





# **Data Sharing Partnerships to Promote Lead Screening and Follow-up Through an Integrated Child Health Information System**

**November 1, 2017**

**Nashua, NH**

# Session Overview

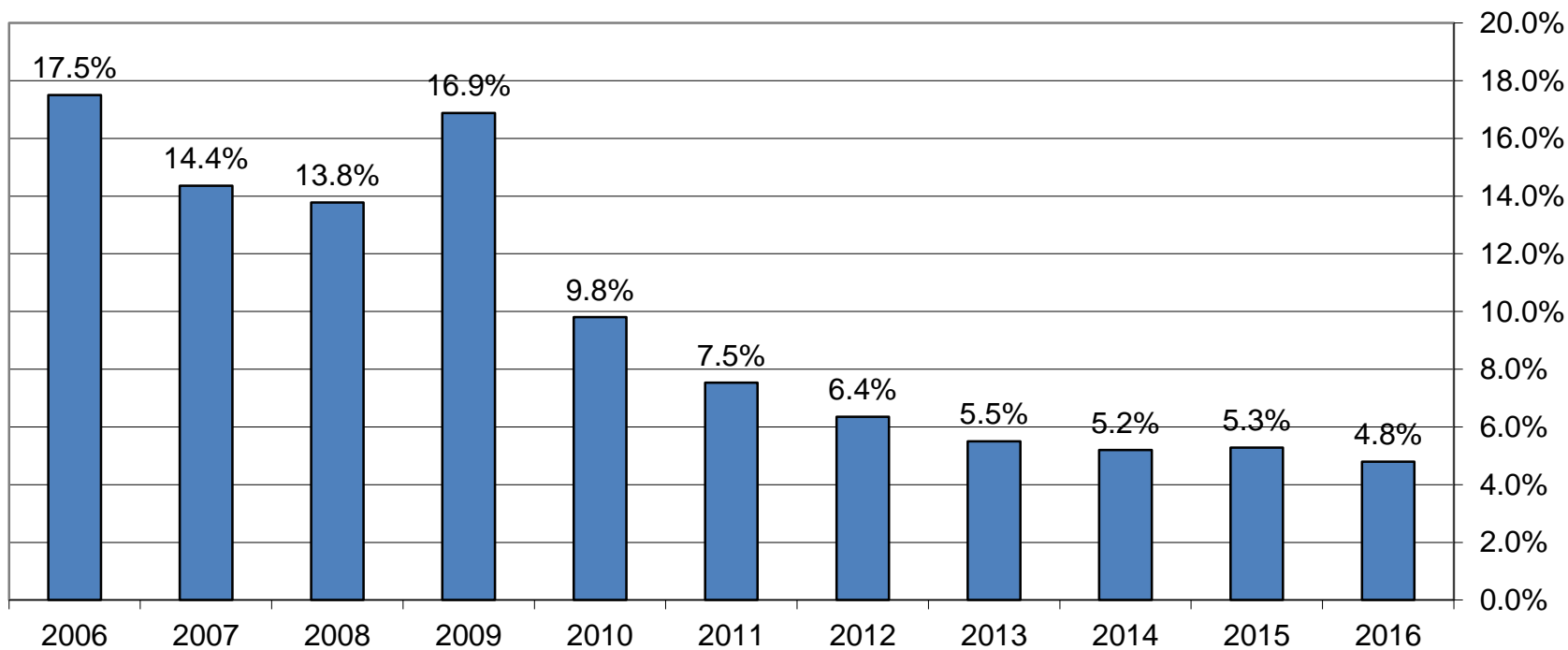


- ☆☆☆ Brief review of RI lead data
- ☆☆☆ Overview of KIDSNET, Rhode Island's integrated child health information
- ☆☆☆ Describe how KIDSNET is used by community partners to promote lead screening and follow-up
- ☆☆☆ Discussion of partnerships with other state agencies



