



ARIZONA

— DEPARTMENT OF —
HEALTH SERVICES



**Blue-Ribbon Quality: Elevating
ASIIS Data to Award-Winning
Standards**

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Financial Disclosures

- Danielle Falcone, faculty for this CE activity, has no relevant financial relationship(s) with ineligible companies to disclose.
- None of the planners for this activity have relevant financial relationships to disclose with ineligible companies.
- The Arizona Alliance for Community Health Centers is accredited by the Arizona Medical Association to provide medical education for physicians.
- The Arizona Alliance for Community Health Centers designated the 2026 Arizona Immunization Conference educational activity for a maximum of 11 hours AMA PRA Category 1 Credits Physicians should only claim credit commensurate with the extent of their participation in the activity.
- The Arizona Pharmacy Association is accredited by the Accreditation Council for Pharmacy Education (ACPE) as a provider of continuing pharmacy education.

Continuing Education

If you would like to claim CE Credits:

**A QR Code will be displayed in
the MAIN HALL
at the end of the day**

The following CE credits are available:

CMEs for Physicians (Doctors, NPs, PAs)

CE Contact Hours for Nurses (RNs, LPNs)

CMEs for Medical Assistants

Certified Health Education Specialists CEs
(CHES)

Social Worker CEs (National Association of
Social Workers)

Pharmacy Continuing Education



FAIR IS LIFE.

And vaccines are life saving !



