



SOUTH DAKOTA
DEPARTMENT OF HEALTH

SDIIS UPDATE – 2023

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Immunization Registry Coordinator



What is an Immunization Information System?

- **Immunization information systems (IIS)** are confidential, population-based, computerized databases that record all immunization doses administered by participating providers to persons residing within a given geopolitical area.
 - **At the *point of clinical care***, an IIS can provide consolidated immunization histories for use by a vaccination provider in determining appropriate client vaccinations.
 - **At the *population level***, an IIS provides aggregate data on vaccinations for use in surveillance and program operations, and in guiding public health action with the goals of improving vaccination rates and reducing vaccine-preventable disease.



Immunization Information System highlights

Program Support – IIS help immunization programs identify populations at high risk for vaccine-preventable diseases and target interventions and resources efficiently.

Consolidated Records – IIS combine immunization information from different sources into a single record and provide official immunization records for school, daycare, and camp entry requirements.

Timely Immunization – IIS remind providers and families when an immunization is due or has been missed.

Clinical Decision Support – IIS help providers and parents determine when immunizations are due and help ensure that children get only the vaccinations they need.



South Dakota Immunization Information System (SDIIS)

In the beginning – SD had one of the first IIS in the nation! SDIIS began in the mid-to late 90s as an installed program connected to a state database.

Web-based application – SDIIS became a web-based application in the early 2000s. Avanza becomes the supporting vendor company.

Bi-directional Data Exchange – The first bi-directional interfaces between SDIIS and electronic medical records systems occurred in 2014.

May 1, 2023 – SDIIS transitions to a new vendor platform – **STChealth!**



STChealth (STC)

Founded in 1988 – built the first government immunization registry for the state of Arizona

Currently 15 jurisdictions – together form a consortium.

Alaska

Arizona

District of Columbia

Georgia (pending)

Indiana

Louisiana

Mississippi

Montana

Ohio

Puerto Rico

South Dakota

Tennessee

Washington

West Virginia

Wyoming





What's New?

The Same Ol' Same Ol'

- Enter vaccinations
- Manage patient demographics
- Manage Inventory
- Facility immunization coverage rates
- Reminder/Recall



What's New?

New and Improved!

- Learning Management System (LMS)
- Organization/Facility structure
- Message of the Day
- Home page hyperlinks
- More accurate forecasting of vaccinations
- Maintenance/Service Ticket reporting & monitoring (JIRA)
- Consortium of STC jurisdictions working together to improve the system
- Improved bi-directional interface between SDIIS and EMR
 - Support more vendors
 - Inventory Decrementation with each vaccination



What's New?

New and Improved!

- More sophisticated deduplication/merging – patient and vaccination
 - SDIIS will automatically merge records it deems to be identical
 - Manual Deduplication – for the humans to review
 - Users may report duplicates they find in the system
 - Separate Bad Merges
- Reports
 - Automatic scheduling – SDIIS will run report at a set/regular times
 - Exporting to spreadsheet formatted files
 - High volume of administrative reports available



Example Report: 4:3:1:3:U:1:U series completion for 2-year-olds by county in South Dakota