# RI Elevated Lead Prevalence Rates

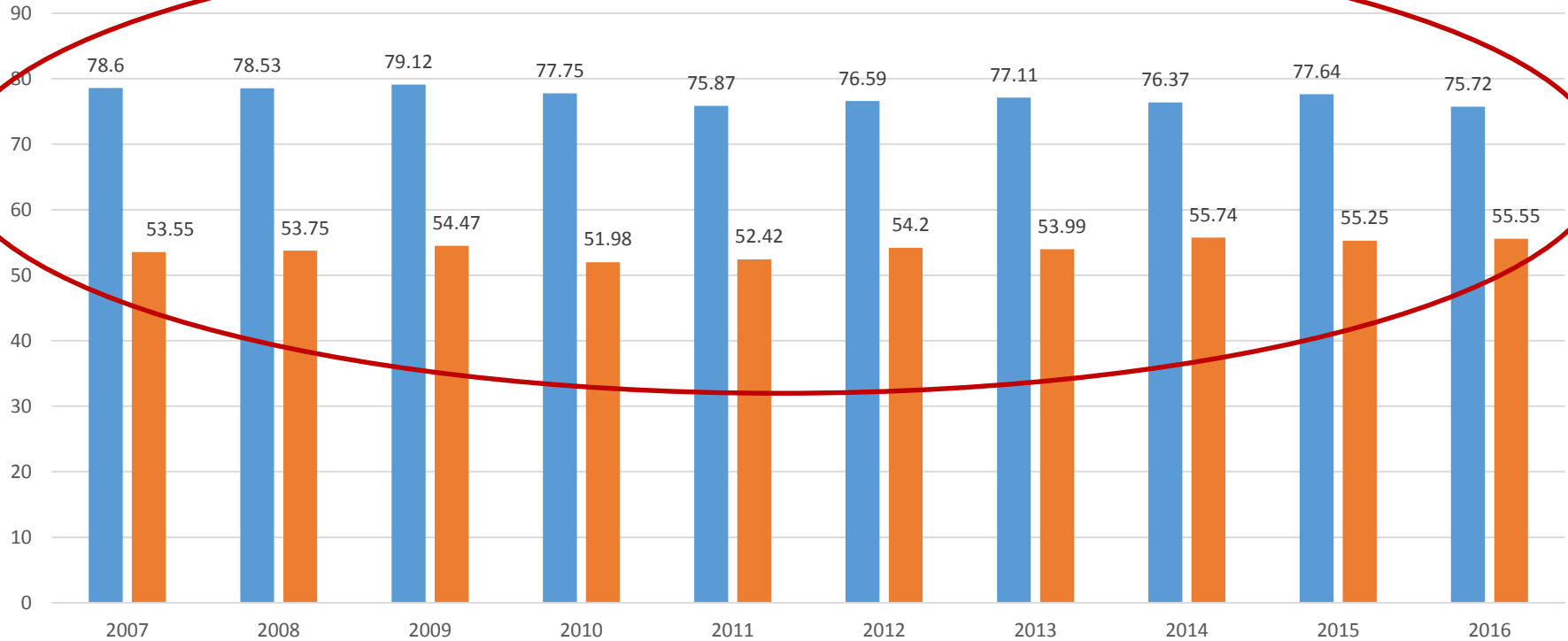
RI Prevalence  $\geq 5$  ug/dL for Children aged  $\leq 72$  months from 2006 to 2016





# RI Lead Screening Rates

Percent of Children Statewide Screened for Lead in Compliance with Guidelines, 2007-2016



■ At Least one Lead Screening by 18 Months

■ At Least two Lead Screenings, a minimum of 12 months apart, by 36 months

# What is KIDSNET?



- ✿✿✿ A Public Health Program –  
not an electronic medical record
- ✿✿✿ Integrated Child Health Information System  
for maternal and child health programs
- ✿✿✿ Facilitates the collection and appropriate  
sharing of health data by authorized users  
for the provision of timely and appropriate  
preventive health services and follow up

# KIDSNET Vision and Mission



\*\*\***Vision:** All RI children receive appropriate and timely preventive healthcare as a result of access to and utilization of comprehensive data on preventive health services by authorized users.

\*\*\***Mission:** KIDSNET facilitates the collection and appropriate sharing of health data with healthcare providers, parents, MCH programs and other child service providers for the provision of timely and appropriate preventive health services and follow up.