Background

Duplicate Records

Bad Merges

Importance of Quality Data

FAQ

Arizona - ASIIS



1998 - State Mandate to report immunizations

Registry - Developed and hosted by STC

Sites reporting: \approx **4,700**

HL7 reporters: \approx **4,100**

Bi-directional HL7 reporters: \approx **3,600**

VFC Providers: \approx **670**

Public Vaccines shipped in 2025: \approx **1,210,000**

Public Vaccines Admin. in 2025: \approx **1,200,000**

ASIIS

MARCH 2026

REGISTRY STATISTICS OVERVIEW

MASTER
PATIENT RECORDS

12,337,328

RESERVE
PATIENT RECORDS

56,292,447

MASTER
VACCINATION RECORDS

144,983,705

RESERVE
VACCINATION RECORDS

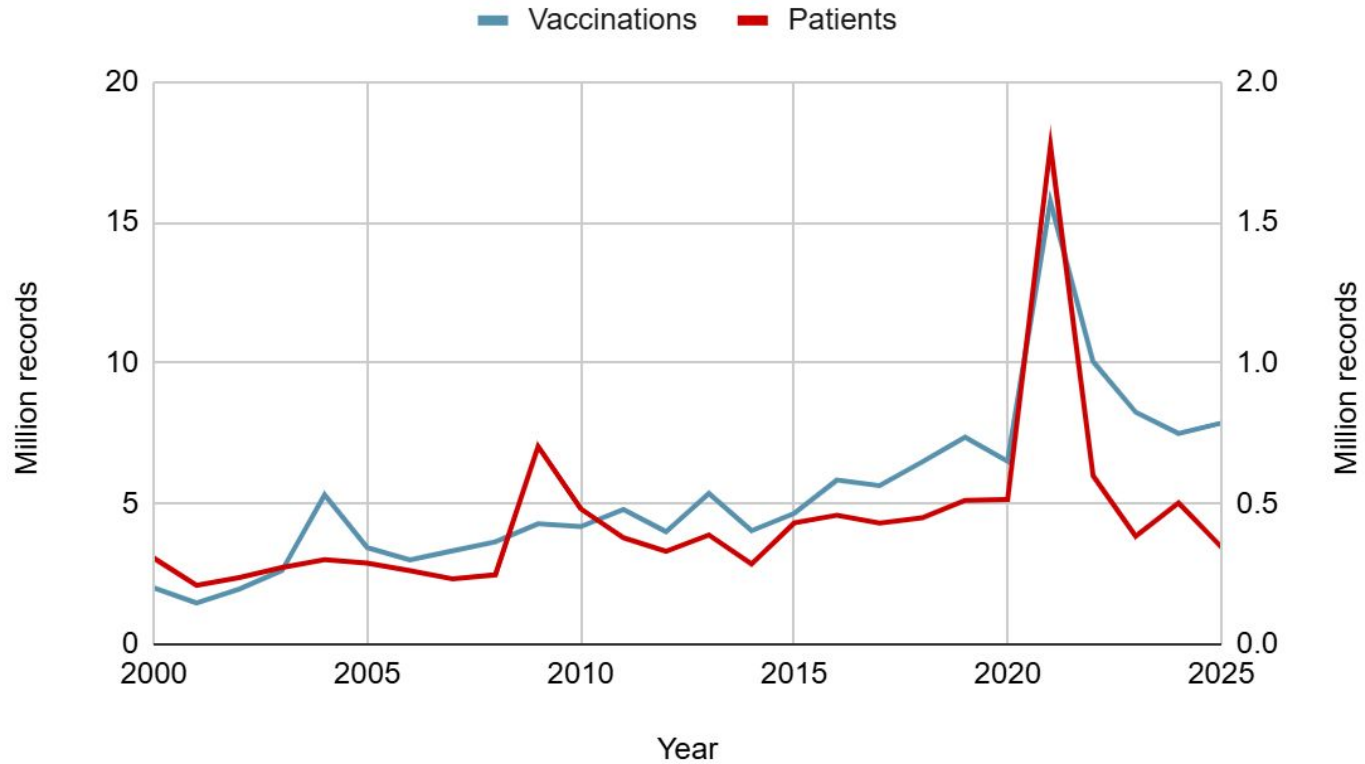
229,458,764

TOTAL VACCINATION
RECORDS

374.4M

COMBINED ENTRIES

Vaccinations and Patients

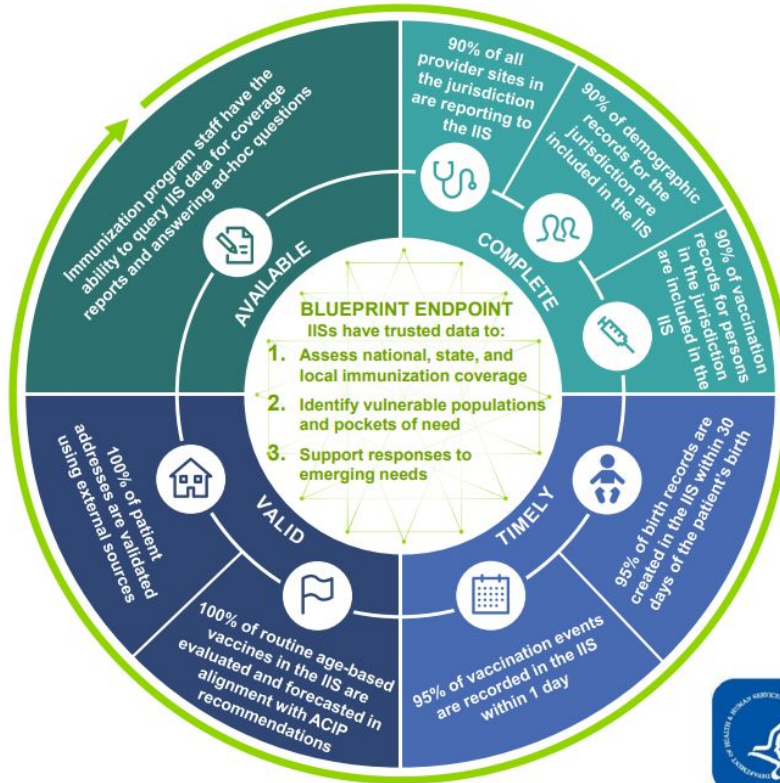


Data Quality Team Focus

- New team formed in 2021
- Bad merges
- Duplicate records
- Data quality issues with reporting
- Monitoring data
- Decrementing doses
- Adding/deleting/updating vaccines



CDC Data Quality Blueprint



Data Quality Dimensions



Duplicate Records

Patient Demographics

required fields



- First Name
- Last Name
- Birth Date
- Guardian First Name
- Mother's Maiden Name
- Street
- City
- State
- Zip Code
- Sex
- Eligibility Category
- Patient Status

additional fields



- Middle Name
- Race & Ethnicity
- Birth File Number
- Multiple Birth & Birth Order
- Phone Number / Phone Use Code
- Email
- Guardian First & Last Name
- Guardian 2 First & Last Name
- Health Plan Information

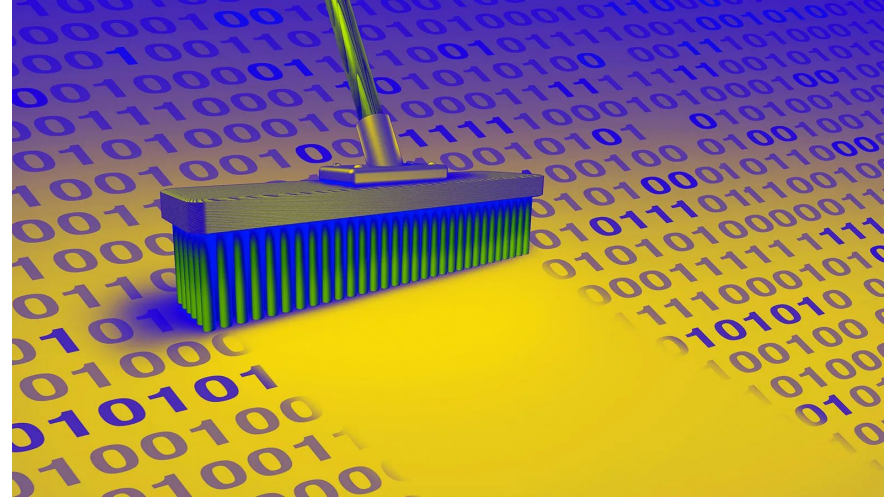


DataQualityRockzzz@yahoo.com

Dirty Data

What can dirty data be:

- Various transpositions and typos
- Misspelling and variations in records formatting and naming



Dirty Data

- **Incorrect data** - validation rules in PHC-Hub (Patients age should be less than 120 years, and months can range only from 1 to 12)
- **Inaccurate records** - Lot numbers and vaccine types (may be correct but inaccurate). For example, manufacturer codes ^Merck instead of MSD^Merck.
- **Inconsistent data** - nicknames vs. legal names
- **Incomplete records** - missing address, phone number, guardian etc. This happens when users responsible for data entry, misinterpret the value of some data and avoid to enter it.



We received this value:

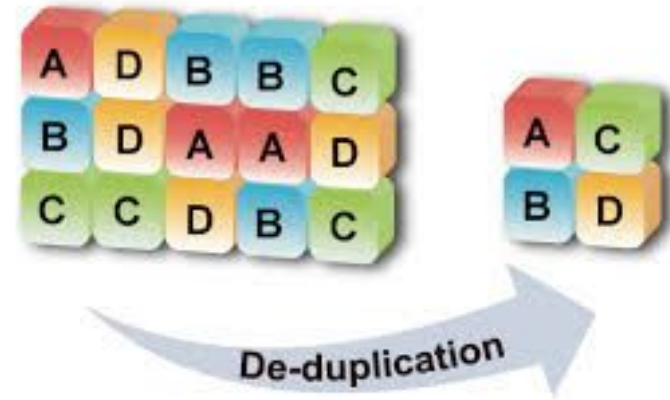
|^Merck Co.^|

The expected value was:

|MSD^Merck Co.^|

Duplicate Patients

- The Online Interface forces the user to perform a thorough search for a patient, but duplications are still possible due to the following while performing a search:
 - Variations in the name spelling
 - Address changes
 - Typographical errors
- Overall, any difference between how the patient was originally entered and how it's being searched for can result in the system not locating a match and thus, a duplicate patient is entered.
- Every time a patient demographic is sent via a HL7 message, the registry compares the incoming information with the one in the system. If it finds more than one record with matching information, that vaccination will be sent to Manual Deduplication.



Patient Search

- The "Search" process in ASIIS requires a minimum amount of search criteria to be entered.
- This information is fed into a sophisticated search algorithm that is able to search many different combinations of the information against the database tables.

Patient Search [Click here to use the 'advanced' search](#)

First Name or Initial: ID:
Last Name or Initial: SIIS Patient ID / Bar Code:
Birth Date: Chart Number:

Family and Address Information:

Guardian First Name: Mother's Maiden Name:
Street:
City: State:
Zip Code: Phone Number:
Country:

Note: When searching by First and Last Name, you may use the wildcard character % to replace multiple characters and _ to replace a single character.
 Check here if adding a new patient.

Patient Search Results

Records Found = 7 Search Criteria: Birth Date

Show entries Search:

First Name	Middle Name	Last Name	Birth Date	SIIS Patient ID	Grd First Name	Grd Last Name
SUBJECTRR		TUSTESTRR	09/09/2016	7765076	TUSR	SUBJECTTUSRR
SUBJECTSS		TUSTESTSS	09/09/2016	7765075	TUSS	SUBJECTTUSSS
SUBJECTTT		TUSTESTTT	09/09/2016	7765074	TUST	SUBJECTTUSTT
SUBJECTUU		TUSTESTUU	09/09/2016	7765078	TUSU	SUBJECTTUSUU
SUBJECTVV		TUSTESTVV	09/09/2016	7765077	TUSV	SUBJECTTUSVV
SUBJECTWW		TUSTESTWW	09/09/2016	7765080	TUSW	SUBJECTTUSWW
SUBJECTXX		TUSTESTXX	09/09/2016	7765079	TUSX	SUBJECTTUSXX

Showing 1 to 7 of 7 entries

Patient Search

First Name or Initial:	<input type="text" value="danielle"/>	WIC ID:	
Last Name or Initial:	<input type="text" value="falcone"/>	SIIS Patient	
Birth Date:	<input type="text" value="mm/dd/yyyy"/>	Chart Number	
		SSN:	

Family and Address Information:

Guardian First Name:	<input type="text"/>	Mother's Maiden Name:	<input type="text"/>
Street:	<input type="text"/>		
City:	<input type="text"/>	State:	<input type="text"/>
Zip Code:	<input type="text"/>	Phone Number:	<input type="text"/>
Country:	United States <input type="button" value="x"/>		

Note: When searching by First and Last Name, you may use the wildcard character % to
 Check here if adding a new patient.

