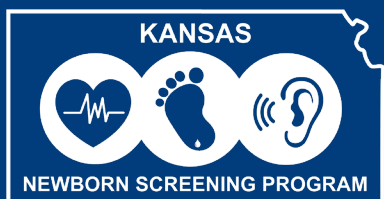


# Kansas Newborn Screening



# About the Kansas Newborn Screening Program

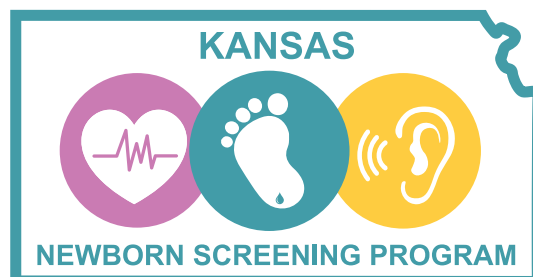
The Kansas Newborn Screening team is profoundly appreciative of the unwavering commitment and tireless efforts of our health care partners throughout the state. These dedicated individuals play a pivotal role in enhancing the well-being of Kansas newborns and their families. The continued success and effectiveness of our program relies on a harmonious and purposeful collaboration between the follow-up team, the health chemistry laboratory team, the families in Kansas and you, our esteemed health care partners. Together, we are making a significant difference in the lives of the youngest members of our community. In collaboration with the Kansas Hospital Association (KHA) and the Kansas Midwives Alliance (KMA), we are pleased to extend our recognition to facilities and midwives who demonstrated excellence in newborn screening during the year 2022.

## About Annual Recognitions

The annual awards booklet will feature some notable changes compared to previous years. These modifications have been implemented with the aim of enhancing the way we acknowledge the valuable contributions of all the partners who play a vital role in the success of Kansas newborn screening.

Recognizing the distinct characteristics of Kansas, particularly the diversity in facility types and birthing populations, we have adjusted our evaluation methods. To ensure a fair representation and recognition across various facility sizes, we have extended awards to those who have not only met state goals but also excelled within their respective size categories. Additionally, we are introducing two new award categories: one for midwives and another for screening facilities.

The “screening facilities” category includes facilities that have conducted blood spot screenings and will exclusively be recognized in the metabolic and genetic recognition categories. These changes are designed to promote fairness and inclusivity in our recognition process and to reflect the unique landscape of Kansas in our awards program.



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# What Recognition Means

To earn recognition means that your facility clearly demonstrated a consistent effort to meet or exceed state screening goals in 2021. State Newborn Screening goals are:

## Critical Congenital Heart Defects (CCHD)

- Screening status reported for 100% of infants born

## Hearing Loss

- 100% of babies born are screened within 1 month of age
- Diagnostic evaluation complete within 3 months of age
- Infants with hearing loss receive early intervention services within 6 months of age
- Facility referral rates remain within the expected range for their screening equipment

There are two types of screened equipment used: OAE and AABR. No more than 8% of babies screened with OAE equipment should be referred for diagnostic testing. No more than 4% of babies screened with AABR equipment should be referred for diagnostic testing. Higher than expected referral rates indicate that the screeners may not have consistently used correct screening procedures or technique.

## Metabolic and Genetic Conditions

- 1.30% or less of all specimens submitted to the Kansas Health and Environment Laboratory (KHEL) are rejected as “Unsatisfactory”
- Average collection age for specimens is 24 hours of age
- Average elapsed time from collection to delivery at KHEL, “transit time,” is 24 hours
- 100% of specimens have complete and correct demographic information

Meeting these goals requires a dedication to higher screening standards and continuous improvement. Birthing facilities and newborn providers must employ consistent training, efficient protocols, and effective internal communication to meet these goals. Facilities and providers named in these recognitions demonstrate their dedication to higher quality newborn screening through meeting screening goals, showing improvement over time, or exceeding state average performance rates.

# Recognition Categories and Awards

There are six award categories. Each category is described based on what would qualify a facility.

## Category 1: Complete Demographics Recognition

Complete demographics information is necessary to accurately interpret screening results and report them to health care providers in a timely manner.

## Category 2: Hearing Screening

Early hearing loss detection provides babies the best possible chance at healthy development.

To make this category as equitable as possible, we evaluated health care professionals, birthing hospitals and midwives based on the number of babies who received screenings (as opposed to the number of babies born). This prevents exclusion bias caused by families who do not consent to screening. This number was then compared to the number of infants who were screened within one month. Neonatal intensive care unit and transfer status were also accounted for and did not negatively impact the resulting screening rates. Health care professionals meeting the criteria were further evaluated for their referral rates with Otoacoustic Emission (OAE) and Auditory Brainstem Response (ABR) screening equipment. Those meeting both criteria received recognition.