# KIDSNET Partner Programs



## Universal:

- \*\*\* Newborn Developmental Risk
- \*\*\* Newborn Bloodspot Screening
- \*\*\* Newborn Hearing Assessment
- \*\*\* Immunization
- \*\*\* Childhood Lead Poisoning
- \*\*\* Vital Records
- \*\*\* Child Outreach

## Targeted:

- \*\*\* WIC
- \*\*\* Early Intervention
- \*\*\* Home Visiting
- \*\*\* Birth Defects
- \*\*\* Cedar (Medicaid care coordination)
- \*\*\* Healthy Weight
- \*\*\* Asthma
- \*\*\* Early Childhood Developmental Screening
- \*\*\* Foster Care
- \*\*\* Head Start



# KIDSNET Users



☆☆ Medical Care Providers

☆☆ Maternal & Child Health Programs

☆☆ Head Start and Child Care Agencies

☆☆ Schools/Child Outreach

☆☆ Home Visitors

☆☆ Certified Lead Centers

☆☆ Audiologists

☆☆ Managed Care Organizations

☆☆ Early Intervention

☆☆ WIC

☆☆ CEDARR Centers

# Who can access what data?



- ☆☆☆ Access is granted on a need to know basis
- ☆☆☆ Programs, not KIDSNET, determine who can access their program data
- ☆☆☆ Parents are informed at several time points and may “opt out” of display of their child’s information
- ☆☆☆ Display is blocked if parental notification letter is returned as undeliverable
- ☆☆☆ Signed consent is not obtained except at the program levels where the program is required or prefers to get signed consent

# KIDSNET Data Capture



- ☆☆ Births from January 1, 1997 and later
- ☆☆ Records initiated at birth or first contact with KIDSNET Program
- ☆☆ Hybrid data model (warehouse vs. complete)
  - ☆☆ Lead data are warehoused
  - ☆☆ Files uploaded to KIDSNET from Lead Database
- ☆☆ Records are updated after services are received from direct data entry or electronic file submission from programs and providers

# What about HIPAA?



- The Privacy Rule expressly permits public health information (PHI) to be shared for specified public health purposes..... Further, the Privacy Rule permits covered entities to make disclosures that are required by other laws, including laws that require disclosures for public health purposes.



- The Confidentiality of Health Care Communications and Information Act permits release or transfer of confidential health care information without consent “between and among qualified personnel and health care providers within the health care system for purposes of coordination of health care services....”



# KIDSNET Lead Data Uses



- \*\*\* KIDSNET can be used to look at information for an individual child
- \*\*\* KIDSNET can be used to look at subpopulations of children on reports
  - \*\*\* Children never lead screened
  - \*\*\* Children overdue for 2nd lead screening
- \*\*\* KIDSNET can generate files to be used by partners to match their lead screening records to focus outreach
- \*\*\* KIDSNET Lead data can help prioritize services

### Blood Lead Screening Information

#### Lead Poisoning

Test Date	Physician Name	Sample Type	EP	PbB	Date Updated
09/17/2014	JANE SMITH	V		013	05/14/2015
06/18/2014	JANE SMITH	V		013	05/14/2015
10/16/2013	JANE SMITH	V		021	05/14/2015
08/21/2013	SMITH, MD, JANE	V		026	05/14/2015
03/18/2013	TEST, CLIENT	V		028	05/14/2015
01/16/2013	JANE SMITH	V		027	05/14/2015
11/21/2012	JANE SMITH	V		032	05/14/2015
10/17/2012	JANE SMITH	V		030	05/14/2015
09/19/2012	JANE SMITH	V		025	05/14/2015
09/07/2012		V		050	05/14/2015
08/30/2012		V		067	05/14/2015
08/24/2012	SMITH, DORY	V		068	05/14/2015
12/29/2011	SMITH, DORY	V		009	05/14/2015
10/07/2011	SMITH, DORY	F		013	05/14/2015