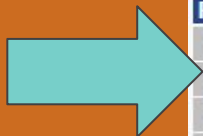
Patient Search Results

Records Found = 1

Show entries

First Name	Middle Name	Last Name	Birth Date
DANIELLE		FALCONE	12/12/1991

Showing 1 to 1 of 1 entries



Patient Search

First Name or Initial:	<input type="text" value="dani%"/>	WIC ID:	
Last Name or Initial:	<input type="text" value="falcone%"/>	SIIS Patient	
Birth Date:	<input type="text" value="mm/dd/yyyy"/>	Chart Number	
		SSN:	

Family and Address Information:

Guardian First Name:	<input type="text"/>	Mother's Maiden Name:	<input type="text"/>
Street:	<input type="text"/>		
City:	<input type="text"/>	State:	<input type="text"/>
Zip Code:	<input type="text"/>	Phone Number:	<input type="text"/>
Country:	United States <input type="button" value="x"/>		

Note: When searching by First and Last Name, you may use the wildcard character % to
 Check here if adding a new patient.

Patient Search Results

Records Found = 4

Show entries

First Name	Middle Name	Last Name	Birth Date
DANIEL		FALCONE	
DANIEL		FALCONE	
DANIELA		FALCONE	
DANIELLE		FALCONE	



Adding New Patient

Patient Search		Click here to use the 'advanced' search				
First Name or Initial:	<input type="text" value="SUBJECTAA"/>	ID:	<input type="text"/>			
Last Name or Initial:	<input type="text" value="AZTESAA"/>	SIIS Patient ID / Bar Code:	<input type="text"/>			
Birth Date:	<input type="text" value="09/09/2016"/>	Chart Number:	<input type="text"/>			
Family and Address Information:						
Guardian First Name:	<input type="text" value="AZGUAA"/>	Mother's Maiden Name:	<input type="text" value="AZIC"/>			
Street:	<input type="text" value="159 S MAIN ST"/>					
City:	<input type="text" value="PHOENIX"/>	State:	<input type="text" value="AZ"/> x ▾			
Zip Code:	<input type="text" value="85007"/>	Phone Number:	<input type="text" value="(480)364-3899"/>			
Country:	<input type="text" value="United States"/> x ▾					
Note: When searching by First and Last Name, you may use the wildcard character % to replace multiple characters and _ to replace a single character.						
<input checked="" type="checkbox"/> Check here if adding a new patient.		(Required fields are highlighted)				
		<input type="button" value="Clear"/>	<input type="button" value="Search"/>			
Patient Search Results						
Records Found = 0		Search Criteria: Advanced Search - Add / Edit / View				
Show	<input type="text" value="10"/> ▾ entries	Search: <input type="text"/>				
First Name	Middle Name	Last Name	Birth Date	SIIS Patient ID	Grd First Name	Grd Last Name
No data available in table						
Showing 0 to 0 of 0 entries						
Before adding, check to make sure the patient you want to add is not listed above or not pending manual review.						<input type="button" value="Add Patient"/>

Adding New Patient

Patient Search Click here to use the 'advanced' search

First Name or Initial:	<input type="text" value="SUBJECTEE"/>	WIC ID:	<input type="text"/>
Last Name or Initial:	<input type="text" value="TUSTESTEE"/>	SIIS Patient ID / Bar Code:	<input type="text"/>
Birth Date:	<input type="text" value="03/03/2016"/>	Chart Number:	<input type="text"/>

Family and Address Information:

Guardian First Name:	<input type="text" value="TUSEE"/>	Mother's Maiden Name:	<input type="text" value="TTEST"/>
Street:	<input type="text" value="123 Main St"/>		
City:	<input type="text" value="PHOENIX"/>	State:	<input type="text" value="AZ"/>
Zip Code:	<input type="text" value="85007"/>	Phone Number:	<input type="text" value="(602)364-3619"/>
Country:	<input type="text"/>		

Note: When searching by First Name, Last Name, or Birth Date, you can use * for wildcards and _ to replace a single character. (Required fields are highlighted)

Check here if adding a new patient. This record already exists in the database. An exact match has been found.

Patient Search Results
Records Found = 1

Show entries

First Name	Middle Name	Last Name	Birth Date	SIIS Patient ID	Grd First Name	Grd Last Name
SUBJECTEE		TUSTESTEE	03/03/2016	7500799	TUSEE	SUBJECTTUSEE

Showing 1 to 1 of 1 entries

Search:

Adding Patient Birth Order

Patient Demographics Edit

Patient Status

State Level: Active Organization Level: Inactive

County Level: Active (Maricopa)

Patient

First Name: TEST Race: Other x

Middle Name: Ethnicity: --select--

Last Name: ACCEPT Language: --select--

Suffix: --none--

Birth Date: 04/08/1998 Medicaid #: Birth Order: 2

Birth File #: Nationality: --select--

Sex: FEMALE Passport #: Visa #: Reminder/Recall Publicity Code: --select--

Mother Maiden Name: ACCEPT

VFC Status: Ineligible

Military:

Comments:

--Address

Address 1: City: State: --select-- Zip Code: Email: Address Type: --select-- Valid? Primary? **Add**

Street	City	ZIP	Type	Valid	Primary	
1 TREE	AVONDALE	85323		Y	Y	Edit Remove



Adding Patient Birth Order

Patient Demographic Master View



Record Info

SIIS Patient ID	9221379		
Organization Owner	71008 - CHD - MARICOPA		
Facility Owner	57122 - MARICOPA CHD- WEST (95TH AVE)		
Entry Date	04/08/2021 10:46:34 AM	Last Update	03/21/2024 08:23:48 PM
Entered By	MTX GLOBAL HL7 STAGING	Last Updated By	VALENTIN SOSTARIC

Patient Status

State Level	Active	Organization Level	Inactive
County Level	Active (Maricopa)		

Patient

First Name	TEST	Race	Other
Middle Name		Ethnicity	
Last Name	ACCEPT	Language	
Suffix			
Birth Date	04/08/1998	Medicaid #	
Birth File #		Multi Birth Indicator	Y
		Birth Order	2
Age	25 yrs	Military	
Reminder/Recall		Recall Attempts	0
Publicity Code			
Sex	FEMALE	Nationality	
Mother Maiden Nm	ACCEPT	Passport #	
VFC status	Ineligible	Visa #	
		Vaccine Supply	PRIVATE

- Primary Address

Address 1	1 TREE	Address 2	
City	AVONDALE	State	AZ
Zip Code	85323		
Email			
Country	United States	County/Parish	MARICOPA



Reporting Duplicate Patients

There are multiple ways to report duplicate patients!

