Attachment 1 - Nevada EHDI Work Plan

Goal 1: The Nevada EHDI Program will have a complete data tracking system which allows for accurate and timely data collection as well as analysis for CDC survey and internal follow-up purposes

Objective 1: By March 2015, the Nevada EHDI Program will have a .5 FTE Data Analyst

Activities and Changes to Test	Program Staff or Stakeholder Responsible	Timeframe for Assessing Progress	Evaluation Data to Collect / Process Measures	Outcome Measures / How to Spread this Improvement
Obtain a .5 FTE Data Analyst in conjunction with the Nevada Office of Public Heath Informatics and Epidemiology (OPHIE)	 Program Manager EHDI Coordinator OPHIE Program Manager 	• December 2015	 Job description for data analyst position Position advertized 	 Data Analyst hired, trained and functioning to program and run routine data reports as needed for on-going tracking and follow-up of babes for grant requirements and program QI. Dedicated data analyst will increase the quantity and quality of data tracking and reporting abilities

Objective 2: By August 2015, the Nevada Web Enabled Vital Records Registry System (WEVRRS) Hearing Module will be modified to allow running of monthly reports of babies in need of follow-up

Activities and Changes to Test	Program Staff or Stakeholder Responsible	Timeframe for Assessing Progress	Evaluation Data to Collect / Process Measures	Outcome Measures / How to Spread this Improvement
Review follow-up lists currently pulled from separate follow-up database. Update and revise data fields needed in audiology and EI follow-up reports	 Program Manager EHDI Coordinator Follow-up Coordinator GBYS Coordinator 	• March 2015	List of data fields needed per report	List of data fields needed for grants, QI processes, and follow-up purposes. Data to be pulled from WEVRRS and program database, along with other sources
Meet with Office of Public	Program Manager	• March 2015	Meeting agenda and	The steps and timeframe for

Heath Informatics & Epidemiology (OPHIE) to review program needs and establish steps and time frame for completion	EHDI CoordinatorData Analyst		notes	build reports will be established
Build or modify follow-up and QI reports from the WEVRRS Hearing Module data	Data Analyst	• August 2015		Reports are built and able to be pulled manually
Automate pulling of reports	Data Analyst	• March 2016	Predetermined schedule is made outlining which reports are to be pulled and their run dates	• Reports of babies needing audiology, EI and GBYS follow-up are automatically generated on a set schedule and provided to Follow-up Coordinator. These reports will allow for rapid contact with parents to encourage and increase follow-up.

Objective 3: By August 2016, The number of babies who do not pass the hearing screen that have a primary care provider on record will increase from 60% to 80%

Activities and Change to Test	Program Staff or Stakeholder Responsible	Timeframe for Assessing Progress	Evaluation Data to Collect / Process Measures	Outcome Measures / How to Spread this Improvement
Confirm accuracy of PCP names currently provided by one Pediatrix hospital through: Contact Pediatrix Data Office Contact PCP Contact screening coordinator	 Administrative Assistant Data Analyst Guide By Your Side Coordinator Follow-up Coordinator 	• March 2015	 Monthly Pediatrix List of Referred Babies and their PCP Run chart of % accuracy of PCP names provided 	 Most reliable source to identify the PCP will be determined Develop PDSA to identify and test ways to access name of PCP from the accurate source Knowledge of the

Contact parent As needed; meet with Pediatrix Screening and data staff to develop and implement strategies to improve PCP accuracy				correct PCP will be determined rather than the attending physician. • Spread test to second Pediatrix hospital, and to a small rural hospital, etc	
Identify one Pediatrix hospital. Meet with hospital screening coordinator and data reporter to identify and implement strategies to increase number of PCPs reported by the hospital.	Data AnalystEHDI CoordinatorFollow-up Coordinator	August 2015	 Monthly Pediatrix list of referred babies with PCP Run chart of % of didnot-pass babies with name of PCP PDSA Worksheet 	An increased total percent of babies with name of PCP on record. EHDI program will contact more PCPs which will improve audiology follow up	
Identify a second Pediatrix hospital to train staff on demonstrated strategies to obtain and provide name of PCP	Data AnalystEHDI CoordinatorFollow-up Coordinator	• March 2016	 Monthly Pediatrix list of Referred Babies with PCP Run chart of % of didnot-pass babies with name of PCP 	If successful, spread training to additional Pediatrix hospitals, and then to small rural hospitals, etc	
Objective 4: By August 2017, the number of babies who do not pass the hearing screen that have a second point of contact on record will increase from 8% to 80%					
Activities and Change to Test	Program Staff or Stakeholder Responsible	Timeframe for Assessing Progress	Evaluation Data to Collect / Process Measures	Outcome Measures / How to Spread this Improvement	
Select one Pediatrix hospital to meet with screening coordinator and data reporter to identify and test strategies to increase number of babies with a second point of contact	Data AnalystFollow-up Coordinator	August 2015 and ongoing	 Monthly Pediatrix list of Referred Babies with second point of contact Run chart of % of didnot-pass babies with second point of contact PDSA Worksheet 	With additional contact points for each family, a improved opportunity to reach families and encourage and refer them for appropriate follow-up is realized	