### Environmental Lead Inspection Information

#### Asthma

Inspection Date:	06/16/2013	Close Date:	12/09/2013
Inspection Result:	NO LEAD PAINT FOUND/LEAD PAINT PRESENT		
Status:	CLOSED, ABATEMENT COMPLETE		
Inspection Address:	3 CAPITOL HILL PROVIDENCE , RI 02904	Apt:	
Date Updated:	05/14/2015		

#### Developmental Screening

#### Child Outreach

#### Newborn Diagnostic Summary

#### Cedar

#### Head Start

Inspection Date:	03/21/2013	Close Date:	12/09/2013
Inspection Result:	LEAD PAINT HAZARD - EXTERIOR ONLY		
Status:	CLOSED, ABATEMENT COMPLETE		
Inspection Address:	3 CAPITOL HILL PROVIDENCE , RI 02904	Apt:	
Date Updated:	05/14/2015		

#### User Management

#### User Profile

#### Practice Reports

#### Forms & Resources

#### KIDSNET Help

#### Logout

#### SSV Practice Menu

Inspection Date:	11/15/2012	Close Date:	
Inspection Result:	LEAD PAINT HAZARD - BOTH INTERIOR AND EXTERIOR		
Status:	UNKNOWN		
Inspection Address:	3 CAPITOL HILL PROVIDENCE , RI 02904	Apt:	
Date Updated:	05/14/2015		
Inspection Date:	09/28/2012	Close Date:	
Inspection Result:	LEAD PAINT HAZARD - BOTH INTERIOR AND EXTERIOR		
Status:	OPEN		
Inspection Address:	3 CAPITOL HILL PROVIDENCE , RI 02904	Apt:	

# KIDSNET Partners with Lead Reports



## \*\*\* Primary care providers

- \*\*\* Linked to practice when immunization is submitted

## \*\*\* Other partners that submit enrollment data

- \*\*\* Home Visiting

- \*\*\* Early Intervention

- \*\*\* WIC

- \*\*\* Cedar Centers (Medicaid Special Needs Care Coordination)

- \*\*\* Head Start





Welcome to KIDSNET



## Practice Reports

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#### **Available Reports**

1. [Patient List Report](#)
2. [Developmental Screening - Due Now Report](#)
3. [Lead Screening Report - Children Without a Lead Screening](#)
4. [Lead Screening Report - Children Due for Second Lead Screening](#)
5. [Lead Report - Children with results  \$\geq\$  5ug/dl](#)
6. [School Eligible Report](#)
7. [Immunization Report](#)
8. [Newborn Hearing Screening Report](#)
9. [Newborn Summary Report](#)
10. [Immunizations Submitted to KIDSNET By Other Providers](#)
11. [Immunization Coverage Report](#)

#### **Seasonal Reports**

[Seasonal Influenza - Children Due For Shot #1 Report](#)

[Seasonal Influenza - Children Due Now or Due Soon For Shot #2 Report](#)



Welcome to KIDSNET



## Head Start Reports - Lead Screening

[Generate Report](#)

*A list of patients in your practice.*

### **Children Due for Second Lead Screening**

*This report generates a list of patients in your practice who have been screened for lead once, with a result  $<5$  mcg/dL, who are due for a second blood lead screening.*

- Select Age Range:
- Less than 24 months
  - 24-28 Months Old
  - 29-35 Months Old
  - 36-72 Months Old

For more information or to provide feedback [eMail KIDSNET](#)



**HEALTH**  
Rhode Island Department of Health

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## Practice Reports - Lead Screening

Report Criteria: **Monday, May 16, 2005 11:17:33 AM**

Provider Id: **9999**

Practice: **DEMO PEDIATRICS**

**Patients 15 - 36 months**

### LEAD SCREENING REPORT - CHILDREN WITHOUT LEAD SCENING

Child Name	Date Of Birth	KIDSNET Id	Not a Patient	
			Transferred	Moved Out of State
SANDY N BOTTOMS	01/09/2003	251592		
AMANDA JONES	05/07/2003	272925		
ALEX LETTY	02/08/2004	272926		
JOHN SMITH	01/01/2004	272924		