Patient Search

[Click here to use the 'advanced' search](#)

First Name or Initial:	<input type="text"/>	ID:	<input type="text"/>
Last Name or Initial:	<input type="text"/>	SIIS Patient ID / Bar Code:	<input type="text"/>
Birth Date:	09/09/2016	Chart Number:	<input type="text"/>

Family and Address Information:

Guardian First Name:	<input type="text"/>	Mother's Maiden Name:	<input type="text"/>
Street:	<input type="text"/>		
City:	<input type="text"/>	State:	Select... ▾
Zip Code:	<input type="text"/>	Phone Number:	<input type="text"/>
Country:	United States × ▾		

Note: When searching by First and Last Name, you may use the wildcard character % to replace multiple characters and _ to replace a single character.

Check here if adding a new patient.

Patient Search Results

Records Found = 8 Search Criteria: Birth Date

Show entries

First Name ▲	Middle Name ◆	Last Name ◆	Birth Date ◆	SIIS Patient ID ◆	Grd First Name ◆	Grd Last Name ◆
SUBJECTAA	AA	AZTESAA	09/09/2016	7768558	AZGUAA	AZTESAA
SUBJECTRR		TUSTESTRR	09/09/2016	7765076	TUSR	SUBJECTTUSRR
SUBJECTSS		TUSTESTSS	09/09/2016	7765075	TUSS	SUBJECTTUSSS
SUBJECTTT		TUSTESTTT	09/09/2016	7765074	TUST	SUBJECTTUSTT
SUBJECTUU		TUSTESTUU	09/09/2016	7765078	TUSU	SUBJECTTUSUU
SUBJECTVV		TUSTESTVV	09/09/2016	7765077	TUSV	SUBJECTTUSVV
SUBJECTWW		TUSTESTWW	09/09/2016	7765080	TUSW	SUBJECTTUSWW
SUBJECTXX		TUSTESTXX	09/09/2016	7765079	TUSX	SUBJECTTUSXX

Showing 1 to 8 of 8 entries



Reporting Duplicate Patients

Report Duplicate Patients

Reason for deduplication:

Please select two or more records you wish to deduplicate

Select	First Name	Middle Name	Grd Last Name
<input type="checkbox"/>	SUBJECTAA	AA	AZTESAA
<input type="checkbox"/>	SUBJECTRR		SUBJECTUSRR
<input type="checkbox"/>	SUBJECTSS		SUBJECTUSSS
<input type="checkbox"/>	SUBJECTTT		SUBJECTUSTT
<input type="checkbox"/>	SUBJECTUU		SUBJECTUSUU
<input type="checkbox"/>	SUBJECTVV		SUBJECTUSVV
<input type="checkbox"/>	SUBJECTWW	TUSTESTWW 09/09/2016 7765080 TUSWW	SUBJECTUSWW
<input type="checkbox"/>	SUBJECTXX	TUSTESTXX 09/09/2016 7765079 TUSXX	SUBJECTUSXX

Reason for deduplication:

- select--
- select--
- DUPLICATE GUARDIAN INFORMATION
- FOUND PLEASE REVIEW
- HARD COPY REVIEWED
- INCOMING RECORD CONTAINS CORRECTED DATA
- OTHER PLEASE SPECIFY
- PARENT COPY MATCHES IMMUNIZATIONS IN REGISTRY
- PATIENTS SHARE MANY IMMUNIZATION DATES
- PREVIOUS IMMUNIZATION PROVIDERS MATCH ON DEMOGRAPHIC SCREEN
- SIGNIFICANT SHARED DEMOGRAPHIC DATA MORE THAN NAME AND DOB

[Back](#) [Report Duplicates](#)

Reporting Duplicate Patients

Please select the master record to be merged into:

Patient Set Merge		
Master Patient:	<input type="radio"/>	<input type="radio"/>
SIIS ID		
First Name	SUBJECTGG	SUBJECTHH
Middle Name		ROBERT
Last Name	TUSTESTGG	TUSTESTHH
Suffix		JR
Birth Date	03/03/2016	03/03/2016
Sex	MALE	MALE
Medicaid Number		
Birth File		
Race		Asian
Language		English
Mother Maiden Name		ELISA
Guardian First Name		JOTEST
Guardian Middle Name		MARY
Guardian Last Name		NUMBERONE
Street Address		321 S MAIN ST
City		PHOENIX
State		ARIZONA
Zip Code		85009
Phone		
Email		
Health Plan		
Health Plan ID		
HP Enroll Date		
Birth Order		
Birth Count		

Place for comments

Reason for deduplication:
FOUND WHEN SEARCHING - PLEASE
REVIEW FOR DUPLICATE

FOUND PLEASE REVIEW

Back Merge

- ▶ Patient
- ▶ Vaccinations
- ▶ Organization
- ▶ Facilities
- ▶ Physicians & Vaccinators
- ▶ Inventory Management
- ▶ Reports
- ▶ Settings
- ▶ Reminder/Recall
- ▶ DTT
- ▶ HEDIS
- ▶ Scheduled Reports
- Job Queue
- Change Password
- Administration
- Answers



IWeb

Version: 5.159.2

Help Desk

602-364-3899

E-Mail

More Ways to Report Duplicate Patients

- Helpdesk in ASIIS, side panel has phone # and email option
- Email Data Quality directly! asiis_data_quality@azdhs.gov
- Please just include the following:
 - The two (or more) ASIIS IDs that need to be merged together
 - Which one of the IDs you want to be the master (if you have a preference)