Patient County	Total Patients	Series Complete	Percent	Patient County	Total Patients	Series Complete	Percent	Patient County	Total Patients	Series Complete	Percent
AURORA	43	33	77	FAULK	19	11	58	MELLETTTE	26	17	65
BEADLE	292	179	61	GRANT	75	55	73	MINER	22	16	73
BENNETT	21	10	48	GREGORY	46	27	59	MINNEHAHA	3027	2259	75
BON HOMME	63	46	73	HAAKON	21	16	76	MOODY	70	45	64
BROOKINGS	381	254	67	HAMLIN	140	79	56	OGLALA LAKOTA	85	32	38
BROWN	441	339	77	HAND	44	29	66	PENNINGTON	343	212	62
BRULE	69	40	58	HANSON	38	31	82	PERKINS	23	12	52
BUFFALO	24	20	83	HARDING	19	12	63	POTTER	27	20	74
BUTTE	130	91	70	HUGHES	237	161	68	ROBERTS	107	71	66
CAMPBELL	10	8	80	HUTCHINSON	67	50	75	SANBORN	22	18	82
CHARLES MIX	130	77	59	HYDE	16	13	81	SPINK	74	50	68
CLARK	49	25	51	JACKSON	22	18	82	STANLEY	21	18	86
CLAY	120	88	73	JERAULD	14	10	71	SULLY	10	10	100
CODINGTON	312	162	52	JONES	10	6	60	TODD	154	83	54
CORSON	67	33	49	KINGSBURY	71	42	59	TRIPP	70	46	66
CUSTER	35	18	51	LAKE	81	55	68	TURNER	104	78	75
DAVISON	238	173	73	LAWRENCE	206	158	77	UNDEFINED	672	474	71
DAY	48	28	58	LINCOLN	806	637	79	UNION	58	37	64
DEUEL	60	41	68	LYMAN	58	36	62	WALWORTH	69	41	59
DEWEY	74	38	51	MARSHALL	58	39	67	YANKTON	248	196	79
DOUGLAS	34	20	59	MCCOOK	62	42	68	ZIEBACH	13	8	62
EDMUNDS	34	27	79	MCPHERSON	22	15	68	TOTAL	10220	7136	70
FALL RIVER	43	21	49	MEADE	125	80	64				



What's New?

New and Improved!

- **VOMS** – Vaccine Ordering Management System
 - Manage inventory
 - Notifications of expired or soon-to-expire vaccine
 - Vaccine ordering – VFC program, COVID
 - Interfacility vaccine transfers
 - Influenza Prebooking
 - Vaccine doses in inventories are linked to patient records
 - Automatic inventory decrementation



What's New?

New and Improved!

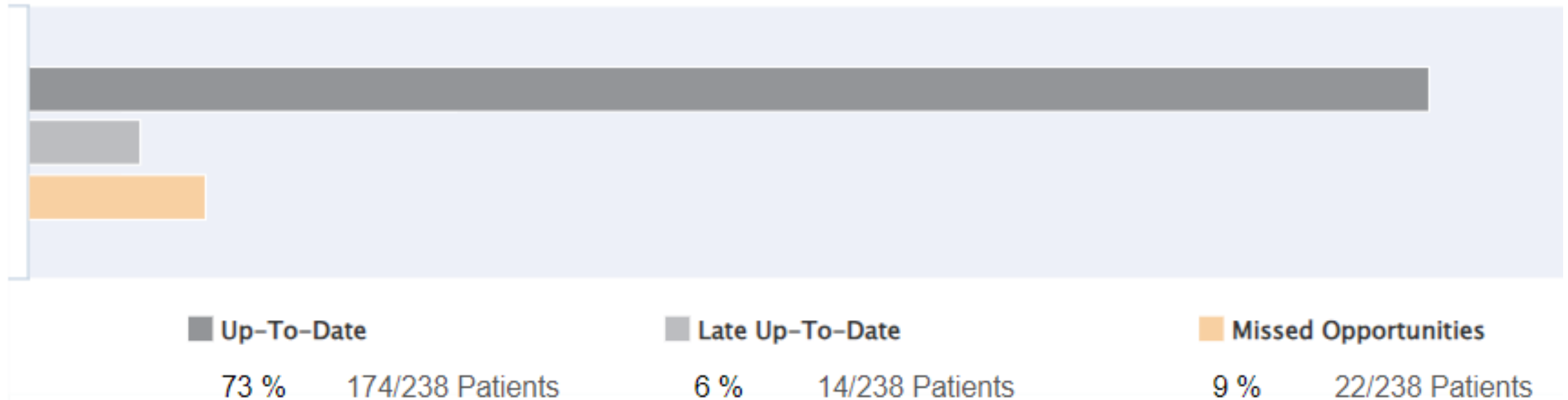
- **SMaRT IQIP**
 - Monitor Coverage Rates and Patient Lists within facility
 - Work to improve childhood and adolescent coverage rates according to the CDC IQIP Program
 - **Immunization Quality Improvement for Providers**
 - Childhood (age 24 months) – 4:3:1:3:3:1:4 (4:3:1:U:U:1:U)
 - Adolescent (age 13 years) – Tdap, MCV4, HPV



What's New?

