





Use of IIS to Support Medicaid Incentive Program

May 7, 2024

Some Background on 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 includes information about:



*** Demographics

*** Immunizations

*** Newborn Developmental Risk

*** Newborn Bloodspot Screening

*** Newborn Hearing Assessment

*** Childhood Lead Poisoning

*** Vital Records

*** Child Outreach (RIDE)

*** WIC

*** Early Intervention (EOHHS)

*** Family Home Visiting

*** Birth Defects

*** Cedar (Medicaid care coordination)

*** Asthma

*** Early Childhood
Developmental Screening

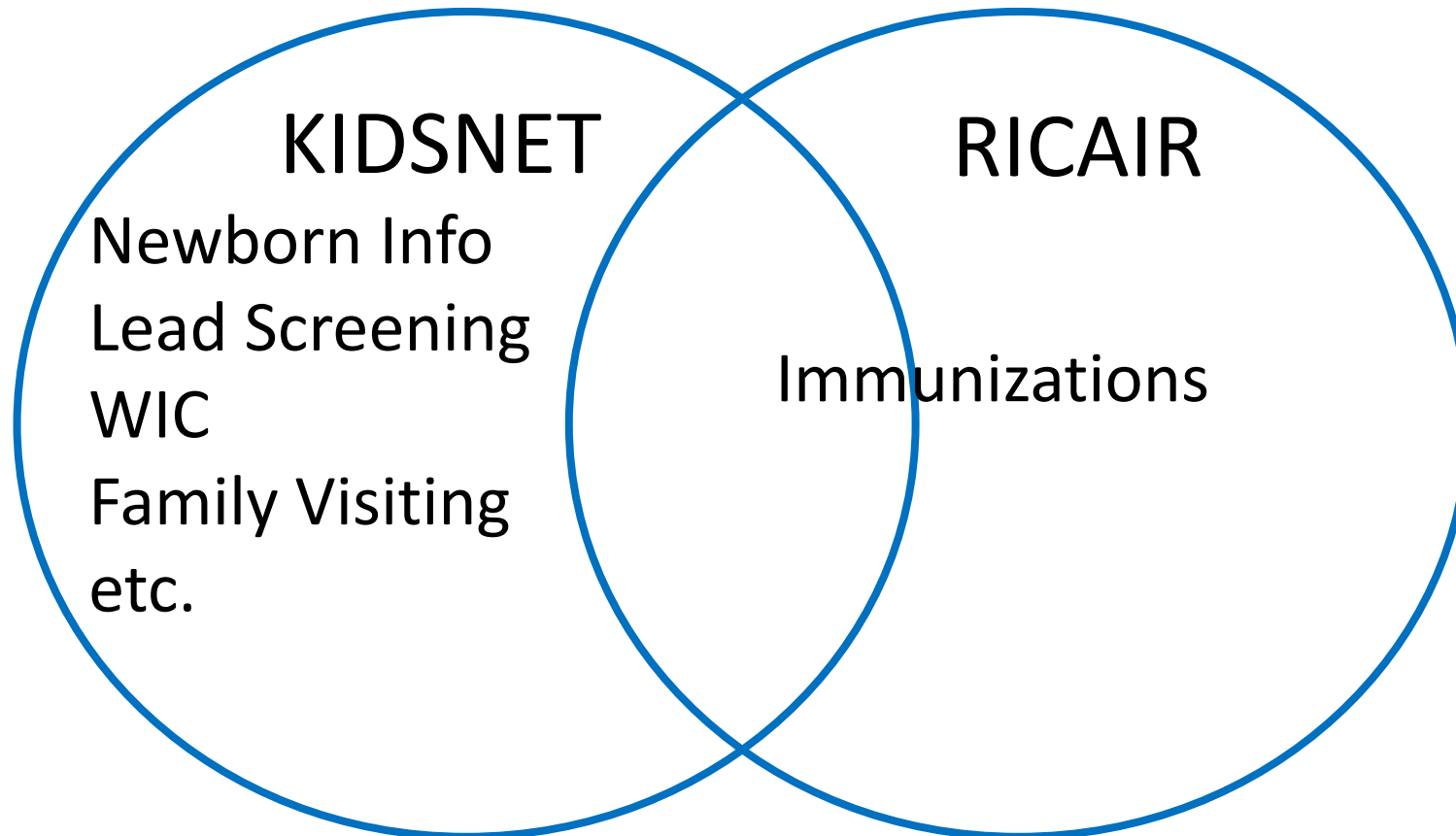
*** Foster Care (DCYF)