## Head Start Reports - Children with results $\geq 5$ ug/dl

Report Criteria: **Thursday, October 19, 2017 03:34:03 PM**

Agency Id: **0**

Agency: **XYZ HEADSTART AGENCY**

**Report limited to children less than 6 years of age.**

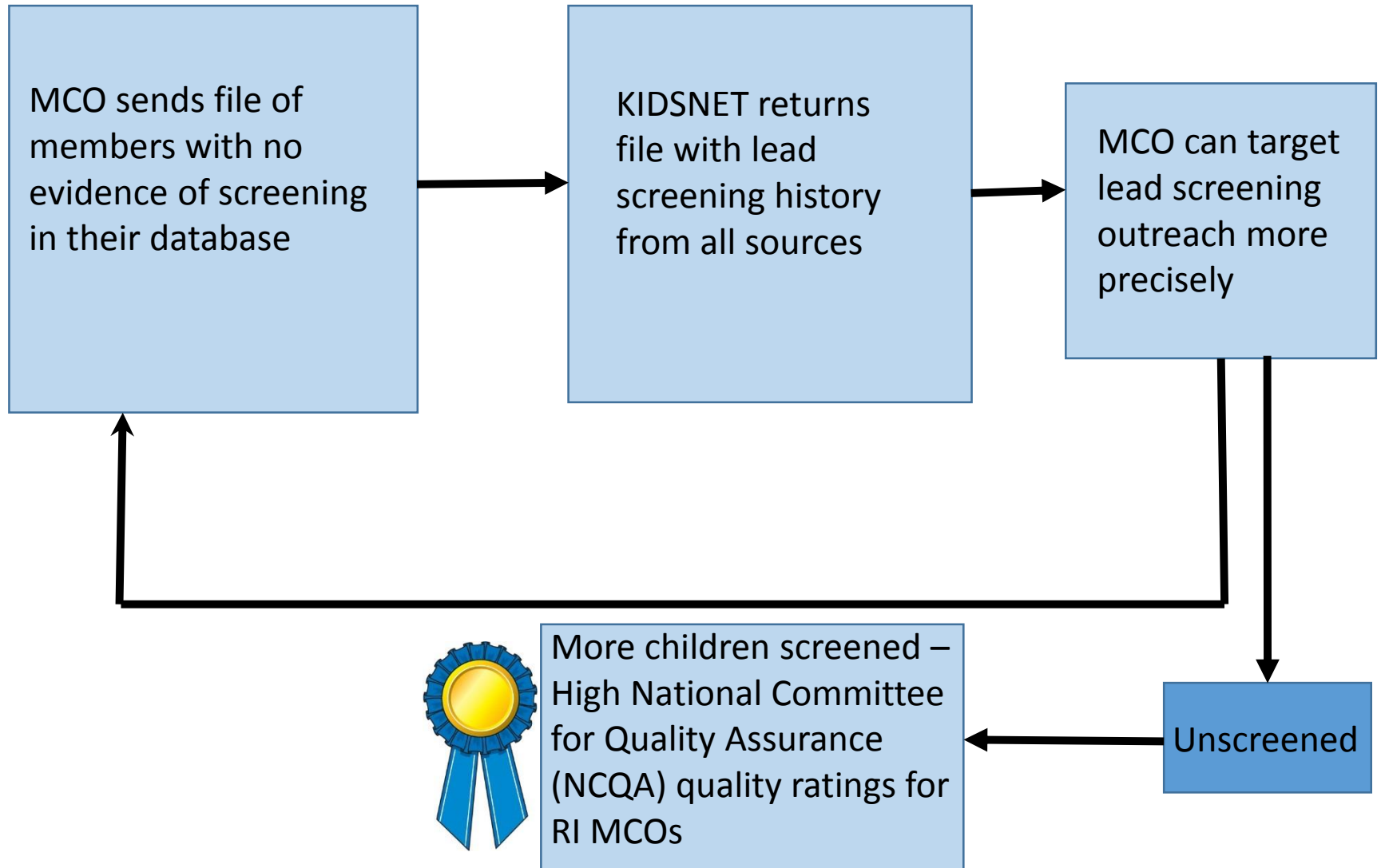
### LEAD REPORT - MOST RECENT LEAD TEST > 5 ug/dl