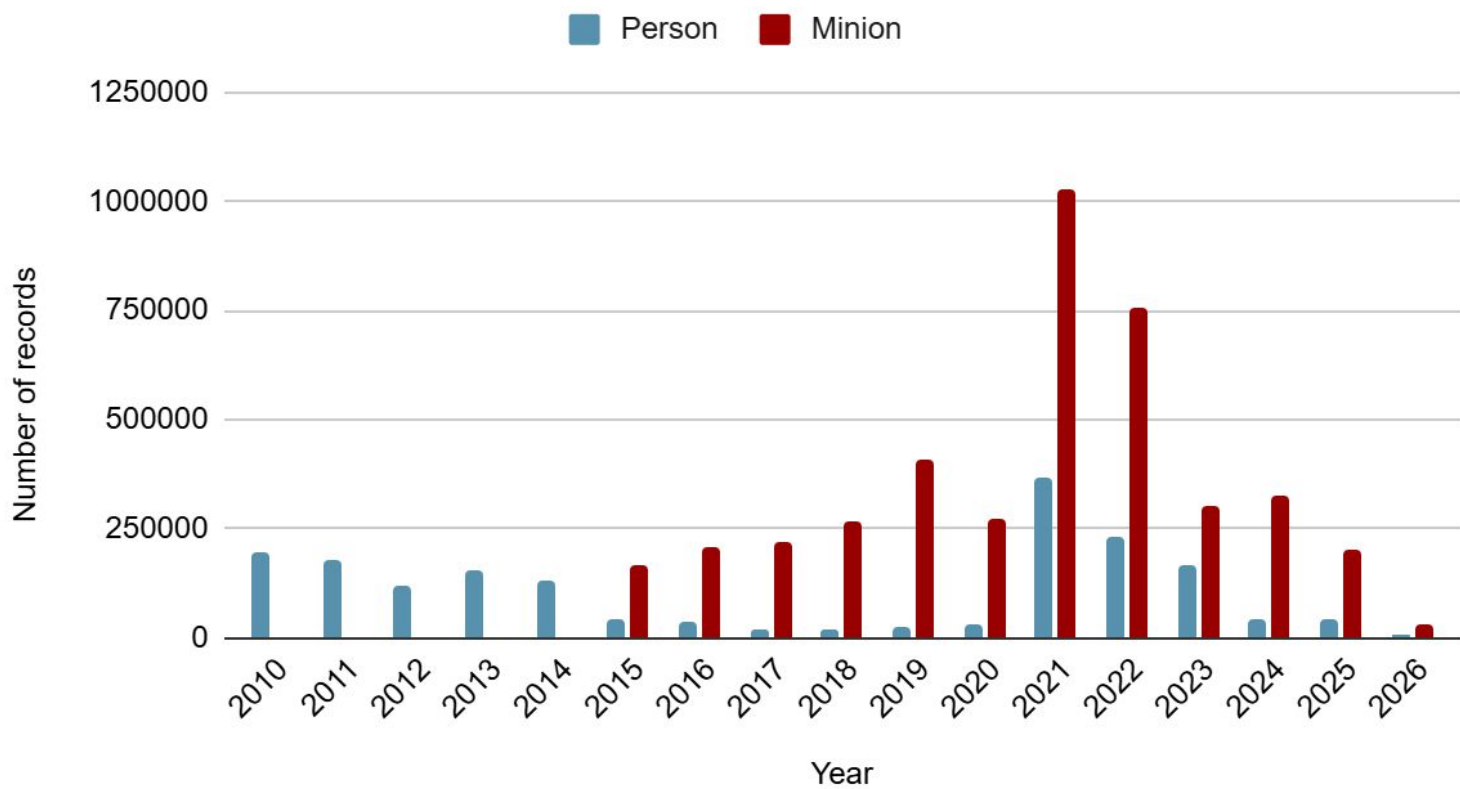
Manual Deduplication

- The registry is designed to minimize the number of duplicate patient and vaccination records within it.
- Manual De-duplication is a "manual" process when an administrator visually reviews both the incoming patient record and the record residing in the "Reserve" table and makes a decision. This decision is either to create a new patient record or merge the patient records.

The number of records coming in daily for "Manual Deduplication" is enormous!

Manual Deduplication - Over the years

Manual Deduplication Decision



Manual Deduplication

Other factors we consider:

- Last names can change due to marriage, divorce, custody changes, etc.
- Addresses change when patients move.
- Twins will have all fields in common except for first names and possibly middle names.
- Sons are named the same as their fathers where the record difference will only be seen in the birth date.

Manual Deduplication

Foster and shelter homes can have several children located at the same address, so addresses and phone numbers are not significant for the record comparison in these situations.

We look for swapped entries; such as the First Name being placed in the Last Name field, or Middle Name in the First Name field, etc.

	Incoming Patient	System Match	System Match	System Match	System Match	System Match	System Match
Merge	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
Master Record	<input checked="" type="radio"/>	<input type="radio"/>					
SIIS ID							
System ID							
System Type		Hospital-Private	Hospital-Private	Other_AZ, Public	Pharmacy-Private	Pharmacy-Private	Public
Facility ID	VILLAGE MEDICAL - VALENCIA	TMC ONE - LA CANADA	TMCONE WYATT		COSTCO PHARMACY #1079	FRY'S PHARMACY 66000083	ADHS UOFA BIOREPOSITORY
Facility Type		Private Health Facility	Private Health Facility		Pharmacy-Private	Pharmacy-Private	
Patient ID							
First Name	JESSE	JESSE	JESSE	JESSE	JESSE	JESSE	JESSE
Middle Name		L	L				
Last Name	GONZALES	GONZALES	GONZALES	GONZALES	GONZALES	GONZALES	GONZALES
Suffix							
Birth Data	Same Birthday	Same Birthday	Same Birthday	Same Birthday	Same Birthday	Same Birthday	Same Birthday
Sex	M	M	M	M	M	M	M
SSN		Same SSN	Same SSN				
Passport Number							
Medicaid Number							
Birth File							
Death Certificate							
Race	White	White Other	White Other	White Other	White Other	White Other	White Other
Nationality		United States	United States				
Language	E	E					
Mother Maiden							
Grd First Name							
Grd Middle Name							
Grd Last Name							
Guardian SSN							
Street Address	[REDACTED] T CAMINO PIZARRO	[REDACTED] TWILIGHT ECHO RD	[REDACTED] STOCKWELL PLACE		[REDACTED] OBREGON	[REDACTED] STOCKWELL PL	[REDACTED] STOCKWELL PL
City	TUCSON	TUCSON	TUCSON		TUCSON	TUCSON	TUCSON
State	AZ	AZ	AZ	AZ	AZ	AZ	AZ
Zip Code	85757	85735	85746		85746	85746	85746
Phone	Phone #1	Phone #2		Phone #2	Phone #2	Phone #3	
Email	Same Email	Same Email	ONZALES.NET	Same Email	ONZALES.NET		
Health Plan							
Health Plan ID							
HP Enroll Date							
Multi Birth Indicator		N	N	N	N	N	N
Birth Order							
Block Mail Reason							
Registry Entry	02/04/2026 14:09:32	01/28/2025 10:17:46	08/10/2021 11:28:59	05/19/2022 08:17:34	01/19/2017 07:25:00	10/18/2021 16:06:15	04/07/2021 19:58:42
Consented							

