

Acknowledgement of Funding

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Learning Objectives

At the end of this presentation, participants will be able to:

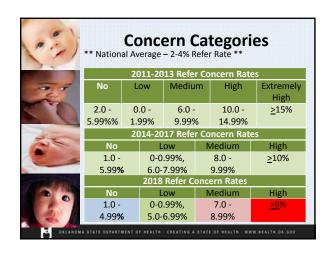
- Identify ways to track and integrate hospital hearing screening data within EHDI
- Learn how to maximize EHDI Hospital Hearing Screening Reports
- Learn ways to enhance partnerships with hospitals and outsourced vendors

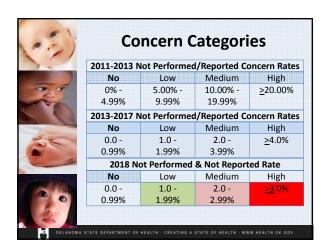


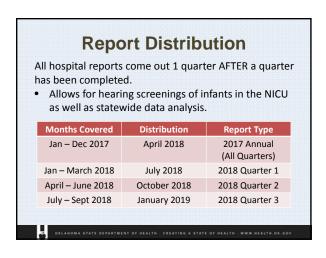
Hospital Hearing Reports History of Hospital Hearing Reports Prior to launching Hospital Hearing Reports, informal surveys were completed Hospitals asked if they were SCREENING all infants at their hospitals per state mandate Hospitals asked if they were REPORTING all infants at their hospitals per state mandate Hospitals AID "YES OF COURSE" However OK NHSP knew that wasn't true Children not being screened prior to discharge NHSP had to contact hospitals for missing and conflicting results on regular basis



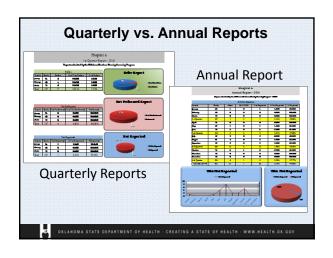


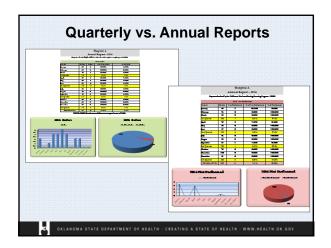




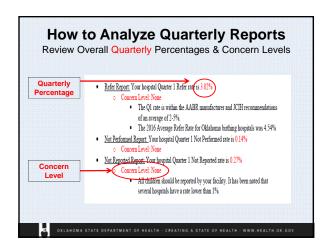


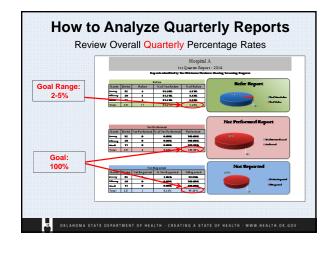


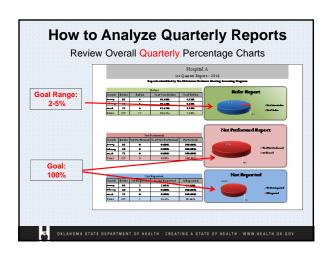


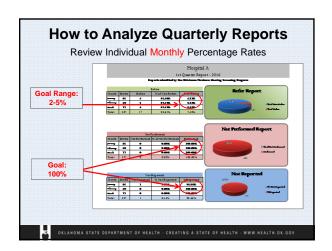








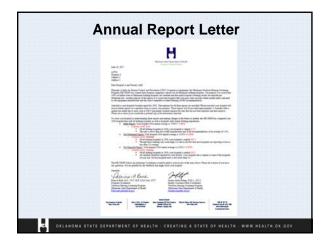




How to Analyze Quarterly Reports

Review Individual Monthly Percentage Rates

- Are there any increases (concerns) or decreases (improvements) noted?
 - If yes, when?
 - ASK: What was happening around that time?
 - New staff
 - Management Change
 - Cable issues
 - · Machine not working
 - Holidays
 - Training received



How to Analyze Annual Reports

Review Overall Annual Percentages & Concern Levels

To assist your hospital in understanding these reports and making changes in the future as needed, the OK NHSP has compared your 2016 hospital data with all burthing hospitals as well as hospitals with similar burthing populations.

• <u>Refer Report</u>: Your hospital 2016 annual average is 73:931 = 7,84%.

• <u>Concern Level Low</u>

- Concern Level: Low
 of Of all birthing hospitals in 2016, your hospital is ranked 47/51.
 The rate is above than the AABR manufacturer and XCH reconsorted the Report Your hospital 2016 annual average is 22931 = 2,86%.
 Concern Level: Medium
- Concern Level: Medium
 Of all birthing hospitals in 2016, your hospital is ranked 44/51
 Though these rankings may seem high, it is due to the fact that most hospitals are reporting or have a less than 1/8 average.