reported.				• If successful, spread test to second Pediatrix hospital, and then to small rural hospital, etc
PDSA will be developed to test other non-hospital sources for second point of contact, i.e. by cross checking records with metabolic screens, Medicaid, etc	 EHDI Coordinator Administrative Assistant 	• March 2016	PDSA Worksheet	Two PDSAs will be planned
Carry out PDSA tests identified in the above activity for a predetermined number of babies	EHDI Coordinator Administrative Assistant	August 2016 and ongoing	Number of second points of contact needed vs. obtained from each source	 Knowledge will be gained if these two non-hospital sources are helpful for obtaining second point of contact. If successful, expand to include more babies without second contact. If not successful, develop PDSAs to test any remaining sources for second point of contact

Goal 2: Enhance Quality Improvement (QI) throughout the Nevada EHDI System

Objective 1: By August 2016, expand membership of EHDI Stakeholder Team beyond our current group consisting of EHDI Program staff, AAP chapter champion, early intervention provider, pediatric audiologist, and parents from AG Bell and NV Hands & Voices to represent all levels of screening, diagnostic, and early intervention.

Activities and Change to Test	Program Staff or Stakeholder Responsible	Timeframe for Assessing Progress	Evaluation Data to Collect / Process Measures	Outcome Measures / How to Spread this Improvement
Increase variety and number of members by inviting targeted individuals representing: urban and rural hospitals, screening staff, home births, Early Head Start, PCP, and ENT Identify additional gaps in membership and recruit as needed	 Program Manager EHDI Coordinator 	August 2015 and ongoing	 Compile a list all EHDI program components and roles. From this list determine which individuals or entities would best represent that program component. Receipt of a Letter of Intent to Participate from each proposed member 	 A team of stakeholders that represent all levels of screening, diagnosis and intervention as well as medical providers and family support services is compiled Diversity enhances the advisement abilities of the team and increases the opportunity for and success of improvement PDSAs in each aspect of EHDI.
Hold quarterly Stakeholder Team meetings	Program ManagerEHDI CoordinatorAdministrative Assistant	August 2015 and ongoing	AgendaMeeting scheduleMeeting minutes	Quarterly meetings will facilitate NV EHDI staying on task in progress toward goals
Review and revise aim statement and strategic plan	 Program Manager EHDI Coordinator 	August 2015 and ongoing	 Revised Aim Statement Revised Strategic Plan 	Aim statement and strategic plan will reflect federal grant recommendations and state specific goals to help ensure continued their buy-in and participation from partners and stakeholders

Objective 2: Beginning August 2015, Quality Improvement methodology will become a consistent driving force in the NV EHDI Program and our association with partners and stakeholders

Activities and	Program Staff or	Timeframe for Assessing	Evaluation Data to Collect /	Outcome Measures /
Change to Test	Stakeholder Responsible	Progress	Process Measures	How to Spread this
				Improvement
NV EHDI QI Team will meet monthly to develop, carry out, and review PDSA cycles	 Program Manager EHDI Coordinator Follow-up Coordinator Data Coordinator GBYS Coordinator 	August 2015Monthly	Meeting agendaMeeting minutesPDSA worksheetsPDSA logs	Monthly meetings will facilitate consistent QI efforts and progressing toward established goals
NV EHDI will use the PDSA cycle in QI strategies	Program ManagerEHDI CoordinatorFollow-up Coordinator	August 2015Monthly	Meeting agendaMeeting minutesPDSA worksheetsPDSA logs	Monthly QI Team meetings will demonstrate the use of the PDSA cycle

Goal 3: 90% of infants who do not pass the final hearing screen will receive diagnostic audiology by three months of age and have those results on record with the NV EHDI Program

Objective 1: By March 2015, The EHDI Program will have a dedicated .5 FTE infant Follow-up Coordinator