Bad Merges

Separating Bad Merges

Vaccination Summary									
Vaccinations outside the ACIP schedule are marked with an 'X'.									
Vaccine	1	2	3	4	5	6	7	8	
DTaP/DTP/Td	01/10/2001 10 weeks	03/14/2001 4 months	05/11/2001 6 months	02/12/2002 15 months	11/04/2005 5 years	01/04/2010 9 years	04/19/2010 9 years	06/14/2010 9 years	02/17/2015 14 years
Tdap	11/11/2010 10 years								
OPV/IPV	01/10/2001 10 weeks	03/14/2001 4 months	05/11/2001 6 months	11/04/2005 5 years	01/04/2010 9 years	04/19/2010 9 years	06/14/2010 9 years	02/17/2015 14 years	
MMR	X 11/06/2001 12 months	11/04/2005 5 years	02/17/2015 14 years						
Hib	01/10/2001 10 weeks	03/14/2001 4 months	02/12/2002 15 months						
Hep A	11/01/2002 24 months	11/03/2003 3 years							
Hep B - 3 Dose	01/10/2001 10 weeks	03/14/2001 4 months	08/28/2001 9 months	01/04/2010 9 years	04/19/2010 9 years	06/14/2010 9 years			
Varicella	X 11/06/2001 12 months	11/05/2008 8 years	02/17/2015 14 years						
Rotavirus	X 01/04/2010 9 years	X 04/19/2010 9 years	X 06/14/2010 9 years						
Influenza	11/05/2008 8 years	10/29/2009 8 years	10/04/2010 9 years	11/07/2011 11 years	09/18/2013 12 years	01/02/2015 14 years			
Pneumo (PCV)	01/10/2001 10 weeks	03/14/2001 4 months	05/11/2001 6 months	01/04/2010 9 years	04/19/2010 9 years	06/14/2010 9 years			
Meningococcal	11/07/2011 11 years								
Novel Influenza H1N1-09	10/29/2009 8 years								



- ▶ Patient
- ▶ Vaccinations
- ▶ Organization
- ▶ Facilities
- ▶ Physicians & Vaccinators
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- Job Queue
- Change Password
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IWeb

Version: 5.159.2

Help Desk

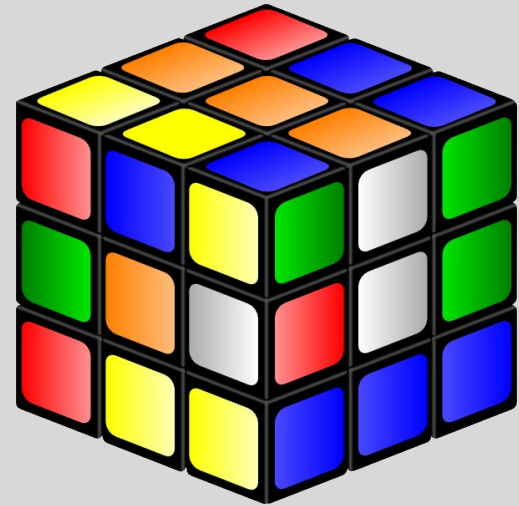
602-364-3899

E-Mail

More Ways to Report a Bad Merge

- Helpdesk in ASIIS, side panel has phone # and email option
- Email Data Quality directly! asiis_data_quality@azdhs.gov
- Please just include the following:
 - That you think this patient has a bad merge/multiple patients/twins or siblings were merged together.
 - The ASIIS ID in question
 - If the patients are twins, please specify who should be Twin A and who should be Twin B (with names!!) if you know it. That way we can ensure ASIIS reflects each twin's birth order correctly.

Let's look at some examples of what we see on our end when investigating a bad merge



Back

Get Reserve Mapping Records

Contributing Reserve Records	1	2	3	4
Select Reserve Records to Separate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Select Master Record	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Select Birth Order	Single Birth ▾	Single Birth ▾	Single Birth ▾	Single Birth ▾
Insert Stamp	09/23/2020 01:58:33 PM	04/19/2024 10:26:01 AM	02/16/2021 08:30:09 AM	01/31/2016 10:10:59 AM
Update Stamp	09/23/2020	04/19/2024	02/17/2021	01/31/2016
Organization Patient ID				
Organization System ID	60127	61151	62862	60127
First Name	Nancy	Nancy	Nancy	Nancy
Middle Name		KATHLEEN		
Last Name	AUSTIN	AUSTIN	AUSTIN	AUSTIN
Suffix				
Birth Date	Same Birthday	Same Birthday	Same Birthday	Same Birthday
Multi Birth Indicator			N	
Birth Order				
Sex	F	F	F	F
Street Address 1	S ALMA SCHOOL RD	W MARYLAND AVENUE	W LOUGHLIN DR	MCCULLOCH BLVD N
Street Address 2				
City	CHANDLER	PHOENIX	CHANDLER	LAKE HAVASU CITY
State	AZ	AZ	AZ	AZ
Zip	85224	85013	85225	86403
Phone			Phone #	
SSN		SSN		
Passport Number				
Medicaid #				
Birth File #				
Death Certificate				
Mother Maiden				
3rd First Name				
3rd Middle Name				
3rd Last Name				
Guardian SSN		Guardian Info		
Health Plan				
Health Plan ID				
Consented				

Separate Reserve Records



First Name	Last Name	Birth Date	Guardian First Name	Guardian Last Name	Current Address
					AZ

Contributing Reserve Records	1	2	3
Select Reserve Records to Separate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Select Master Record	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Select Birth Order	Single Birth ▾	Single Birth ▾	Single Birth ▾
Insert Stamp	04/30/2022 02:36:48 PM	10/11/2022 10:38:13 AM	10/11/2022 10:38:13 AM
Update Stamp	04/30/2022	10/11/2022	10/11/2022
Organization Patient ID			
Organization System ID	77770	63957	62915
First Name	ADAM	ADAM	ADAM
Middle Name			
Last Name	Williams	Williams	Williams
Suffix			
Birth Date	Same Birthday	Same Birthday	Same Birthday
Multi Birth Indicator			
Birth Order			
Sex	M	M	M
Street Address 1			
Street Address 2			
City			
State	AZ		
Zip			
Phone	██████████		
SSN			
Passport Number			
Medicaid #			
Birth File #			
Death Certificate			
Mother Maiden			
Grd First Name			
Grd Middle Name			
Grd Last Name			
Guardian SSN			
Health Plan			
Health Plan ID			
Consented			



What can you do to prevent bad merges in the first place?

- Ensure incoming records include...
 - Middle names
 - Birth File #'s
 - Overall, the more information, the better!