 Not Reported Report Your hospital 2016 annual average is 23/931 = 2.47%
- - - neem Level: Stedum

 Of all burtings hospitals in 2016, your hospital is ranked 26/51

 All children should be reported by your facility. Your hospital rate is similar to some of the hospitals of your size. Several hospitals have a rate lower than 1%.
- Annual Percentage
- Concern Levels
- Hospital Comparison Ranking

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How to Analyze Annual Reports

Review Overall Annual Percentages & Concern Levels

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**Refer Report Town Dought 1946 ammal average is 73/931 = 7.844%

**Concern Level: Low

**Of the birthings Propriets in 2016, your hospital is ranked 47/51

**The rate is above than the AABR manufacturer and ICHI recommendations of an average of 2-4%.

**Not Perform Expect. Your Doughal 2016 ammal average is 22/931 = 2.364%.

**Of Concern Level: Medium)

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 - Level: Medium.

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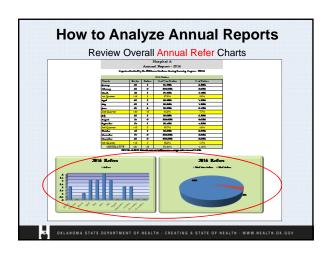
How to Analyze Annual Reports

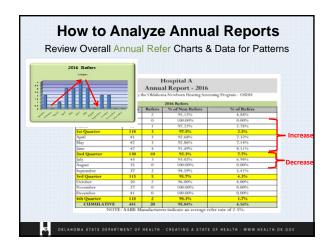
Refer Rate Reports

Refer (Not Pass) Rate

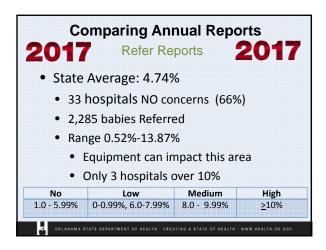
According to Automated Auditory Brainstem Response (AABR) manufacturers, 2-4% is the average rate for refers (babies who did not pass the hearing screening). All babies that "refer" need additional testing to determine if hearing loss is present. A high Refer Rate may be indicative of improper screening techniques (electrode placement, noisy child/environment, etc.) or having equipment that is not calibrated annually.

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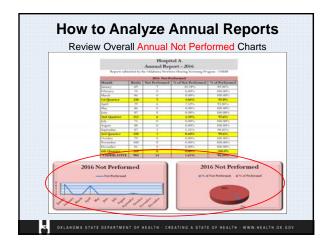


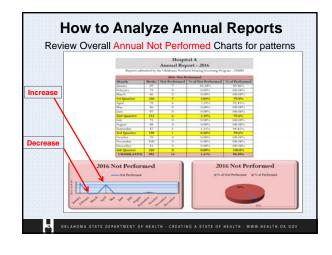


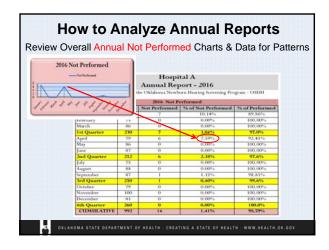
Tips for Reducing Refer Rates Make sure equipment is working properly Equipment checks Required annual calibration Have back-up cables on hand Ensure good quality hearing screenings Know when and how to best screen Proper baby selection Properly prepare for screen Complete troubleshooting Know potential problems during screening Natus Technical support (free) Request a training from OSDH NHSP Staff (as needed)

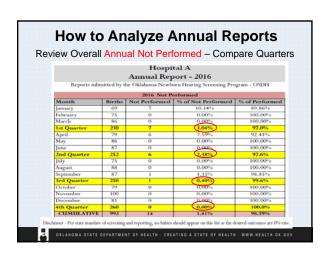












Tips to Ensure ALL Babies are Screened

- Develop Systems & Processes to ensure all infants are screened prior to discharge
 - Review hospital processes with management and screening personnel
 - ➤ Develop Quality Assurance measures to ensure all babies are screened and results are reported
 - Partner with hospital laboratory regarding transfer of bloodspot filter papers
- Make sure equipment is working properly
 - > Equipment checks
 - > Required annual calibration
 - ► Have back-up cables on hand

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Tips to Ensure ALL Babies are Screened

- > Track supplies to ensure no lapses in screening
 - ➤ Supplies are to be purchased by the hospital
 - > Know the time needed for hospital procurement
 - ➤ Hold back a box of supplies in management office
- > Share hospital's Not Performed reports each quarter
 - ➤ Staff Meetings
 - Nurse's Station
- > Remind staff about State Law for screening
- > Request a training from OSDH NHSP Staff (as needed)

