Using Quality Improvement to Increase CCHD Screening Rates in Kansas

Newborn Screening and Genetic Testing Symposium

St. Louis, MO

March 3, 2016

Kansas Department of Health and Environment

Kansas Newborn Screening Program

Healthy & Sound Beginnings
HISTORY

2011-CCHD added to Core Panel

April 2013-KS NBS advisory council recommended addition

May 2013-KDHE secretary recommended Quality Initiative

Our Mission: To protect and improve the health and environment of all Kansans.
METHOD

• A dedicated staff was used to visit each birthing facility in Kansas:
  • Full training was performed if the facility was not screening
  • Facilities screening were visited to verify methods of screening.
• Tools were developed to assist in screening and draft protocols were shared from other facilities.
• Reporting methods were used to document screening and accuracy of screening.
RESULTS

• From May 2014 through July 2015, Kansas made significant progress in the implementation of CCHD screening:
  • The percentage of birthing facilities screening went from 30% to 100%.
  • The estimation of newborns screened annually increased from 78% to 100%.
  • An interim online reporting mechanism was utilized.
“At Children's Mercy Hospital over the last year, we have seen a dramatic decrease in the number of newborns presenting critically ill due to their Critical Congenital Heart Defect (CCHD). The impact of pulse oximetry on early diagnosis of CCHD is clearly saving lives.”

Stephen Kaine, MD
Children’s Mercy Hospitals
NEXT STEPS

Electronic Birth Certificate

Work with Facilities not reporting

NBS Data System links to Vital

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