SMaRT IQIP

Childhood Assessment | 1 MMR, 1 VAR, 3 POLIO, 4 DTAP, UTD HEP B, UTD HIB, UTD PCV





What's on the Horizon?

Stay Tuned...

- **MyIR** – My Immunization Record – Patient Portal to access own and/or minor child's immunization records
- **School Nurse Module** – allows schools and districts to monitor vaccination rates in their district and facilities
- **Cold Storage Reporting** – facilities can manage storage units and report daily temperature checks



What's on the Horizon?

Stay Tuned...

- **Dashboards** – current status and progress of state/county
- **IIS-IIS Data Exchange** – jurisdictions IIS's can share immunization data through CDC's IZ Gateway
- **VFC Providers**
 - Submit annual Provider Agreement & Provider Profile electronically
 - Submit Monthly Reports through SDIIS
- **Data Quality Improvements**



SDIIS Statistics

Facilities: 1,280 entities

Clinics

Hospitals

County Health

Pharmacies

Schools

Daycares

Patient Records: 1,524,075

Vaccinations: 20,125,823

COVID vaccinations:

1,504,001 Total

1,436,600 SD



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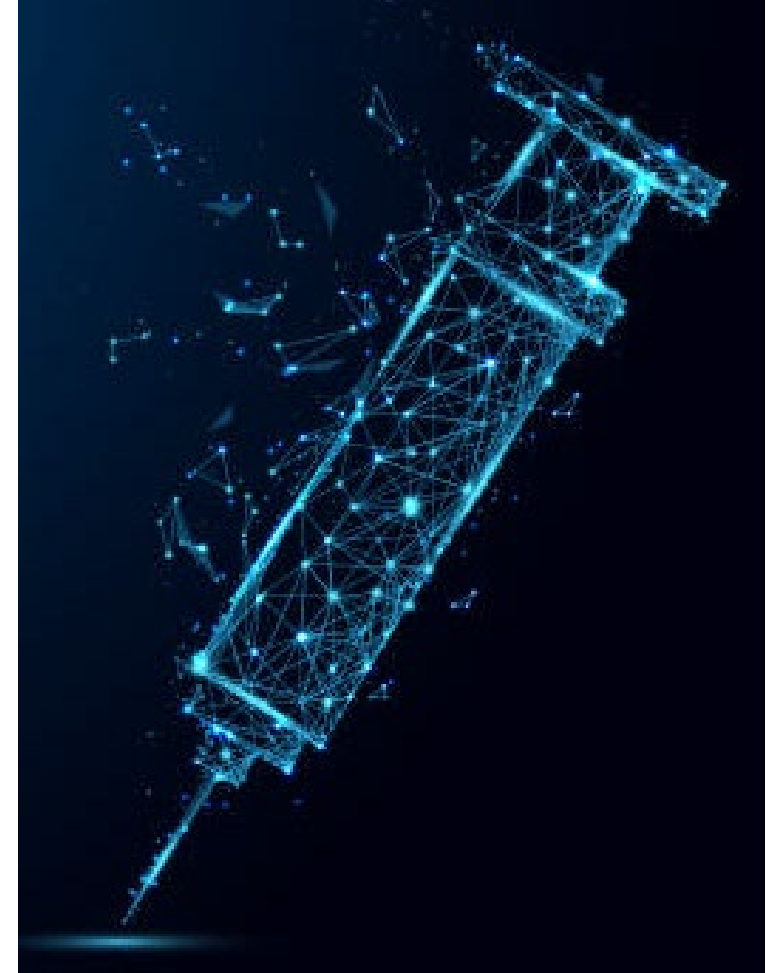
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Thank
You!