*** Head Start (DHS)

Rhode Island Child and Adult Immunization Registry (RICAIR) is part of KIDSNET



- RICAIR is the immunization component of KIDSNET
- RICAIR includes children and adults



KIDSNET Patient Lists



- ☆☆☆ Patients are assigned to a primary care practice when:
 - ☆☆ Indicated at birth as primary care practice
 - ☆☆ Unlinked after six months with no immunization reported
 - ☆☆ Immunization reported to KIDSNET/RICAIR by a PCP
 - ☆☆ Practice self assigns them in KIDSNET/RICAIR
- ☆☆☆ Patient lists allow us to provide practice level reports



Pandemic associated decline in vaccination

Decline in routine immunization

Primary care stressed and losing income

Year	# shots administered to children (birth through age 18), excluding flu and Covid	Total as proportion of 2019
2019	330,369	100%
2020	282,789	85.6%
2021	289,987	87.8%



Rhode Island Medicaid Pediatric Healthcare Recovery Program

- American Rescue Plan (ARPA) federal funding, allocated in state budget
- To support primary care and improve lead screening and immunization rates
- Primary care offices eligible to apply
 - excluded health centers eligible for other Medicaid funding enhancements
 - Payments made quarterly based on meeting statewide targets or individual practice improvement targets based on all patients (not just Medicaid)
- Managed and practice facilitation by the Care Transformation Collaborative Patient Centered Medical Home Kids Program
 - KIDSNET team also provided support and monthly administrative data reports
- Several iterations and funding cycles
 - KIDSNET developed a report to support the third, and last, 12-month cycle (October 2022 – September 2023)
 - Report available to participants January 2023



Rhode Island Medicaid Pediatric Healthcare Recovery Program Measures

Measure	Description
Immunization Report: Kindergarten readiness	% of patients in age range meeting Kindergarten immunization requirements
Immunization Report: 7th Grade readiness	% of patients in age range meeting 7 th grade immunization requirements
Lead screening: One test by 24 months	% of patients in age range with one lead screen by 24 months of age
Lead screening: Second test by 36 months	% of patients in age for lead measure with 2 lead screens, at least 1 year apart, by 36 months of age



Using Existing KIDSNET Reports for Medicaid Incentive Program was Labor Intensive

- Existing KIDSNET reports were based on ACIP Immunization Guidelines, not Rhode Island school requirements
- Past due report for K and 7th grade age ranges was a good starting point but did not include all who hadn't met school requirements
- Could run a patient list report
 - Filter by incentive program age range
 - Remove anyone no longer in practice (easy boost to % immunized!)
 - Look up one by one to see if they had met school requirements

School Requirements:

K: ✓

7th: ✓

8th: ✗

9th: ✗

12th: ✗

Immunization page – individual level



School Requirements: K: ✓ 7th: ✗ 8th: ✗ 9th: ✗ 12th: ✗

Have Rhode Island school requirements been met? (Not in most EHRs)