There are two types of screened equipment used: OAE and AABR. No more than 8% of babies screened with OAE equipment should be referred for diagnostic testing. No more than 4% of babies screened with AABR equipment should be referred for diagnostic testing. Higher than expected referral rates could be indicative of screening errors.

To receive recognition in this category, All babies screened have been screened within one-month of age and referral rates remain within the expected range for the type of equipment used.

## Category 3: Critical Congenital Heart Disease (CCHD)

About one in every four babies born with a heart defect has a critical congenital heart defect (critical CHD, also known as critical congenital heart disease). Babies with a critical CHD need surgery or other procedures in the first year of life.

Awards in this category were given to facilities with 100% screening rate or the top performing facilities in their respective size category.

# Recognition Categories and Awards

## Category 4: Collection Age

Collection age is critical to achieving timely and accurate results. When a specimen is collected before the baby is 24 hours of age, the specimen can be affected by the mother's analytes. These additional analytes can cause a false positive or false negative when the laboratory completes the test, which may result in the baby needing a repeat screen.

To achieve in this category, the average age at time of collection for initial screens should be between 24 and 30 hours of age. NICU babies collected before 24 hours of age were excluded from this analysis. For the categories that do not have any locations meeting this criterion, the top 5% of locations were determined the winners.

## Category 5: Transit Time

Transit time is an important factor in ensuring the specimen is optimal for testing. The goal is for the specimen to arrive at the state lab within 24-hours from the time of collection. Overnight mail services or couriers are recommended to meet this standard.

To be recognized in this category, facilities must have an average transit time of less than 36 hours or be in the top five percent of their respective size category.

## Category 6: Unsatisfactory Rate

The unsatisfactory rate is the percentage of specimens submitted that meet testing requirements. An unsatisfactory determination can result from a number of factors, some of which include: quantity not sufficient, blood spots per calibrated circle, blood on the coverlet, wrinkled or abraded spots, or uneven saturation of the filter paper.

Low unsatisfactory rates yield better testing results and places less burden on baby and family when having to repeat the screen.

To be recognized in this category, facilities must have an unsatisfactory rate of 1.3% or less or be in the top 5% of their respective size category.

# Recognition Categories and Awards

## Gold Recognition

### Qualification Criteria:

Providers must earn recognition in three or more categories to earn this designation.

### Awardees will receive:

- A recognitions plaque.
- Enhanced media kit including a press release template, an email or article template, sample social media content and an exclusive digital award badge that can be used on their website or other digital sites.



## Silver Recognition

### Qualification Criteria:

Providers must earn recognition in two categories to earn this designation.

### Awardees will receive:

- Custom printed certificate.
- Enhanced media kit including a press release template, an email or article template, sample social media content.



# Midwife Winners

## Complete Demographics

Criteria	Demographic information was 100% complete for every month.
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Amy A Sparks, DEM	Life Center Clinic
Anita Woods, Certified Professional Midwife	Lily Mason Midwifery
Barefoot Midwifery	Midwife Partners in Women’s Wellness, LLC
Bethany Page Midwife	No Greater Love Midwifery
Blessed Event Birth Services, Inc.	Rachel Andresen Midwife
Bloom Midwifery and Lactation	Sacred Song Homebirth
Born Midwifery	Simply Midwifery
Brenda Frankenfeld Midwife	Sunflower Birth and Family Wellness
Created for Praise Midwifery	Truly You Midwifery
Dreaming Tree Women’s Care	Wichita Birth Assistance
Fruitful Vine Midwives	Young Beginnings
Immanuel Birth Co.	





# Midwife Winners

## Hearing Screening

### Criteria

100% of babies screened, were screened within the first month of life **and** referral rates remained at or below the recommended rate for the equipment used in all four quarters of 2022.

Dreaming Tree Women's Care

Sunflower Birth and Family Wellness

Life Center Clinic

Truly You Midwifery

Midwife KC

Young Beginnings

Sacred Song Homebirth

## Critical Congenital Heart Disease (CCHD)

### Criteria

Screening status reported for 100% of infants born.

Born Midwifery

Life Center Clinic

Midwife Partners in Women's Wellness, LLC

Truly You Midwifery

Created for Praise Midwifery

Lily Mason Midwifery

Sacred Song Homebirth

Midwife KC

Immanuel Birth Co.

Young Beginnings

Sunflower Birth and Family Wellness

## Collection Age

### Criteria

Year to date average is less than 30 hours.

