



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

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

- **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**

- **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.

- **\$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

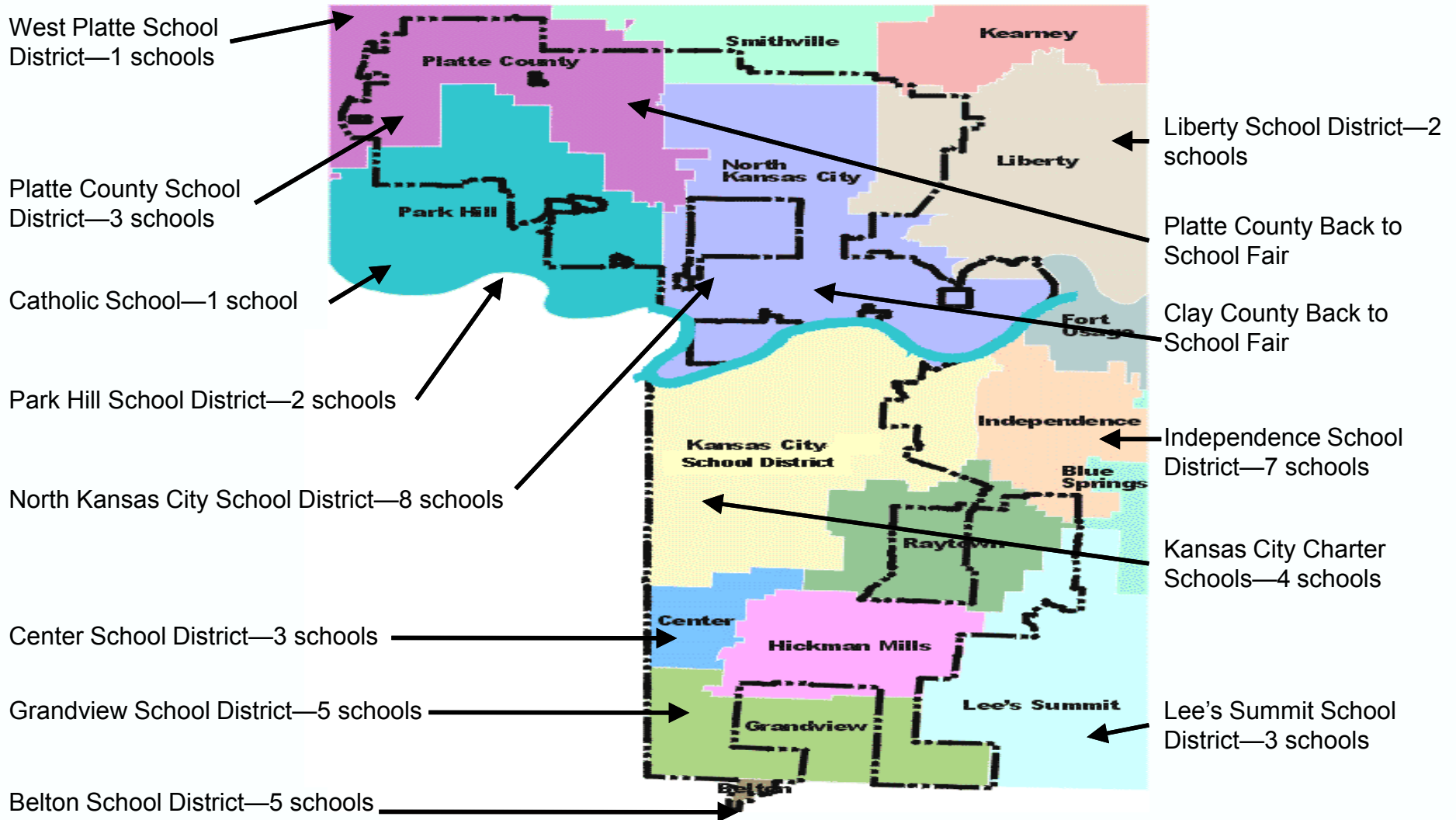
- **Increase the number of children receiving well-child screenings**
- **Establish a secure, person-centric longitudinal electronic health record**
- **Analyze and report aggregate data trends**
- **Use data captured to influence and/or modify health behaviors**
- **Ensure follow-up is completed on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