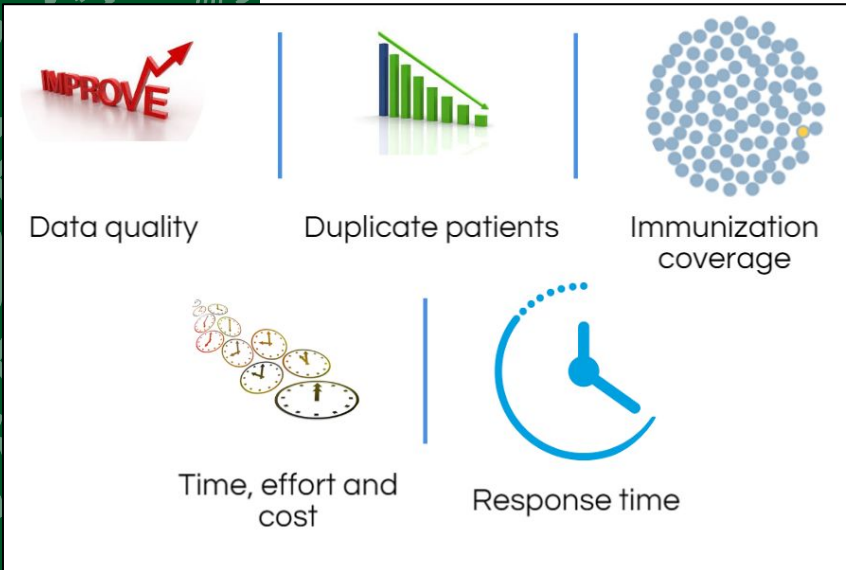
Data Quality - Demographics

Entering current and accurate patient demographics helps ASIIS and all of us to find the correct patient and avoid creating duplicate patients and helps to prevent bad merges.



Importance of Quality Data

How is this all tied together?

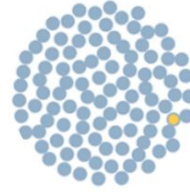


Improving the data quality of patient records leads to:

- a. Reducing the number of duplicate patients in ASIIS and helps to prevent bad merges
- b. Reducing the number of duplicate patients in ASIIS which will improve providers coverage rates
- c. Reduces labor time and effort in everyday work
 - i. Providers finding the patients, reviewing reports
 - ii. State deduplication of the records, reviewing patient data quality
- d. Reduces response time when providing quality services to our clients - the patients

Long-term Benefits of Good Data

1. Population coverage rates and analytics
2. Accurate Statistical data
3. Accurate Research data
4. Effective Reminder/Recall



Population coverage



Statistical data



Research data



Reminder/Recall

Immediate Benefits of Good Data



MyIR

Ultimately:

- Prevents invalid or outside of ACIP recommendations (Advisory Committee on Immunization Practices)
- Accurate vaccine forecasting
- Preventing unnecessary vaccinations
- Accurate immunization records



ARIZONA DEPARTMENT
OF HEALTH SERVICES

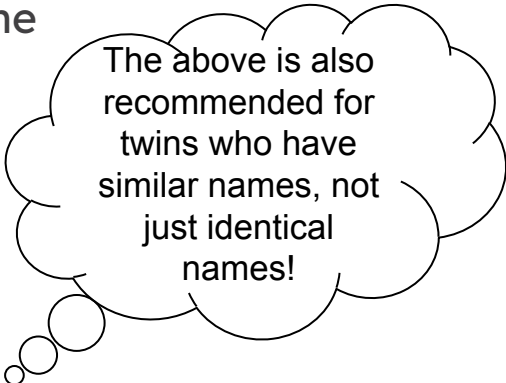


**LIFETIME
IMMUNIZATION
RECORD**

Frequently Asked Questions (FAQ)

FAQs

- HELP! My patients are twins AND they have the SAME name! How can I stop them from continuing to merge together?
 - 1. Check if there are birth certificate numbers (labeled as Birth File # in ASIIS). If missing, add them!
 - 2. Always ensure there are middle names in the profiles!!!
 - Alternative: I recently had a provider request adding each respective twin's middle name to their first name line because they had the same first name. So, at your request, if this is an ongoing issue or for the sake of “at-a-glance” viewing, feel free to ask us to make this change.



The above is also recommended for twins who have similar names, not just identical names!



FAQs



- HELP! My patient is missing from ASIIS and I can see they've received vaccines from our clinic before. So...where did they go?
 - If you have record on your end that the patient has previously received vaccinations from your clinic, please email Data Quality (or the help desk) with the patient's name and the date they were seen & vaccinated.
 - Once you do this, I will run a Patient Detail Report listing EVERY patient who got vaccinated that day at your site; I will then send that report to you, so you can compare the names on there to your in-house logs.
 - *Majority* of the time, you'll find someone on that Patient Detail Report who is NOT on your in-house log, because they were never actually seen that day! So upon my investigation of *that* person in ASIIS, it's usually a bad merge with the patient you're searching for!

FAQs

HELP! I keep getting emails like this saying that my facility has not reported VFC data to ASIIS in “X” amount of days, but I haven’t even administered any vaccines because my practice is so small/we are slower than usual/we haven’t had any vaccine events lately. Why am I still receiving this email if we haven’t administered anything?

PIN1234 - Reporting of VFC Vaccines in ASIIS as of February 2026

Dear Provider,

The Bureau of Immunization Services (BIZS) has been reviewing facilities that have not been submitting patient immunization data to ASIIS. From our review, we have found that your facility has not reported VFC data to ASIIS in more than 50 days. The last date your facility reported data to ASIIS was 12/15/2025.

Per [Arizona Revised Statute \(ARS\) §36-135](#), **Vaccines for Children (VFC) providers** are mandated to report all immunizations administered to children 18 years of age and younger to the state health department within 30 days of administration. [ASIIS](#) serves as a receptacle for accommodating these reported data. *Please note, we also encourage you to enter data on adult vaccinations to provide life-long data for patients.*

Please email ASIIS_Data_Quality@azdhs.gov within 2 weeks of receiving this email with your plan to correct the missing patient data in ASIIS and ensure it is entered in ASIIS following all state guidelines moving forward. Per the [Arizona VFC Program Operations Guide](#), failure to report administered doses to ASIIS can lead to inactivation as a VFC provider. This may result in the inability to order additional vaccines until your site comes into compliance.

For information on Arizona HL7 Specific Rules for Version 2.5.1, click [here](#).