VALID DOSES						NEXT DUE
COVID-19 0 valid doses						Due Now Dose 1
Influenza	10/24/2019 Flu Quad PF 6m 4d	11/23/2019 Flu Quad PF 7m 3d	10/31/2021 Flu QdPF Ped 2y 6m			Due Now (On or after 07/01/2023)
Hepatitis B 3 valid doses	04/27/2019 HepB ped/adol 0m 7d	06/23/2019 DTaP-HepB-IPV 2m 3d	08/22/2019 DTaP-HepB-IPV 4m 2d [1]	10/16/2019 DTaP-HepB-IPV 5m 26d		End of Series
DTaP/DT/TdaP/Td 5 valid doses	06/23/2019 DTaP-HepB-IPV 2m 3d	08/22/2019 DTaP-HepB-IPV 4m 2d	10/16/2019 DTaP-HepB-IPV 5m 26d	08/01/2020 DTaP 15m 12d	04/21/2023 DTAP-IPV 4y 0m	Due in the Future (04/20/2030 - 05/17/2032) Dose 6
Pneumo 4 valid doses	06/23/2019 Pevnar 13 2m 3d	08/22/2019 Pevnar 13 4m 2d	10/16/2019 Pevnar 13 5m 26d	08/01/2020 Pevnar 13 15m 12d		End of Series
Polio 4 valid doses	06/23/2019 DTaP-HepB-IPV 2m 3d	08/22/2019 DTaP-HepB-IPV 4m 2d	10/16/2019 DTaP-HepB-IPV 5m 26d	04/21/2023 DTAP-IPV 4y 0m		End of Series
Hib 3 valid doses	06/23/2019 Pedvax HIB 2m 3d	08/22/2019 Pedvax HIB 4m 2d	05/01/2020 Pedvax HIB 12m 11d			End of Series
Rotavirus 2 valid doses	06/23/2019 Rotarix 2m 3d	08/22/2019 Rotarix 4m 2d				End of Series
MMR	05/01/2020 MMR	04/21/2023 MMR/V				End of Series

Forecasting based on ACIP recommendations

New Report added in January 2023



*** KIDSNET can be used to run reports at a PCP practice level for children

Practice Reports

Practice Reporting Menu

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 3.5\mu\text{g/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](#)
12. [Covid Immunization Report](#)
13. [Family Visit Report](#)
14. [Preventive Healthcare Measures Report](#)
15. [Newborn Characteristics Report](#)

Seasonal Reports

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

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



KIDSNET Preventive Healthcare Measures Report



Welcome to KIDSNET



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PRACTICE Reports-Preventive Healthcare Measures Summary

Generate Report

A list of patients in your practice.

Run Report for children who meet the age criteria as of the last day of:

Enter month
next quarterly
incentive
payment will
be based on



KIDSNET Preventive Healthcare Measures Report



PRACTICE Reports-Preventive Healthcare Measures Summary

[Download Report \(CSV\)](#)

Report Criteria: **Friday, April 19, 2024 01:55:20 PM**

Provider Id: **87**

Practice: **TEST PEDIATRIC PRACTICE**

Age Criteria as of the last day of: **March 2024**

Click on
number to
get a list of
children

Preventive Healthcare Measures Summary Report

Measure	Number of Patients	Met Measure	Percent Met	Not Met	Percent Not Met
K Immunization requirement	348	245	70.4%	103	29.6%
Grade 7 Immunization requirement	371	180	48.5%	191	51.5%
2 or more COVID-19 doses, age 5-11	2,355	0	0.0%	2,355	100.0%
2 or more COVID-19 doses, age 12-17	1,857	1	0.1%	1,856	99.9%
At least 1 lead screen	343	277	80.8%	66	19.2%
At least 2 lead screens	307	174	56.7%	133	43.3%



KIDSNET Preventive Healthcare Measures Report



PRACTICE Reports-Preventive Healthcare Measures Detail

Download Report (CSV)

Report Criteria: **Friday, April 19, 2024 01:56:58 PM**

Provider Id: **87**

Practice: **TEST PEDIATRIC PRACTICE**

Measure Name: **K Immunization requirement - Children who have not met the measure**

Age Criteria as of the last day of: **March 2024**

DOB Range: **04/01/2018 - 03/31/2019**

Click on download to get a list of children on an Excel spreadsheet

[<< Back to Summary Report](#)

Preventive Healthcare Measures Detail Report

Note: An asterisk (*) in the "Not Met" column means that at least one administered dose in that vaccine group was considered invalid and did not count towards series completion.

Asterisk by invalid doses!