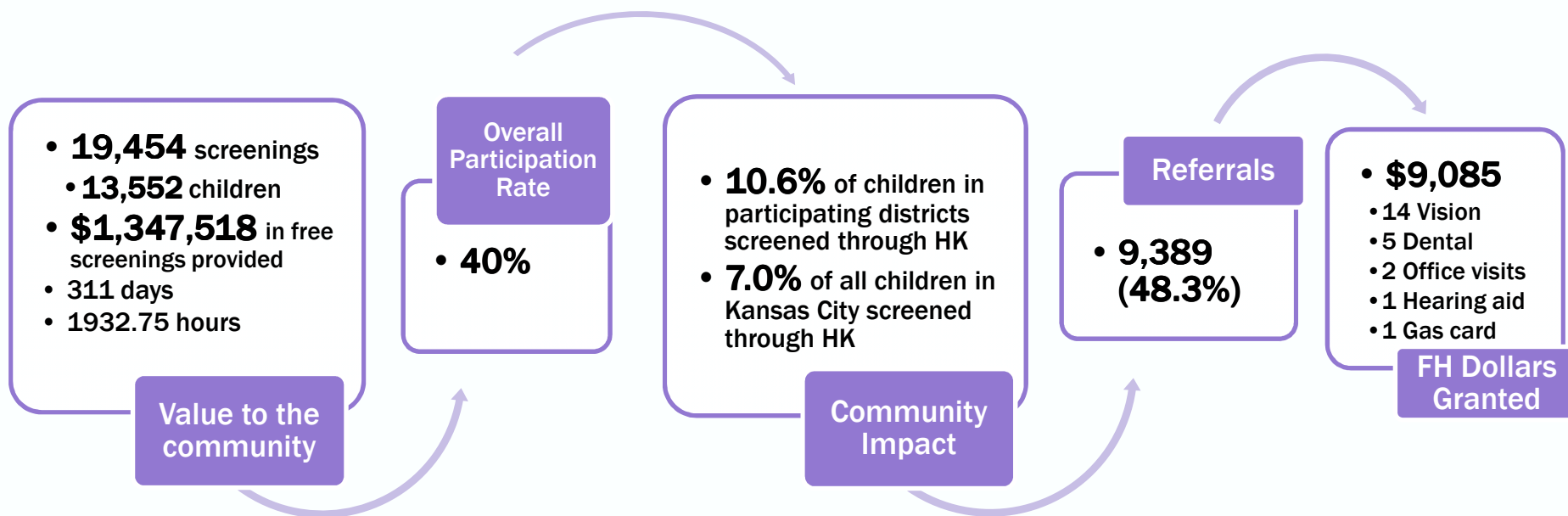


- **Height/weight**
- **Vital signs**
  - ✧ Heart rate
  - ✧ Breathe rate
  - ✧ Temperature
  - ✧ Blood pressure
- **Vision**
- **Hearing**
- **Head-to-toe screening**
  - ✧ With the clothes on
  - ✧ No genital exam

# School districts participating



# Healthe Kids Overview (March 2007-July 2011)





# Screening: Electronic Health Record

Health Screening (State of MD) - Evans, Megan

\*Performed on: 06/14/2011 09:49 CDT By: Control3, Brie

### Health Screening

Unable To Complete Screening Due To:

- Bites
- Absent
- No longer in school

Nonmenstrual Status:

- Menarcheal
- Postmenopausal

LMP:

Gravida:  Para Full Term:  Para Premature:  Abortions:  Living Children:

Oral Temp:  DegF Tympanic Temp:  DegF Temporal Temp:  DegF

Peripheral Pulse Rate:  bpm Respiratory Rate:  1/min

Right Arm Systolic / Diastolic BP:  /

Left Arm Systolic / Diastolic BP:  /

Height/Length:  in Weight:  lb

Waist Circumference:  cm BMI:

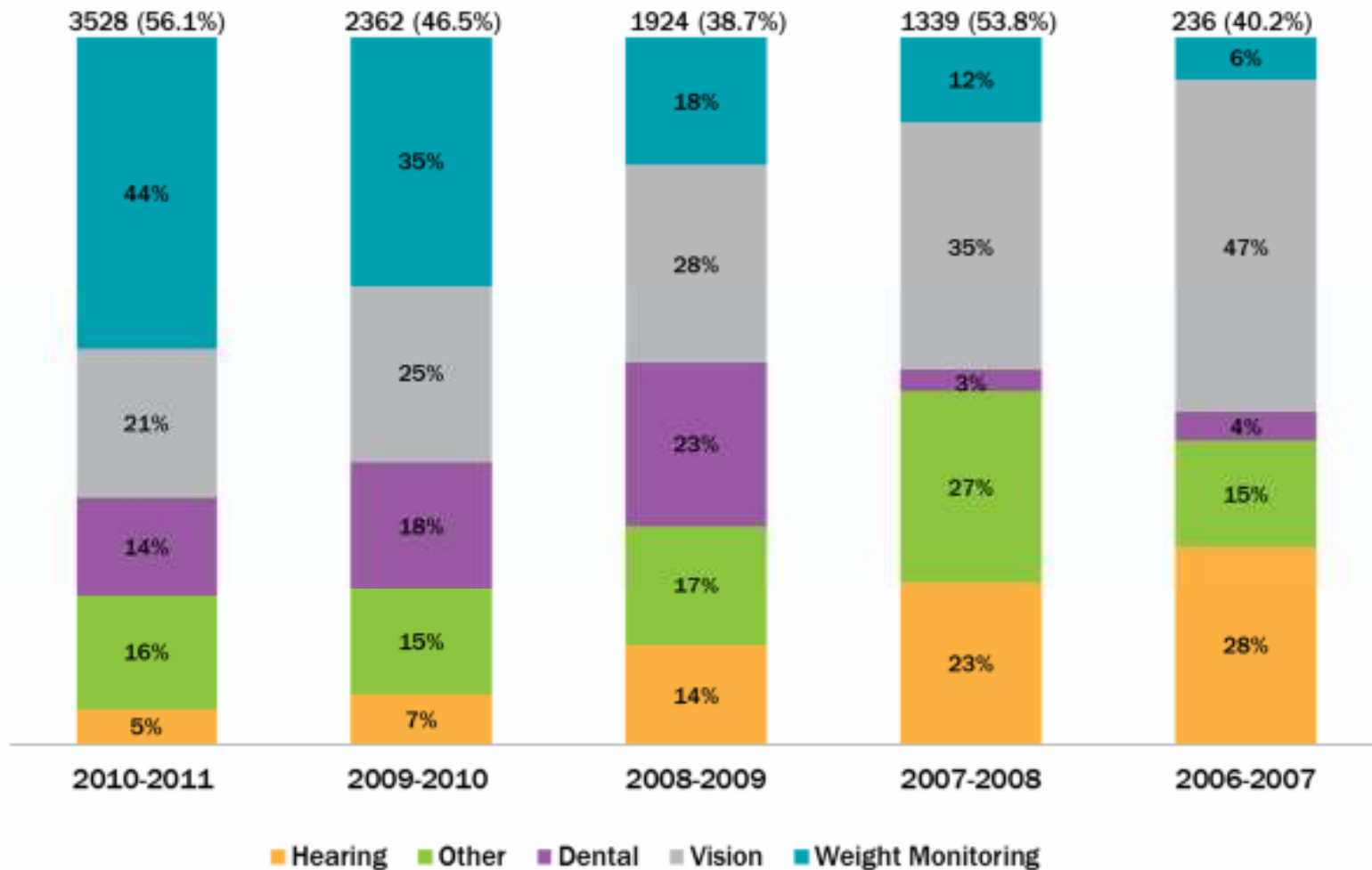
BMI Percentile:

Comments:

In Progress

6/14/2011 6:47 AM

# Overall Referrals Identified



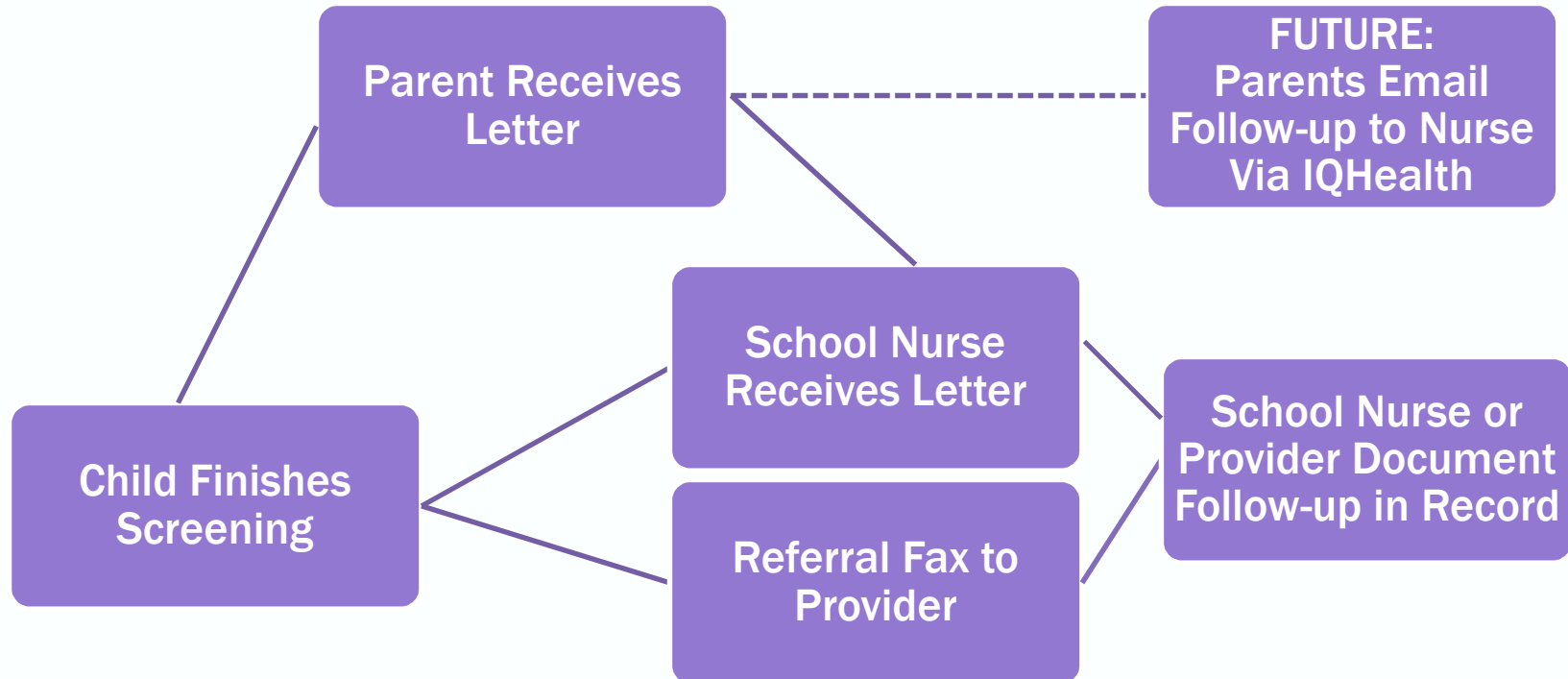
Total Referrals Identified YTD: 9,389 (48.3%)