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Comparing Annual Reports

2017 Not Performed Reports 2017

- State Average: 0.27%
 - 44 hospitals NO concerns
 - o Less than 1% Not Screened
 - o 27 way tie ALL babies Screening
 - o 8 hospitals missed ONLY 1 baby
 - o 6 hospitals missed ONLY 2 babies

0.0 - 0.99% 1.0 - 1.99% 2.0 - 3.99% ≥4.0%

How to Analyze Annual Reports

Not Reported Reports

Not Reported Rate

State mandate indicates that all hearing screenings need to be reported to the Oklahoma Newborn Hearing Screening Program. There are several reasons why the hearing tests were not reported:

- Babies still in NICU
- Loss documentation (did not send result)
- Oversight by screeners

The rates are based on the month it was requested and not the month of birth

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Not Performed vs. Not Reported

Rule of Thumb

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"Not Performed"

- ✓ Baby is no longer in hospital
- ✓ Baby was not screened
- ✓ Thus <u>no</u> results available

"Not Reported"

- ✓ Baby was screened
- ✓ No results sent to NHSP



Not Reported Requests

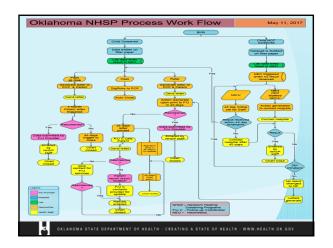
NHSP requests both missing & conflicting hearing results

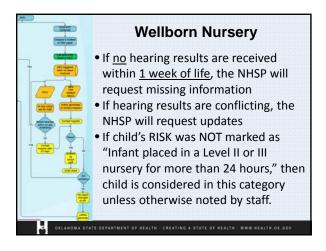
"Missing"

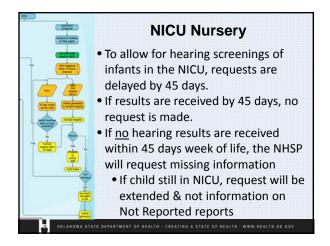
- ✓ Hearing results not sent via bloodspot filter
- ✓ Subsequent hearing results <u>not</u> sent via fax or email after bloodspot filter left facility

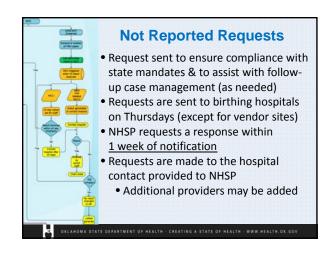
"Conflicting"

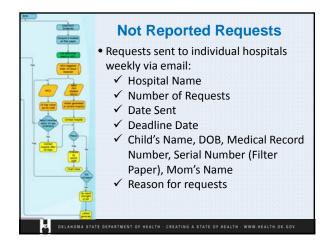
- ✓ Ex. Marked both "Pass" and "Refer"
- ✓ Ex. Missing results for one ear



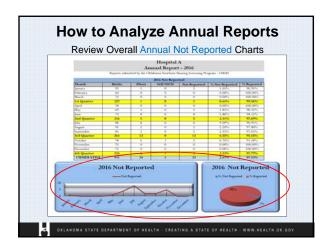


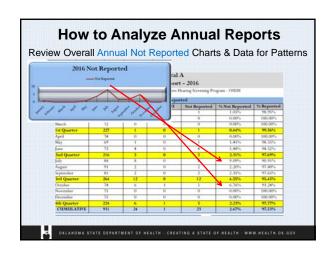






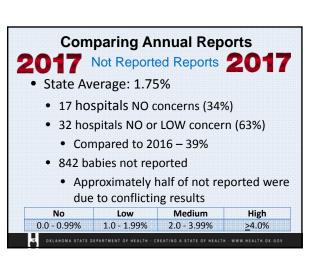




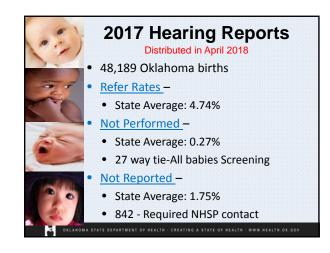


Tips to Ensure ALL Results are Reported > Complete Hearing Screenings Prior to Bloodspot > Hearing Screenings can occur as early as 6 hours of life > Bloodspot taken at 24 hours + 1 minute > Enter Results on the Bloodspot Filter Paper > Make sure to mark both Right and Left ear Results > Make sure to transfer results if bloodspot is redone > Make Corrections Properly > If there are conflicting results, a request will be made > Check the size of your "x" on the filter > If the marking touches multiple boxes, our laboratory is not able to "guess" or "assume" results > Check bloodspot before sending filter to Lab