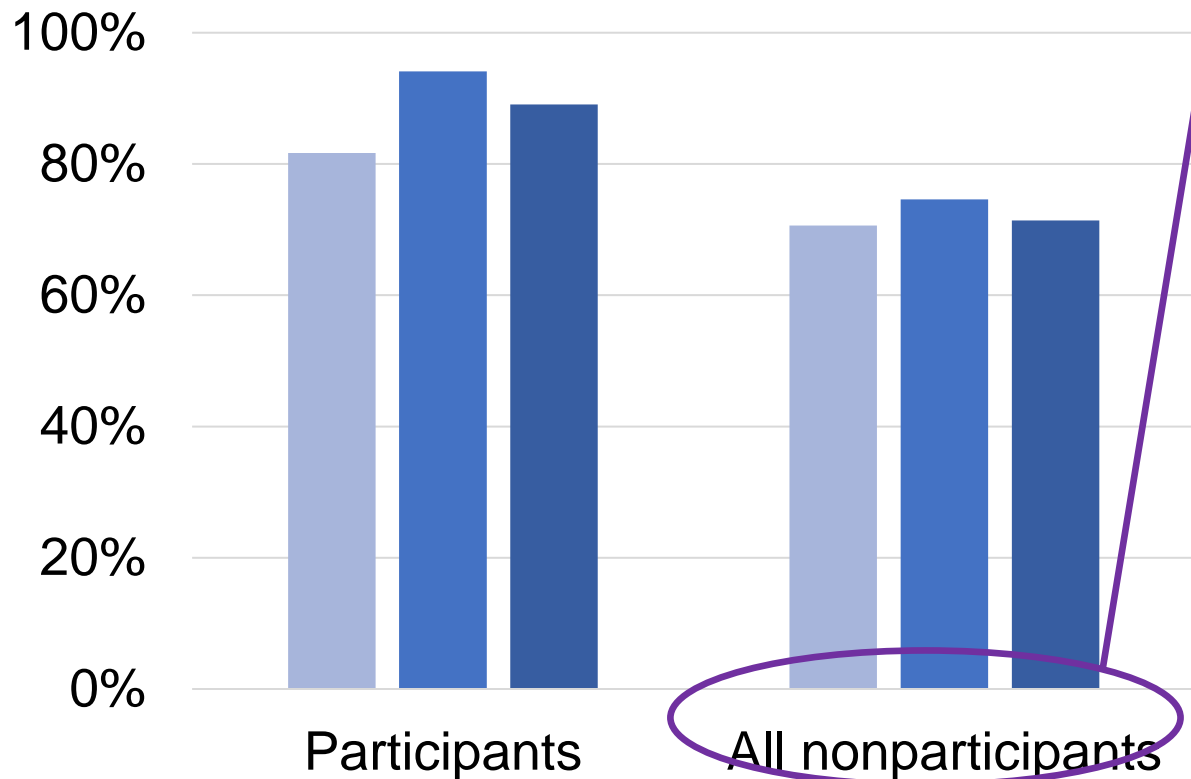
KIDSNET Id	Last Name	First Name	DOB	Not Met
1. 7727849	ANARION	PATTY	06/03/2018	MMR VZV
2. 8024877	ARAGORN	BO	12/18/2018	MMR Polio VZV DTaP
3. 8068652	ARAGORN	EUDORA	02/17/2019	Polio MMR VZV DTaP
4. 7813525	ARAGORN	FRANKLIN	01/04/2019	Polio MMR VZV DTaP
5. 8123689	ARAGORN	MARCIE	06/18/2018	VZV DTaP HepB MMR Polio
6. 8071812	ARAGORN	PEPPERMINT	11/03/2018	Polio MMR VZV DTaP HepB
7. 7725256	ARAGORN	WOODSTOCK	05/18/2018	Polio MMR VZV DTaP
8. 7793481	ARWEN	WOODSTOCK	01/31/2019	Polio MMR VZV DTaP
9. 7801791	ARWEN	WOODY	04/10/2018	Polio* MMR* VZV DTaP