# What does 'Other' include?

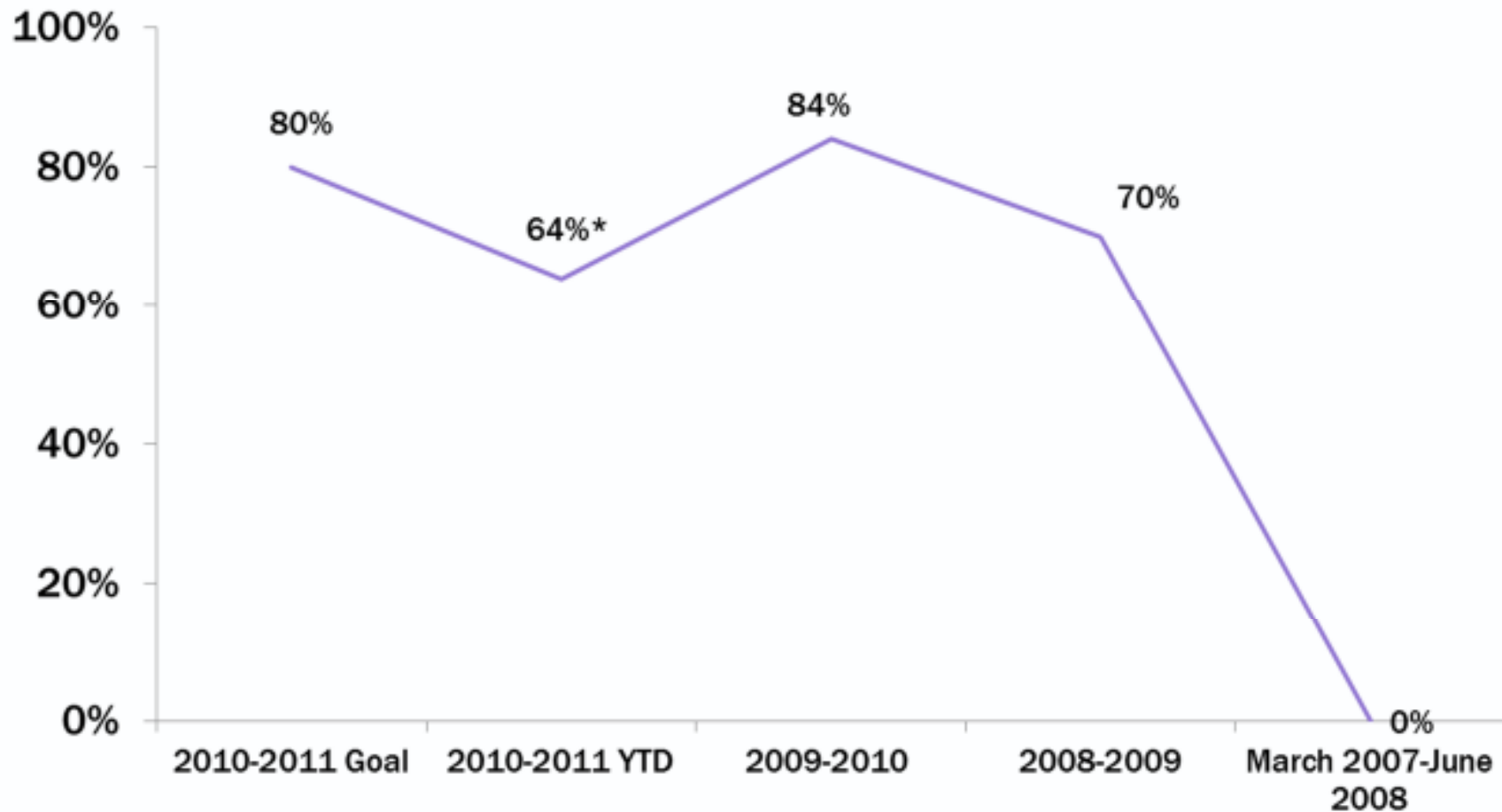
- **Blood Pressure—3.5%**
- **Heart murmur—3.1%**
- **Enlarged Lymph Nodes—2.0%**
- **Enlarged Tonsils—1.1%**
- **Heart rate—1.0%**
- **Abnormal Ear Exam—0.8%**
- **Curvature of Spine—0.7%**
- **Sore Throat—0.7%**
- **Lead Screening—0.2%**
- **Temperature—0.1%**



# Referral notification process



# 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)

# Referral completion: Electronic Health Record

Healthe Referral Follow-up Report - Evans, Megan

Performed on: 06/14/2011 0852 CDT By: Control3, Brie

### Healthe Referral Follow-up Report

Referral Issue:

The patient was seen in my office for the Healthe Kids referral(s), during the exam it was noted.

- Referral issue resolved
- Under provider care
- Passed school rescreen
- Passed provider rescreen
- No longer at school
- Parent refused follow-up
- Discussed BMI with parent
- W/ monitoring per parent