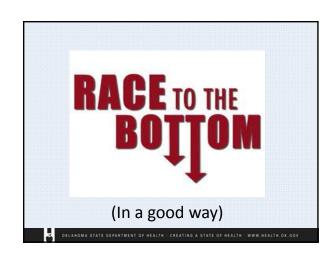
Tips to Ensure ALL Results are Reported ➤ Know ways of reporting screened later than 48 hours ➤ Fax 405-271-4892 ➤ Email to the NHSP: PatriciaAB@health.ok.gov ➤ Mail to 1000 NE 10th Street, Room 709, OKC, OK 73117 ➤ Share hospital's Not Reported reports each quarter ➤ Remind staff about State Law for reporting all results ➤ Request a training from OSDH NHSP Staff (as needed)

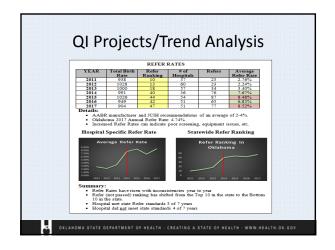


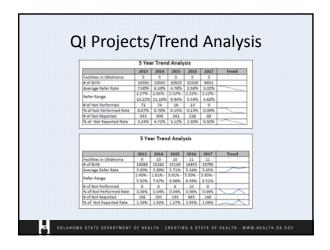




	2013	2014	2015	2016	2017
Refer Rate	5.55%	5.69%	5.91%	4.54%	4.74%
State Average	Goal Range: 2-5%				
Total Referred (Not Passed)	2,840	2,913	3,020	2,273	2,285
Not Performed State	0.85%	0.86%	0.59%	0.66%	0.27%
Average	Goal: 0% Not Reported / 100% Screened				
Sites screening all infants	12	18	19	24	27
Not Reported State Average	3.12%	4.28%	2.72%	3.02%	1.75%
	Goal: 0% Not Reported / 100% Reported				
Total Not Reported	1,598	2,192	1,391	1,511	842
Total Birth	51,160	51,187	51,085	50,079	48,189







CONGRATULATIONS TO 10 HOSPITALS NO CONCERNS IN 2017

- Each hospital ONLY receives their information
- However, NHSP is partnering the with OSDH Newborn Screening Program "Every Baby Counts" website to launch Transparent Hearing Reports
- Webinars began in 2017 to:
 - Share the statewide data
 - Provide tips on improvement
 - Congratulate sites meeting "state standards" (No Concern on all 3 reports...screen and report all babies with appropriate Refer Rates)

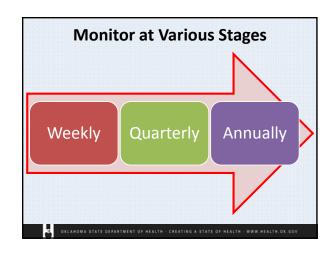
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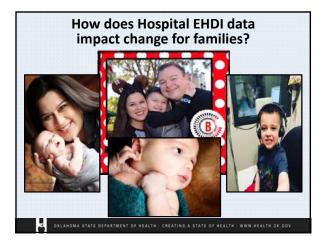


Tips to Improvement

- Monitor data along the way
 - ➤ Daily: Within facility, individual children
 - ➤ Weekly: Requested Results Emails
 - ➤ Monthly/Quarterly & Annually: NHSP Reports
- > Look for Spikes in data and quickly adjust
 - > Try to pinpoint causes of data change (good & bad)
- > Seek assistance from NHSP
 - ➤ Phone call/emails to review data
 - ➤ Quality Improvement projects
 - Request a training from OSDH NHSP Staff (as needed)

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How has OK NHSP Hospital Hearing Reports impacted change for Oklahoma families

- Within the last 5 years (2013-2018), OK NHSP Hospital Hearing Reports have impacted:
 - 250,000 infants born
 - 50+ Oklahoma birthing hospitals
- Reports helped the OK NHSP provide targeted education/troubleshooting for individual hospitals and/or outsourced vendors
- Reports identified top performers who were able to provide feedback on running quality hearing programs
- Hospital reports have improved the quality of care at hospitals regarding hearing screenings
 - · Consistent quality screening



How has OK NHSP Hospital Hearing Reports impacted change for Oklahoma families

- Ensuring screening prior to discharge assists with early identification of hearing loss
 - Ex. Each year, several children in OK diagnosed with hearing loss within 1 week of life
- Proper reporting ensures timely and accurate correspondences/case management/follow-up with parents and PCP/Medical Home Providers
- High Refer Rates burden follow-up clinics and reduces the availability of timely appointments
- Low Refer Rates reduces parent/caregiver stress
- Early identification of hearing loss and early intervention placement gives children more options

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OK Newborn Hearing Screening Program

Contact Information
 Patricia Burk, Program Manager
 1000 N.E. 10th Street
 Oklahoma City, OK 73117

1-800-766-2223 405-271-6617 fax: 405-271-4892

<u>PatriciaAB@health.ok.gov</u> web: http:/nhsp.health.ok.gov