Activities and Change to Test	Program Staff or Stakeholder Responsible	Timeframe for Assessing Progress	Evaluation Data to Collect / Process Measures	Outcome Measures / How to Spread this Improvement
The job title and duties of the current infant Data and Follow-up Coordinator will be modified to include just Infant Follow-up Coordinator responsibilities. Duties will be shifted away from data collection and monitoring to focus only on follow-up activities	 Program Manager EHDI Coordinator 	 March 2015 The timing and success of this change is linked to Goal 1, Obj. 1: Data Analyst 	 A .5 FTE Data Analyst position must be in place prior to implementation of this activity Job title and description will formally change to Infant Follow-up Coordinator 	 The EHDI Program will have a dedicated .5 FTE follow-up coordinator Additional staff time dedicated to follow-up activities will result in a drop in LTF/LTD

Objective 2: By August 2017, Loss to follow-up will decrease from 51% to 20% by building links between parents and providers Activities and Program Staff or Stakeholder Timeframe for **Evaluation Data to Collect** Outcome Measures / Responsible How to Spread this Improvement Change to Test Assessing / Process Measures **Progress** A test hospital will be **EHDI Coordinator** Baseline audiology Increase in audiology follow-March 2015 provided one-page list of follow-up rate from this up for babies whose PCP Follow-up Coordinator and ongoing pediatric audiologists (based received the list of hospital **Hospital Screening** on EHDI-PALS filtering of 0-Names of babies whose audiologists Stakeholder 5 months of age) and the 1-3-PCP received the Expect the age at audiology AAP Chapter Champion 6 guidelines. The hospital audiology list follow-up for these babies will will give this list to the PCP be younger than 3 months Compare follow-up of each baby that does not If successful, activity will be rate of babies whose pass the final screen. This PCP got the list to the continued and spread to two activity will take place for a similar hospitals, then expand baseline pre-determined number of in a rural hospital, etc babies or a specific period of time The EHDI Program will send **EHDI Coordinator** August 2015 Notification letter and Knowledge if increased notification of a baby's didaudiology follow-up occurred and ongoing pediatric audiology/1-Data Analyst not-pass screen result along for babies whose PCP Timing and 3-6 list Follow-up Coordinator with the list of pediatric received the notification and success of Baseline audiology AAP Chapter Champion audiologists to two test PCPs follow-up rate for these list of audiologists this change is for a pre-determined number **PCPs** Expect to see a higher linked to of babies or period of time percentage at audiology successful Compare follow-up younger than 3 months for completion rates of test babies to of Goal 1, this test group the baseline Objective 2: If successful, activity will Name of continue with this PCP and PCP on test will spread to two Record additional PCP's, etc **EHDI Coordinator** Laminated poster size March 2016 List of hospitals who 1-3-6 guidelines and pediatric

Follow-up Coordinator

pediatric audiologist list with

audiology list will be posted

have/have not received

1-3-6 guidelines will be distributed in person to all well baby nurseries and NICUs	AAP Chapter Champion		poster	in all birthing hospital nurseries. • Accessible Guidelines/pediatric audiologists list are expected to help nurses, screeners and PCPs to make timely and appropriate referrals
Laminated poster size pediatric audiologist list with 1-3-6 guidelines will be distributed in person to key PCPs and ENTs	 EHDI Coordinator Follow-up Coordinator AAP Chapter Champion 	• March 2016	List of PCPs and ENTs who have/have not received poster	 1-3-6 guidelines and pediatric audiology list will be posted in key PCPs and ENTs offices Accessible Guidelines/pediatric audiologists list are expected to help nurses, screeners, PCPs, and ENTs to make timely and appropriate referrals
Based on successful tests conducted over the past year, NV EHDI will adopt statewide that families with a baby that does not pass the hearing screen will receive a notification of the screen results, the NCHAM roadmap, and a list of local pediatric audiologists	 Data Analyst Administrative Assistant Follow-up Coordinator 	March 2015 and ongoing	 List of babies who were referred on final screen List to be pulled every two weeks 	 All families will be notified of babies did-not-pass status and provided resources for follow-up By knowing where and when to go for follow-up, rates are expected to improve
Families of three month old babies that are lost to audiology follow-up will be called to encourage follow-up. EHDI will also recommend an	Data AnalystFollow-up CoordinatorGBYS Coordinator	 March 15 Timing and success of this change is linked to 	 A list of three month old babies that are lost to audio follow-up pulled every 2-4 weeks. Number of babies 	 Expectation to see the loss to follow-up rate for these babies decrease prior to 6 months of age. A list of reported barriers that