Child Name	Date Of Birth	KIDSNET Id	Most Recent Test Date	Lead Level	Test Type
* 1. HOME VISIT M TEST	02/15/2012	7557817	01/30/2015	013	V

---

Report Run: **Thursday, October 19, 2017 03:34:03 PM**

# Partnership with MCOs



# Partnership with Dept. of Education Child Outreach



- ☆☆☆ School districts provide developmental screening for all 3-5 year old children
  - ☆☆☆ Hearing
  - ☆☆☆ Vision
  - ☆☆☆ Speech-language
  - ☆☆☆ Social Emotional
  - ☆☆☆ General Cognitive
- ☆☆☆ Child Outreach database was built into KIDSNET
- ☆☆☆ High risk, including lead  $>5 \mu\text{g}/\text{dL}$  can be prioritized



### Navigation Menu

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- ▶ Child Outreach Reports
- ▶ Logoff

## Child Outreach Screening Dashboard

user login: **eamoreco**      user district:

### Screening Status Filter

School District:  ▼

Zip Code:

### Screening Status 2017 - 2018

	District Total	Submitted	Started, Not Yet Submitted	Not Yet Started	Submitted, Awaiting Spec Ed Referral Outcome	Non-Residents Started, Not Yet Submitted
K	1355	<a href="#">2</a>	0	<a href="#">1353</a>	<a href="#">1</a>	0
K - 1	957	<a href="#">18</a>	<a href="#">3</a>	<a href="#">936</a>	<a href="#">3</a>	<a href="#">1</a>
K - 2	1658	<a href="#">22</a>	<a href="#">5</a>	<a href="#">1631</a>	<a href="#">1</a>	<a href="#">1</a>
K - 3	1357	<a href="#">3</a>	<a href="#">2</a>	<a href="#">1352</a>	<a href="#">1</a>	0
ALL	5327	45	10	5272	6	2

### Child List Filter

\*Partial last and/or first names may be used

Last Name:

First Name:

DCYF

Age 3

Lead Level

## Child Outreach Screening Dashboard

user login: **eamoreco**

user district:

### Screening Status Filter

School District:  ▼

Zip Code:

### Screening Status 2017 - 2018

	District Total	Submitted	Started, Not Yet Submitted	Not Yet Started	Submitted, Awaiting Spec Ed Referral Outcome	Non-Residents Started, Not Yet Submitted
K	2	0	0	<u>2</u>	0	0
K - 1	8	<u>2</u>	<u>1</u>	<u>5</u>	0	0
K - 2	7	0	<u>1</u>	<u>6</u>	0	0
K - 3	1	0	0	<u>1</u>	0	0
ALL	18	2	2	14	0	0

### Child List Filter

\* Partial last and/or first names may be used

Last Name: \*

First Name: \*

DCYF

Age 3

Lead Level

\* Mouse-over icons (if present) for more information

### K - 2 Not Yet Started Child List

KIDSNET Child ID ↕	Child Last Name ↕	Child First Name Middle Initial ↕	Date of Birth ↕	Zip ↕	Indicators
<a href="#">7549662</a>	EAGLE	BALD	09/19/2013	22222	<b>Pb</b>
<a href="#">7543667</a>	TANAGER	SCARLETT	09/26/2013	22222	<b>Pb</b>
<a href="#">7521814</a>	WINDOW	ORIE, L	04/03/2014	02807	<b>Pb</b>



# Partnership with Dept. of Children, Youth and Families



- ☆☆☆ DCYF has on-line access to KIDSNET
- ☆☆☆ Developed a KIDSNET user guide
  - ☆☆☆ Instructions to provide lead screening page printout to foster parent and new PCP
  - ☆☆☆ Describes elevated lead and gives contact information for state lead poisoning prevention program
- ☆☆☆ Developed on-line training for DCYF

### Search

Enter KIDSNET ID:  [LookUp](#)