Did Immunization Rates Improve? Kindergarten Immunization Requirements Met



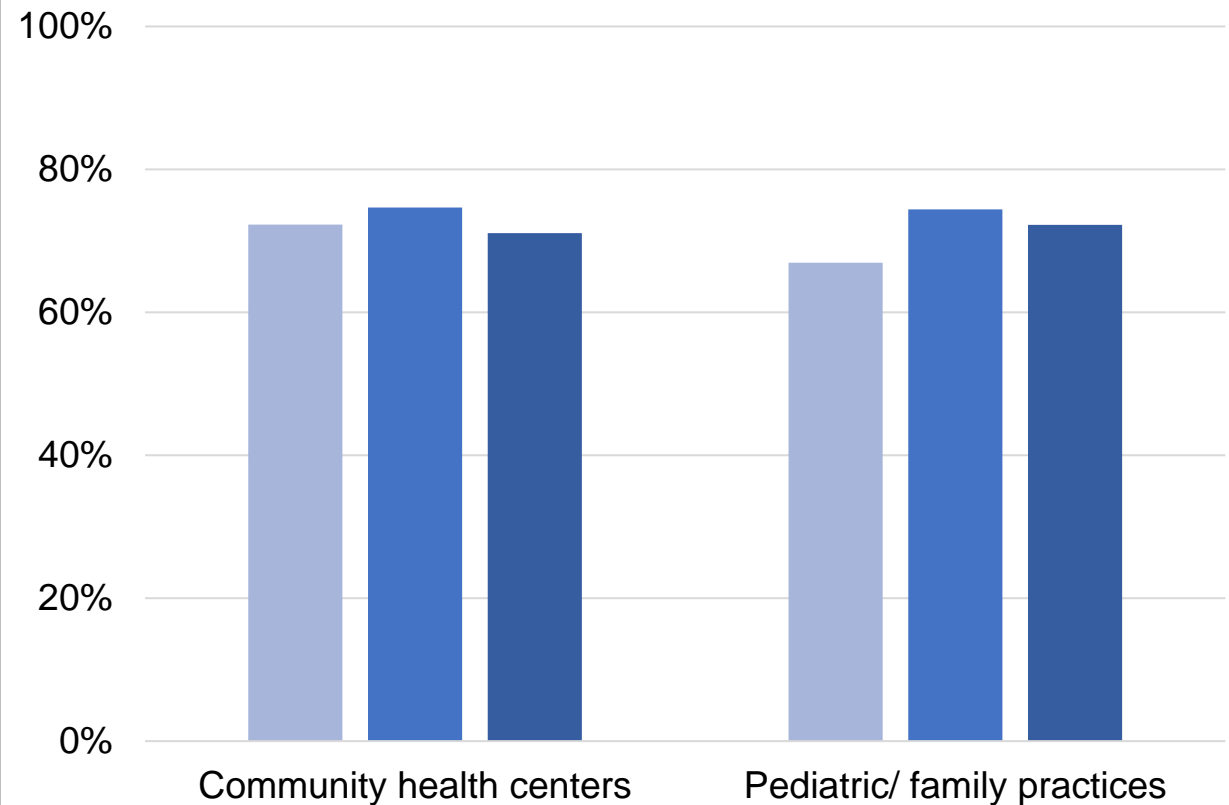
Incentive program
participants vs. nonparticipants

■ Baseline ■ End of program ■ 6 months after end



Nonparticipants by practice type

■ Baseline ■ End of program ■ 6 months after end



Did Immunization Rates Improve?

Kindergarten Immunization Requirements Met



Note: results were similar for 7th grade immunization requirements and lead screening.

	Participants	Nonparticipants		
		All	Community Health Centers	Pediatricians / Family practices
Number at baseline	7594	4035	2771	1264
Median denominator at baseline	89.5	11.5	60.5	5
% met at baseline	81.7%	70.6%	72.3%	66.9%
% of baseline at end of program	115.3%	105.6%	103.3%	111.2%
% of baseline 6 months later	109.2%	101.1%	98.3%	108.0%
Change in denominator	97.7%	94.6%	98.9%	85.2%
% on Medicaid, ages 0-6	41.6%	74.0%	86.5%	33.2%
Number of practices	56	92	30	62



Future Uses for Report

- Identify children not yet meeting kindergarten and 7th grade entry requirements for the next school year
 - Allows practice to outreach early and schedule vaccination and/or well-child visit appointments to prevent last minute rush
- Other continuous quality improvement projects the practice may wish to implement such as for Joint Commission accreditation
- Preparation for Immunization Quality Improvement for Providers (IQIP) visits

Questions?





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