audiologist from the pediatric list.		successful completion of Goal 1, Obj 3: Second Point of Contact	contacted by GBYS Coordinator • Anecdotal info on why baby was lacking follow-up • Percent of contacted babies that have audiology records by 6 months of age	 inhibit or prevent timely audiology follow-up will be available Identity of babies that are actually lost to documentation, not follow-up will be known A list of offices to contact to obtain records and provide training on documentation will be created
Objective 3: By August 2017	, Hospitals will schedule an audio	ology appointment f	for 80% of babies who do not	pass the final hearing screen
Activities and Change to Test	Program Staff or Stakeholder Responsible	Timeframe for Assessing Progress	Evaluation Data to Collect / Process Measures	Outcome Measures / How to Spread this Improvement
Survey 18 birthing hospitals to identify their current practices regarding scheduling audiology appointments prior to discharge	 EHDI Coordinator Follow-up Coordinator Administrative Assistant Hospital Screening Stakeholder 	• March 2015	 Survey and compiled results Information obtained will be used to start draft of a training module 	Draft training module to assist hospitals that are not scheduling audiology appointments
Meet with hospital that has some success with scheduling audio appointments, AAP Chapter Champion, and PCP stakeholder and/or community PCP to discuss audio scheduling from all viewpoints	 EHDI Coordinator Follow-up Coordinator Administrative Assistant GBYS Coordinator Hospital Screening Stakeholder PCP Stakeholder 	• August 2015	 Meeting agenda and notes Information obtained will be added to draft of a training module List of Q&As 	Final version of training module and materials that will be used to assist hospitals that are not scheduling audiology appointments
Test hospital will be trained to schedule audiology appointment prior to	EHDI CoordinatorFollow-up CoordinatorHospital Screening	August 2015 and ongoing	Baseline audiology follow-up rate from this hospital	Expect to see increased audiology follow-up rate due to family being more likely to

discharge for a pre-determined number of babies or period of time	Stakeholder		 List of babies that were scheduled. Compare follow-up rate of babies scheduled to baseline 	 attend appointment if it is already scheduled. If successful, activity will continue at this hospital and spread test to another hospital, etc
One audiology office will test scheduling of appointments two weeks apart	EHDI CoordinatorFollow-up CoordinatorAudiology Stakeholder	August 2016 and ongoing	Run chart of age-at- diagnosis for babies from this office pre and post test	 Expect to see the age of diagnosis decrease for babies from this office If successful, activity will continue at this office and spread to another office, etc

Objective 4: By August 2017, Loss to documentation will decrease from 51% to 20% as a result of improving record sharing between PCPs, audiologists, and the EHDI program

Activities and Change to Test	Program Staff or Stakeholder Responsible	Timeframe for Assessing Progress	Evaluation Data to Collect / Process Measures	Outcome Measures / How to Spread this Improvement
The EHDI Program will contact two audiology offices to request records of undocumented hearing tests determined through parent phone calls	 Data Analyst Administrative Assistant Follow-up Coordinator 	August 2015 and ongoing	List of hearing test records not documented with EHDI from info obtained from parent phone calls on LTF/LTD babies	 LTF/LTD will decrease do to EHDI obtaining additional records Offices in need of training on how to report hearing test results to EHDI Program will be identified
Two interested PCP offices will be selected to test a fax-back form to report in-office OAE rescreens	 Data Analyst EHDI Coordinator Follow-up Coordinator AAP Chapter Champion PCP Stakeholder 	August 2015 and ongoing	 List of PCP offices currently providing OAE rescreens List of did-not-pass babies assigned to these PCPs 	 EHDI will begin receiving OAE results from PCPs Improved documentation of passed OAE rescreens by PCPs will reduce overall number of babies in need of audiology, effectively reducing the LTF/LTD rate If test is successful, activity

				will spread to new PCPs
Identify two audiology offices with high numbers of undocumented audiology reports to receive training on using the audiology fax-back form to report hearing test results to the EHDI Program	 EHDI Coordinator Follow-up Coordinator 	March 2016 and ongoing	 List of hearing test records not documented with EHDI from information obtained from parent phone calls on LTF/LTD babies Audiology Fax back reporting form developed 	 With successful training, additional audiology reports will be received, leading to a decrease in LTF/LTD If successful, activity will spread by identifying and training two additional audiology offices
Objective 5: By March 2016, 90% of EHDI program's parent contact phone calls and parent educational materials will be available in both English				