Barefoot Midwifery

Truly You Midwifery

# Midwife Winners

## Transit Time

Criteria	Year to date average is less than 36 hours.
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Bethany Page Midwife

Fruitful Vine Midwives

## Unsatisfactory Rate

Criteria	Year to date average is equal to or less than 1.3%.
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Amy A Sparks, DEM

Brenda Frankenfeld Midwife

Barefoot Midwifery

Unsatisfactory rate was based on the count of unsatisfactory specimens divided by the total number of specimens received in 2022. Specimens that had multiple rejection codes were only counted once. Rejection code 981 (specimen was wet when received) was excluded, as this is caused by shipping issues, not collector error. Average collection age and transit times were calculated using **initial** specimens only.



# Birthing Hospital Winners

**Birthing Hospital size classes are as follows:**

<b>Very Small</b>	<b>=</b>	<b>5 - 100</b>
<b>Small</b>	<b>=</b>	<b>101 - 500</b>
<b>Medium</b>	<b>=</b>	<b>501 - 1,000</b>
<b>Large</b>	<b>=</b>	<b>more than 1,001</b>

## Complete Demographics

Full and complete demographic information on the blood spot collection form is critical to ensuring timely reporting and interpretation of results when complete.

### Criteria

Demographic information was 100% complete for every month or is the top performing facility in their respective size category.

### Large Facilities

Stormont Vail Health

### Medium Facilities

HaysMed

### Small Facilities

Coffeyville Regional Medical Center

McPherson Hospital

The University of Kansas Health System—Great Bend Campus

### Very Small Facilities

Amberwell Hiawatha

Gove County Medical Center

Hospital District #1 of Rice County

Morris County Hospital

Nemaha Valley Community Hospital

Norton County Hospital

Republic County Health Center

Scott County Hospital

Stanton County Hospital

# Birthing Hospital Winners

## Hearing Screening

Criteria	100% of babies screened, were screened within the first month of life <b>and</b> referral rates remained at or below the recommended rate for the equipment used in all four quarters of 2022.
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### Large Facilities

Olathe Health

### Medium Facilities

Menorah Medical Center

### Small Facilities

Hutchinson Regional Medical Center

Providence Medical Center

The University of Kansas Health System—Great Bend Campus

### Very Small Facilities

Cheyenne County Hospital

Clay County Medical Center

Gove County Medical Center

Mitchell County Hospital Health Systems

Morris County Hospital

Nemaha Valley Community Hospital

Scott County Hospital

Washington County Hospital

# Birthing Hospital Winners

## Critical Congenital Heart Disease (CCHD)

### Criteria

Screening status reported for 100% of infants born or is the top performing facility in their respective size category.

### Large Facilities

The University of Kansas Health Systems

### Medium Facilities

Southwest Medical Center

### Small Facilities

AdventHealth South Overland Park

Citizens Medical Center

Coffeyville Regional Medical Center

Kearny County Hospital

Labette Health

McPherson Hospital

Pratt Regional Medical Center

SCK Health

Stormont Vail Health - Flint Hills Campus

William Newton Hospital

### Very Small Facilities

Amberwell Hiawatha

Cheyenne County Hospital

Clay County Medical Center

Coffey County Hospital

Community Healthcare System Onaga

Community Memorial Healthcare

Herington Hospital, Inc.

Hospital District #1 of Rice County

Morris County Hospital

Nemaha Valley Community Hospital

Republic County Hospital

Rooks County Health Center

Smith County Memorial Hospital

Stanton County Hospital

Washington County Hospital



# Birthing Hospital Winners

## Collection Age

Criteria	Year to date average is under 30 hours.
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### Large Facilities

Salina Regional Health Center	Ascension Via Christi Hospital—St. Joseph
Stormont Vail Health	AdventHealth Shawnee Mission
The University of Kansas Health System	Wesley Healthcare

### Medium Facilities

Centura St. Catherine Hospital Dodge City	Southwest Medical Center
Ascension Via Christi Hospital—Pittsburg, Inc.	LMH Health
Irwin Army Community Hospital	Ascension Via Christi Hospital—Manhattan
Centura St. Catherine Hospital Garden City	



# Birth Hospital Winners

## Collection Age

### Small Facilities

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SCK Health	William Newton Hospital
Coffeyville Regional Medical Center	Neosho Memorial Regional Medical Center
AdventHealth Ottawa	Citizens Medical Center
Pratt Regional Medical Center	AdventHealth South Overland Park
Amberwell Atchison	Susan B. Allen Memorial Hospital
Kearny County Hospital	NMC Health
McPherson Hospital	Stormont Vail Health - Flint Hills Campus
Newman Regional Health	

### Very Small Facilities

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Stanton County Hospital	Gove County Medical Center
Smith County Memorial Hospital	Republic County Hospital
Morris County Hospital	Clay County Medical Center
Scott County Hospital	Nemaha Valley Community Hospital
Norton County Hospital	Community Healthcare System Onaga
Amberwell Hiawatha	Cheyenne County Hospital
Rooks County Health Center	Coffey County Hospital

# Birth Hospital Winners

## Transit Time

### Criteria

Year to date average is equal to or less than 36 hours.