### [Child Information](#) -04/18/2016

Name: **NEMO X BEST** KIDSNET ID: **7345193**  
Date Of Birth: **09/14/2010** Age: **5y 7m** Gender: **MALE**  
KIDSNET Status: **ACTIVE** PCP: **TEST PEDIATRIC PRACTICE**  
Parent/Guardian: **STU PICKLES** Date of birth: **01/01/1970**

### Blood Lead Screening Information

Test Date	Physician Name	Sample Type	EP	PbB	Date Updated
09/17/2014	JANE SMITH	V		013	05/14/2015
06/18/2014	JANE SMITH	V		013	05/14/2015
10/16/2013	JANE SMITH	V		021	05/14/2015
08/21/2013	SMITH, MD, JANE	V		026	05/14/2015
03/18/2013	TEST, CLIENT	V		028	05/14/2015
01/16/2013	JANE SMITH	V		027	05/14/2015
11/21/2012	JANE SMITH	V		032	05/14/2015
10/17/2012	JANE SMITH	V		030	05/14/2015
09/19/2012	JANE SMITH	V		025	05/14/2015
09/07/2012		V		050	05/14/2015
08/30/2012		V		067	05/14/2015
08/24/2012	SMITH, DORY	V		068	05/14/2015
12/29/2011	SMITH, DORY	V		009	05/14/2015
10/07/2011	SMITH, DORY	F		013	05/14/2015

### Environmental Lead Inspection Information

Inspection Date: **06/16/2013** Close Date: **12/09/2013**  
Inspection Result: **NO LEAD PAINT FOUND/LEAD PAINT PRESENT**  
Status: **CLOSED, ABATEMENT COMPLETE**  
Inspection Address: **3 CAPITOL HILL** Apt:  
**PROVIDENCE , RI 02904**  
Date Updated: **05/14/2015**

## Lead Screening

Children should be screened once a year, every year, until they are 6 years of age using the Lead "Risk Assessment Questionnaire", unless they have had two screenings at least 12 months apart, with blood lead levels below 5 mcg/dL.

Children who have, or had, elevated blood lead levels and for whom a Comprehensive Environmental Lead Inspection was ordered by the Department of Health, will have those home inspections appear on this page, with the most recent date (inspection) at the top .



◀ PREV

NEXT ▶

# Partnership with WIC - in development



- ☆☆☆ WIC can access KIDSNET immunization page without leaving the WIC information system
- ☆☆☆ Provide basic information regarding whether WIC Programs should screen children for Lead
- ☆☆☆ Modify the immunization page made available to the WIC programs - add two indicators:
  - ☆☆☆ Initial Lead Screen Due: YES would appear if they met the criteria for needing a screen
  - ☆☆☆ Second Screening Due: YES would appear if the child met the criteria for needing a second screen



## Immunization

[printer-friendly version](#)

### Search

Enter KIDSNET ID:

[LookUp](#)

### Child Information -10/23/2017

Name: **SNEEZY D ARAGOM**

KIDSNET ID: **6124286**

Date Of Birth: **02/22/2009**

Age: **8y 8m**

Gender: **MALE**

KIDSNET Status: **ACTIVE**

PCP: **TEST PEDIATRIC PRACTICE**

Parent/Guardian: **PARENT R ARAGOM**

Date of birth: **07/10/1979**

**School Requirements:**

**K:**

**7th:**

**8th:**

**9th:**

**12th:**

(as of 8/1/2017)

Valid Doses	1	2	3	4	5	6	NEXT DUE
<b>Hepatitis B</b> 3 valid doses	02/23/2009 HepB ped/adol 0m 1d	05/05/2009 DTaP-HepB- IPV 2m 13d	07/15/2009 DTaP-HepB- IPV 4m 23d <b>[1]</b>	08/25/2009 DTaP-HepB- IPV 6m 3d	04/16/2015 DTaP-HepB- IPV 6y 1m <b>[2]</b>		End of Series Reached
<b>DTaP</b> 5 valid doses	05/05/2009 DTaP-HepB- IPV	07/15/2009 DTaP-HepB- IPV	08/25/2009 DTaP-HepB- IPV	07/26/2010 DTaP	05/02/2013 DTAP-IPV	04/16/2015 DTaP-HepB- IPV	See Tdap Below

# Questions?





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