Connecting Community Providers, School Nurses and Parents to a School Based Screening EMR

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A separate not-for-profit organization founded and funded by First Hand

Healthe Kids Institute mission: To provide a foundation for lifetime health

Programs:
- Healthe Kids Screenings
- STAT!
- St. Sabina Wellness Program

The Healthe Kids Institute aims to improve the health of populations.
Healthe Kids Screenings

• **Vision**

To establish a replicable, community-based well-child health screening model that increases the identification and resolution of preventable healthcare issues affecting children and youth.

• **Mission**

Provide age-appropriate well-child health screenings conducted by qualified, licensed healthcare professionals in non-traditional healthcare settings.
Design

- $2.8M investment for 5 years
- School based health screenings—we go to the schools
  - Began with screenings in schools March 2007
- All aspects of screenings provided for school, from permission forms to clinicians
  - Create an electronic medical record for each child participating—Cerner’s *PowerWorks*
- Screenings are FREE
- Requirement for participation
  - Signed permission form
Program goals

• Increase the number of children receiving well-child screenings
• Establish a secure, person-centric longitudinal electronic health record
• Analyze and report aggregate data trends
• Use data captured to influence and/or modify health behaviors
• Ensure follow-up is completed on referrals identified
• Demonstrate empirical evidence of the efficiency and efficacy of the Healthe Kids model and replicate model
Screenings

- Height/weight
- Vital signs
  - Heart rate
  - Breathe rate
  - Temperature
  - Blood pressure
- Vision
- Hearing
- Head-to-toe screening
  - With the clothes on
  - No genital exam
School districts participating

- West Platte School District—1 schools
- Platte County School District—3 schools
- Catholic School—1 school
- Park Hill School District—2 schools
- North Kansas City School District—8 schools
- Center School District—3 schools
- Grandview School District—5 schools
- Belton School District—5 schools
- Liberty School District—2 schools
- Platte County Back to School Fair
- Clay County Back to School Fair
- Independence School District—7 schools
- Kansas City Charter Schools—4 schools
- Lee’s Summit School District—3 schools
Healthe Kids Overview (March 2007-July 2011)

- **19,454** screenings
- **13,552** children
- **$1,347,518** in free screenings provided
- **311** days
- **1932.75** hours

**Value to the community**

- **19,454** screenings
- **13,552** children
- **$1,347,518** in free screenings provided
- **311** days
- **1932.75** hours

**Overall Participation Rate**

- **40%**

**Community Impact**

- **10.6%** of children in participating districts screened through HK
- **7.0%** of all children in Kansas City screened through HK

**Referrals**

- **9,389** (48.3%)

**FH Dollars Granted**

- **$9,085**
  - 14 Vision
  - 5 Dental
  - 2 Office visits
  - 1 Hearing aid
  - 1 Gas card

**Overall Participation Rate**

- **10.6%** of children in participating districts screened through HK
- **7.0%** of all children in Kansas City screened through HK

**Referrals**

- **9,389** (48.3%)

**FH Dollars Granted**

- **$9,085**
  - 14 Vision
  - 5 Dental
  - 2 Office visits
  - 1 Hearing aid
  - 1 Gas card
Screening:
Electronic Health Record
Overall Referrals Identified

Total Referrals Identified YTD: 9,389 (48.3%)
What does ‘Other’ include?

- Blood Pressure—3.5%
- Heart murmur—3.1%
- Enlarged Lymph Nodes—2.0%
- Enlarged Tonsils—1.1%
- Heart rate—1.0%
- Abnormal Ear Exam—0.8%
- Curvature of Spine—0.7%
- Sore Throat—0.7%
- Lead Screening—0.2%
- Temperature—0.1%
Referral notification process

1. **Child Finishes Screening**
   - Parent Receives Letter
   - School Nurse Receives Letter
   - Referral Fax to Provider
   - School Nurse or Provider Document Follow-up in Record

2. **FUTURE:** Parents Email Follow-up to Nurse Via IQHealth

   Parent Receives Letter

2. **School Nurse Receives Letter**

2. **Referral Fax to Provider**
Overall Referral Completion Rate

*Overall referral completion rate for Fall 2010 schools: 81%*
*Overall referral completion rate for Spring 2011 schools: 31%*
(Spring schools have until Dec. 23, 2011 for referral completion)
Overall Breakdown of Referrals Completed

- **2010-2011 YTD**
  - Under Provider Care: 27%
  - Passed School Rescreen: 26%
  - Parent Refused: 14%
  - Issues Resolved: 12%
  - Discussed BMI with parent: 9%
  - Provider Rescreen Negative: 5%

- **2009-2010**
  - Weight Monitoring per Parent: 84%
  - Moved: 66%
  - Referred to Specialist: 4%

- **2008-2009**
  - Weight Monitoring per Parent: 5%
Success stories

- Female student with enlarged thyroid:
  - Referred to a physician and was started on treatment, resulting in weight loss and improved mood.

- Overweight female student with a BMI of 33.5:
  - Diagnosed with endocrine disorder after seeing her physician.

- Male student who had learned how to pass the eye screening:
  - Healthe Kids found his left eye to be 20/100. An ophthalmologist later confirmed the child was legally blind in that eye.

- Male student having trouble hearing:
  - Found to have a piece of paper and a small rock in his ear that were not normally visible.

- Female student with a heart murmur
  - Condition went undetected until a Healthe Kids screening. Enlarged heart valves identified and surgery scheduled.
Satisfaction

Schools

Parents

100% surveys returned

561 (11.0%) surveys returned
Nurse testimonials

• “Anything Healthe Kids finds during screenings is one more step toward helping a student in need. This is a wonderful program for the schools.”
  - Kerri Smith, LPN, VN, Thomas Hart Benton Elementary

• “We are definitely believers in the invaluable Health Kids program.”
  - Amy Flood, RN, BSN, Lillian Schumacher Elementary
• “The program is needed. Our parents need all the help/education they can receive, and Healthe Kids aids in providing that help. The parents that I have spoken with really appreciate the help.”
  
  *Floyd Wilson, Director of Student Services*

• “I realize with budget being cut in the corporate world that this may be an area that Cerner begins to look at for potential cuts. That being said, you can't put a price tag on the lasting difference a two day visit from Healthe Kids makes on being proactive in our students' overall health. I hope this program will continue as we are beginning to see an increase in students needing medical attention due to parents lacking the funds to take them to the doctor.”

  *Dr. Devin Doll, principal*
Parent Testimonials

• “This program was **convenient** to us due to our work schedule and **we are satisfied**.” 3rd grade parent

• “Last year, my child was identified as having a **slight heart murmur**. I did not know about this until Healthe Kids **screened her** and notified me of the problem. I took her to a specialist who confirmed it was harmless, but that was something that could have turned out to be very serious. **It would have never been brought to my attention if not for Healthe Kids screening.**” 2nd grade parent

• “What a **wonderful idea** (Healthe Kids) keep up the good work.” 2nd grade parent
Contact information

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