Please Choose 1

In Progress: 6:32 AM 6/14/2011

# Overall Breakdown of Referrals Completed



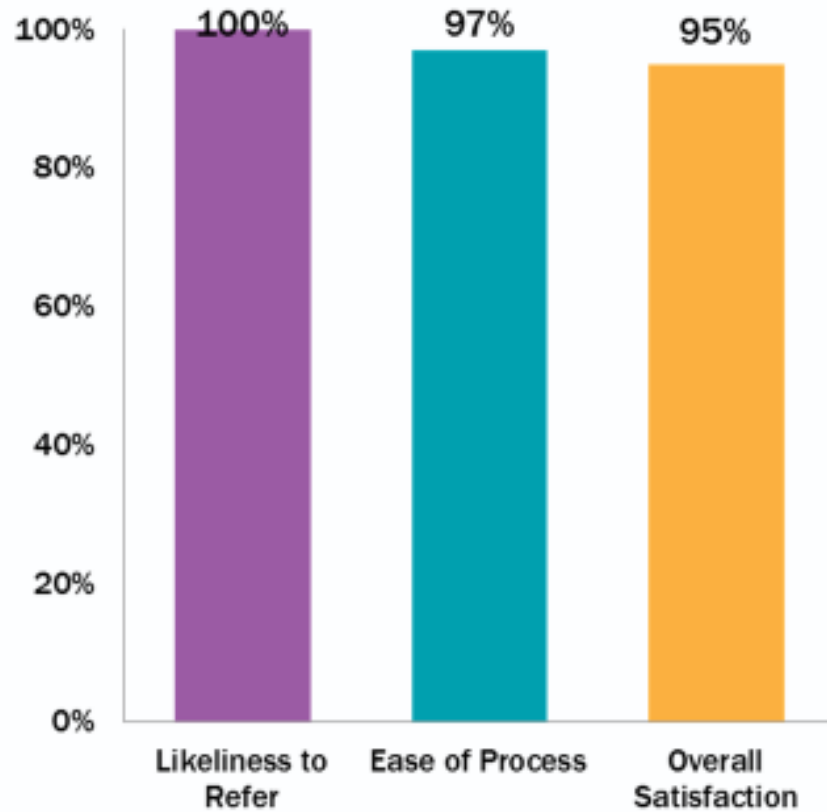
- **Female student with enlarged thyroid:**
  - ✧ Referred to a physician and was started on treatment, resulting in weight loss and improved mood.
- **Overweight female student with a BMI of 33.5:**
  - ✧ Diagnosed with endocrine disorder after seeing her physician.
- **Male student who had learned 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.



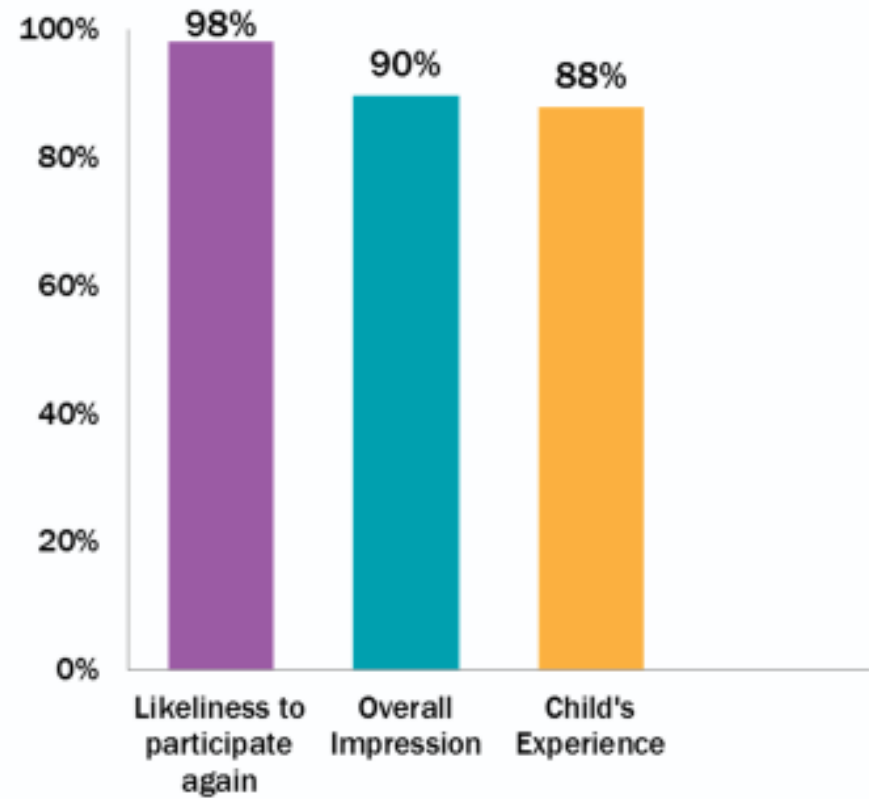
# Satisfaction

## Schools

## Parents



100% surveys returned



561 (11.0%) surveys returned

- **“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 Healthe 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*

- “This program was **convenient** to us due to our work schedule and **we are satisfied.**” 3<sup>rd</sup> 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.**” 2<sup>nd</sup> grade parent
- “What a **wonderful idea** (Healthe Kids) keep up the good work.” 2<sup>nd</sup> grade parent

- **Healthe Kids Institute**
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