### Large Facilities

Wesley Healthcare

### Medium Facilities

Ascension Via Christi Hospital—Manhattan

### Small Facilities

Amberwell Atchison

William Newton Hospital

### Very Small Facilities

Cheyenne County Hospital

Sabetha Community Hospital



# Birthing Hospital Winners

## Unsatisfactory Rate

Criteria	Year to date average is equal to or less than 1.3% or is the top performing facility in their respective size category.
<b>Large Facilities</b>	Olathe Health
<b>Medium Facilities</b>	HaysMed
<b>Small Facilities</b>	Neosho Memorial Regional Medical Center The University of Kansas Health System Great Bend Campus
<b>Very Small Facilities</b>	Norton County Hospital Sabetha Community Hospital

# Screening Facility Winners

## Complete Demographics

Full and complete demographic information on the blood spot collection form is critical to ensuring timely reporting and interpretation of results when complete.

Criteria	Demographic information was 100% complete for every month or is the top performing facility in their respective size category.
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Antioch Med Olathe Health Pediatrics - Olathe Medical Park

Children’s Mercy—Pediatric Care Specialists, Inc.

St. Marys Clinic

Olathe Health Family Medicine - Gardner Family

Care Affiliated Medical Services Lab, Inc.





# Screening Facility Winners

## Unsatisfactory Rate

Full and complete demographic information on the blood spot collection form is critical to ensuring timely reporting and interpretation of results when complete.

Criteria	Year to date average is equal to or less than 1.3% or is the top performing facility in their respective size category.
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- Children’s Mercy—Pediatric Care Specialists, Inc.
- Olathe Health Family Medicine - Gardner Family Care
- Salina Pediatric Care
- St. Marys Clinic

Unsatisfactory rate was based on the count of unsatisfactory specimens divided by the total number of specimens received in 2022. Specimens that had multiple rejection codes were only counted once. Rejection code 981 (specimen was wet when received) was excluded, as this is caused by shipping issues, not collector error. Average collection age and transit times were calculated using initial specimens only.



# Combined List of Winners

## Gold Winners

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Amberwell Hiawatha

Barefoot Midwifery

Cheyenne County Hospital

Clay County Medical Center

Coffeyville Regional Medical Center

Gove County Medical Center

Life Center Clinic

McPherson Hospital

Morris County Hospital

Nemaha Valley Community Hospital

Norton County Hospital

Republic County Hospital

Rooks County Health Center

Sacred Song Homebirth

Scott County Hospital

Stanton County Hospital

Sunflower Birth and Family Wellness

The University of Kansas Health System Great Bend Campus

Truly You Midwifery

Young Beginnings



# Combined List of Winners

## Silver Winners

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Amberwell Atchison	Midwife KC
Amy A Sparks, DEM	Midwife Partners in Women's Wellness, LLC
Ascension Via Christi Hospital - Manhattan	Neosho Memorial Regional Medical Center
Bethany Page Midwife	Olathe Health Family Medicine - Gardner Family Care
Born Midwifery	Pratt Regional Medical Center
Brenda Frankenfeld Midwife	Sabetha Community Hospital
Children's Mercy—Pediatric Care Specialists, Inc.	Smith County Memorial Hospital
Coffey County Hospital	Southwest Medical Center
Community Healthcare System Onaga	St. Marys Clinic
Created for Praise Midwifery	Stormont Vail Health
Dreaming Tree Women's Care	Stormont Vail Health - Flint Hills Campus
Fruitful Vine Midwives	The University of Kansas Health System
HaysMed	Washington County Hospital
Hospital District #1 of Rice County	Wesley Healthcare
Immanuel Birth Co.	William Newton Hospital
Lily Mason Midwifery	



# Partnerships

Implementing these annual awards required commitment and contribution from the entire Kansas Newborn Screening team and our partners. Thank you to all who collaborated on this project and promoted awareness of its publication!

## Kansas Midwives Alliance



kansasmidwives.com  
kansasmidwivesalliance@gmail.com  
785-979-2477

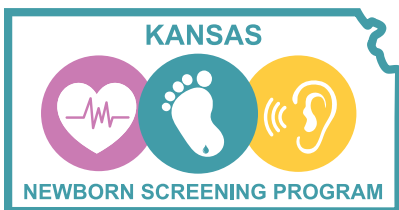
## Kansas Hospital Association



**Kansas Hospital**  
ASSOCIATION

kha-net.org  
785-233-7436

## Kansas Newborn Screening Program



kdhe.ks.gov/NewbornScreening  
kdhe.newbornscreening@ks.gov  
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## KDHE Health Chemistry Laboratory



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