UNHSI program, with upgrades made to both databases during Year 2 as previously mentioned.

Plans for the Upcoming Year:

GOAL: The goal of the Montana Universal Newborn Hearing Screening program is to ensure that all babies born in Montana receive hearing screening by one month of age, needed audiological diagnosis by three months of age, and to assure appropriate intervention prior to six months of age, by addressing the continuum of LTFU issues.

Objective 1: By December 31, 2013, increase the statewide percent of Montana-born babies completing newborn hearing screenings by one month of age to 98% for calendar year 2013.

No significant changes are planned for this objective. The UNHSI program will continue to review screening data and provide feedback to birthing facilities and audiologists. Updated screening equipment will be provided to birthing facilities and possibly midwife birthing centers if department approval is granted in order to increase the number of babies who are born outside hospitals who get screened. Partnerships with the ACA Home Visiting Program will continue by providing training on hearing screening to home visitors. Screenings reported by existing pilot projects will be monitored for impact on LTFU.

Objective 2: By December 31, 2013 increase to 98% the cases born in calendar year 2013 who receive needed audiological evaluations by three months of age.

Audiologists will continue to have access to the CHRIS database to report diagnostic evaluation results. Funding will be provided to an audiologist practicing in one region of the state with a high LTFU rate for the purchase of diagnostic equipment. All other activities will be completed as planned.

Objective 3: Through March 31, 2014 expand the continuum of healthcare services and management for babies with confirmed congenital hearing loss and babies at risk for delayed and/or progressive hearing loss.

Activities will continue as planned, and the Project Director will continue to work with the Genetics Program staff to increase reporting of genetic testing

Objective 4: Through March 31, 2014 maintain the provision of culturally relevant educational materials for physicians and families about state and local resources and the full continuum of newborn hearing screening, assessment, and intervention services.

No changes are anticipated for this objective's activity plan. Educational materials will be developed and distributed and the Project Director will continue to attend relevant conferences to provide educational outreach.

Objective 5: Through March 31, 2014 maintain state level support to hospitals and health care providers providing obstetric services and to audiologist performing pediatric assessments for their reporting of UNHSI services to DPHHS.

Hi*Track will continue to be provided for birthing facilities to report screening results. The Stars Report has been replaced with a yearly individual hospital performance report as previously discussed. Two program staff will attend the annual EHDI meeting. Rather than regional meetings, the Project Director and quality assurance specialist will conduct onsite visits as were done in Year 2.

Objective 6: By July 31, 2013, expand the reporting and management capacity of the UNHSI program through support and enhancement of the CHRIS system for use by the statewide program to assist with LTFU tracking, tracking interventions and outcomes for children with diagnosed hearing loss and newborns and children identified as at risk for delayed onset or progressive hearing loss.

The UNHSI program will continue to support CHRIS enhancements and maintenance to improve the program ability to track children at risk for LTFU and monitor intervention and outcomes for children with hearing loss.

Objective 7: By March 31, 2014 evaluate the effectiveness and efficiency of Montana's UNHSI system through (a) analysis of HI*TRACK to determine the status of the refer rate for each of the birthing facilities, including those in which a NICHQ strategy has been implemented; (b) evaluate the timeliness of audiologic assessments of infants who did not pass their newborn screening; and (c) evaluate the timeliness of implementation of intervention between assessment and the beginning of the implementation through reports from the CHRIS software.

All planned activities will be continued. The Project Director will conduct data reviews to identify birthing facilities with high refer rates and address these issues by providing training and other program assistance as needed. The Data Coordinator will continue to provide technical data support. The MSDB Consulting Audiologist will receive all referrals electronically through CHRIS and maintain contact with audiologists and MSDB outreach staff.