

South Carolina Department of Health and Environmental Control

Promoting and Protecting the Health of the Public and the Environment

On Time / Every Time

A Partnership of Safety and Reliability

for Newborn Screening



Background

Milwaukee Journal Sentinel series on NBS: spotlight on processes that could lead to delayed identification of affected infants

Public records request sent to all state NBS programs June 2013

Articles published November 2013

SC data released in mid-January



Background

Data from 2013 revealed that 33.75% of specimens took 5 days or longer for receipt at the laboratory (range: 2.21% to 70.59%)

Distance from hospital to laboratory not an issue: Hospital with best %-126 miles from lab Hospital with worst %-117 miles from lab Hospital closest to lab (6 miles) 24.41% of specimens took 5 days or longer



Background

South Carolina Hospital Association (SCHA) and South Carolina Department of Health and Environmental Control (DHEC) entered into a formal partnership to investigate reasons why and implement solutions that could have immediate impact



On Time/ Every Time A Rapid Cycle Improvement Collaborative

Kickoff – February 10, 2014

2 Webinars – March 5 and May 1

Office Hours – March 25

Monthly data reports through Feb 2015

Quarterly data reports through 2015



South Carolina Statewide Goal

All SC Birthing Hospitals will submit 100% of their newborn screening tests to the SC DHEC Bureau of Laboratories within 24 hours of collection (within 120 days from February 10, 2014 Kickoff).



Challenge to Hospitals

Create improvement team

- Identify Newborn Screening Point of Contact and email to: <u>NewbornScreening@dhec.sc.gov</u>
- Review and examine all steps to identify specific gaps in the screening process
- Monitor progress through monthly data reports

Seek assistance as necessary



NBS Program Changes

DHEC NBS staff accomplished the following major program changes within 30 days of the data release:

Modified urgent abnormal test reporting protocol for Saturdays/holidays

Revised Official Departmental Instructions that serve as legal underpinning for hospital/medical provider responsibilities for NBS

Implemented new supplemental data system to allow documentation of "postmark" for each initial specimen



NBS Program Changes

Further NBS program refinements included: 24/7 availability for courier drop off Improved informational signage at lab NBS dedicated email monitored 6 days/week Phased implementation of Saturday/holiday services

-2 new lab FTE's approved/hired

-1 new follow-up FTE approved (interviews completed)



Saturday/Holiday Lab and Follow-up Services

Limited lab and follow-up services began March 1

Full day activities began May 3 with modifications to normal lab and follow-up services based upon recommendations from specialty medical providers

Follow-up able to utilize Epi on-call to assist if required

Occurred before new lab or follow-up staff on board



Hospital Improvement to Date

Average % Specimens that are postmarked within 24 hours of collection (*Saturday collection excluded*)

February 2014:	55.68%
March 2014:	72.36%
April 2014:	77.39%
May 2014:	79.98%
June 2014:	80.26%
July 2014:	83.67%



Hospital Improvement to Date

- As of July 2014, 10.02 % specimens took 5 days or longer for receipt at the laboratory
- Hospital with best initial %- 0% now 5 days or longer
 - Hospital with worst initial %- 6.33% now 5 days or longer
 - Hospital closest to lab- 0.78% now 5 days or longer



Future Plans

- Continue monthly data reports
- Implement new data system
- Seek different avenues to recruit mission critical positions (Lab Director-Chemistry/NBS Division)
- Utilize new NBS Follow-up Coordinator to work directly with hospital staff



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