Objective 5: By March 2016, 90% of EHDI program's parent contact phone calls and parent educational materials will be available in both English and Spanish

Activities and Change to Test	Program Staff or Stakeholder Responsible	Timeframe for Assessing Progress	Evaluation Data to Collect / Process Measures	Outcome Measures / How to Spread this Improvement
Nevada Hands & Voices GBYS Program will interview and hire a Spanish Parent Guide	 EHDI Coordinator Follow-up Coordinator GBYS Coordinator 	• March 2015	 Advertize for applicants Interview applicants 	 Nevada Hands & Voices will have a bilingual (English-Spanish) GBYS Parent Guide to help with audiology follow-up phone calls and parent guide services Use of a Spanish guide will help reach an under-served population. If successful, other languages used within our state that might be appropriate for spread will be considered
Parent educational materials, letters, and roadmaps will be translated into Spanish	EHDI CoordinatorFollow-up CoordinatorGBYS Coordinator	• March 2016	Determine documents which need translation	Parent materials and letters will be in both English and Spanish which is expected to

	Spanish GBYS Parent Guide			help reduce loss to follow-up among Spanish speaking parents If successful, other languages used within our state that might be appropriate for spread will be considered
	, 75% of birthing hospitals will man hearing screening" developed b			d – What to do if your baby didn't
Activities and	Program Staff or Stakeholder	Timeframe for	Evaluation Data to Collect	Outcome Measures /
Change to Test	Responsible	Assessing Progress	/ Process Measures	How to Spread this Improvement
The Nevada EHDI Program will collaborate with National Hands & Voices and the AAP to get the "Loss & Found" video distributed to and utilized by birthing hospitals • Purchased rights to the video with the Nevada contact information added by National Hands & Voices has already been obtained • An interested test hospital will be identified and a meeting set up to discuss testing of the video	 Program Coordinator EHDI Coordinator NV Hands & Voices GBYS Coordinator National Hands & Voices AAP Chapter Champion Hospital Screening Stakeholder 	August 2015 and ongoing	Multiple copies of the video with the Nevada contact information added by National Hands & Voices are already obtained	 An EHDI and H&V jointly developed plan is in place regarding testing and spreading of this video Test hospital will receive the video

Goal 4: 90% of babies with permanent hearing loss will be enrolled in early intervention by six months of age by building links and improving communication between stakeholders

Objective 1: By August 2017, for those babies enrolled in EI, the percent enrolled by six months will increase from 82% to 90%.

Activities and Change to Test	Program Staff or Stakeholder Responsible	Timeframe for Assessing Progress	Evaluation Data to Collect / Process Measures	Outcome Measures / How to Spread this Improvement
Families of babies with confirmed permanent hearing loss will be mailed a packet of resources which includes the "Beginnings" booklet and information about Nevada Hands & Voices Guide By Your Side Program	 Data Analyst Follow-up Coordinator GBYS Coordinator 	March 2015 and ongoing	 List of babies with confirmed hearing loss pulled every 2-4 weeks Number families mailed a packet Percent of families that return Guide By Your Side Release of Information form Run charts of percent and age of babies enrolled in early intervention to compare before and after this activity 	 Received and signed Guide By Your Side Release of Information forms Expect to see the EI enrollment rate increase Expect to see EI enrollment by 6 months of age increase
Families of babies with confirmed permanent hearing loss will be called to discuss the resource packet (mentioned above) and the NV Hands & Voices Guide By Your Side Program	 Data Analyst Follow-up Coordinator GBYS Coordinator 	March 2015 and ongoing	 List of babies with confirmed hearing loss pulled every 2-4 weeks Number families mailed a packet Percent of families that return Guide By Your Side Release of Information form Run charts of percent and age of babies enrolled in early intervention to compare before and after this 	 Received and signed Guide By Your Side Release of Information forms Expect to see the EI enrollment rate increase Expect to see EI enrollment by 6 months of age increase

			activity	
Families of babies with hearing loss who have not enrolled in EI by six months will be contacted by phone to identify reasons for non-enrollment and to encourage enrollment	Data AnalystFollow-up CoordinatorGBYS Coordinator	March 2016 and ongoing	 List of babies not enrolled in EI by 6 months of age List of questions to ask parents Local EI contacts for each region 	 Obtain a better understanding of the barriers, reasons, or trends for non-enrollment in order to develop an appropriate PDSA to increase enrollment Expect this additional contact with families will also increase enrollment in EI