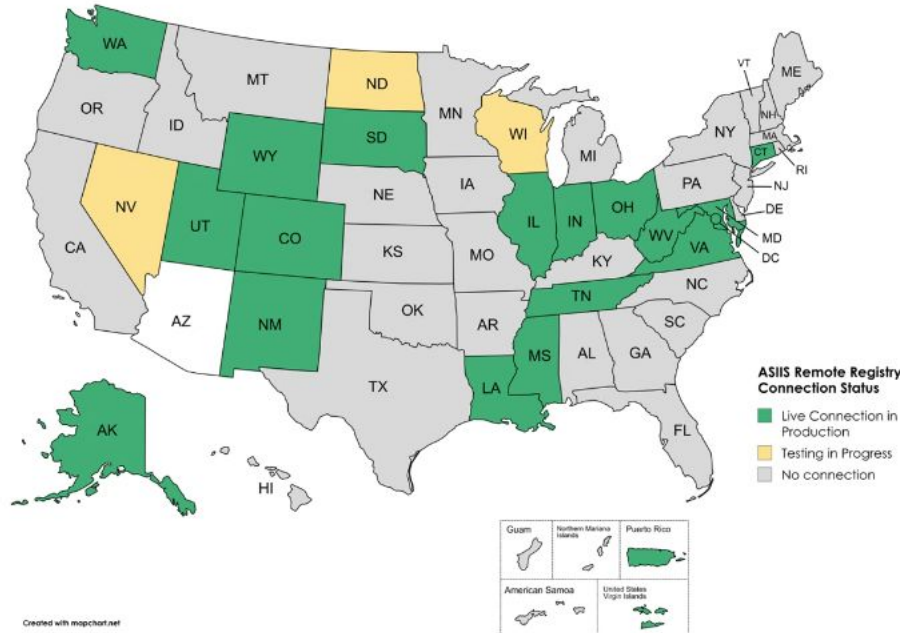
For information on the List of Vaccine Names, Best ASIIS Selection, and CPT/CVX Codes, click [here](#).

Thank you and let us know if you have any questions!

FAQs

Are we able to interface/connect data share with other states?

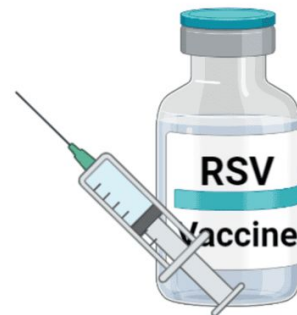
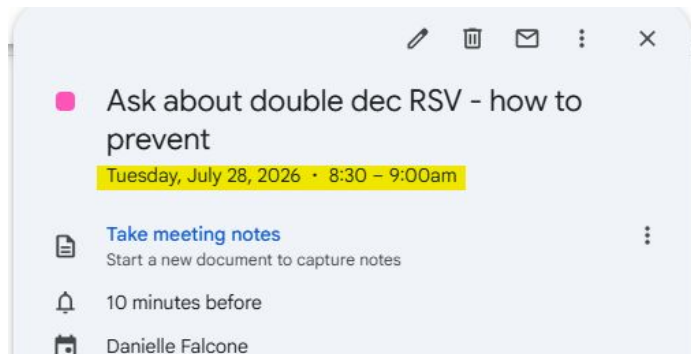
Live Remote Registry Connections



Yes! Other participating states are able to submit a remote registry query to ASIIS to transfer over AZ administered vaccine records (and vis versa).

FAQs

- Will the RSV double decrementing problem be resolved for the 2026 RSV season??
 - I am going to do everything I can to prevent this issue from occurring again.



Data Quality Best Practices

Data Quality Tips

Importance of Data Completeness

Tips for Ensuring ASiIS Data Quality

Bad Merges and What to Do

Ensure Your Office Submits Quality Data to ASiIS

VOMS 2.0 Training Guide

VOMS 2.0 Training Guide

Our team is dedicated to ensuring you have the knowledge and tools to maintain the highest standards in data quality.

We're here to support you every step of the way. If you have any questions or need further assistance, feel free to contact us.

Together, we can build a foundation for your success.

Ensure Your Office Submits Quality Data to ASiIS



High-quality data is accurate, complete, and timely:

- **Accurate:** ASiIS data accurately reflects what occurred in a clinical visit
- **Complete:** Full patient information is captured in ASiIS. The more patient information ASiIS has, the higher the chances that incoming data will be merged with the correct patient
- **Timely:** Timely submission helps ensure that the data is in ASiIS by the next doctor visit

High quality data benefits your office and patients:



Supports more accurate vaccine forecasting to decrease missed opportunities and over-vaccination



Ensures the patients immunization record is portable and follows the patient as they see other providers

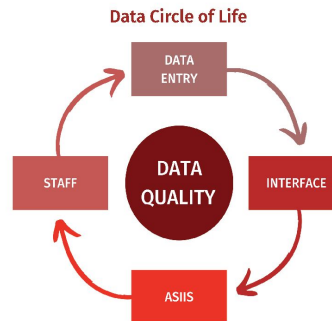


Helps schools and childcare facilities generate accurate and complete records required for entry



Supports the ability to assess accurate coverage rates and address gaps

Take these steps to ensure high data quality with your patient records:



High data quality is maintained by ensuring data being entered/reported into ASiIS is accurate and it takes the cooperation between all areas to make sure the information is accurate, complete, and timely.



Tips for Ensuring ASIIS Data Quality



Receive doses into ASIIS inventory before administering to patient

- When shipment arrives, open immediately
- Compare packing slip with contents in box and ASIIS order
- If you administered doses before receiving them into your ASIIS inventory, contact the AIPO immediately
- Check lot number
- Check manufacturer
- Check expiration date
- Do not reject doses



Ensure lot number, expiration date, manufacturer, funding source, NDC/CVX/CPT in EMR are accurate

- CDC [CVX/CPT code resources](#)
- Allow 24 hours for HL7 data transfer
 - Contact ASIIS_Electronic_Reporting@azdhs.gov for reporting issues seen from your HL7 interface



Use a [Dose Accountability Log](#) and/or [Lot Tracking Log](#) to help keep track of doses administered

- Go to azdhs.gov/vfc then "Operations Guide and Resources" to locate these under the Dose Accountability header



Ensure Patient Data Accuracy

- Check patient's name (use a legal name, not nicknames)
- Check date of birth
- Check address

Common Errors

Lot number typos

- 5 and S
- 2 or Z
- 4 or A
- G or 6
- 1 or i
- 0 or O
- Extra numbers or letters
- Missing numbers or letters
- Lot number 1/Lot number 2 - Due to not receiving lot numbers correctly in ASIIS when a shipment contains 2 lot numbers of the same vaccine type
- Transposed numbers and letters
- Extra numbers or letters
- Writing NDC number instead of lot number
- Writing lot number from the vial or syringe instead of the box
- Writing lot number from the diluent instead of the vaccine box

Vaccine Error

- Adult HepA and Pediatric HepA
- Adult HepB and Pediatric HepB
- HPV4 and HPV9
- Unspecified formula
- DTP and DTaP
- MenB and MenACWY
- PCV13 and PPSV23

Do not leave manufacturer, funding source, or lot number blank. Do not mark unknown. Any information left blank or marked unknown results in a non-complete record for the patient and will not decrement from your inventory.

Attend the Dose Accountability Webinar

- More tips on troubleshooting ASIIS inventory issues
- Held on the last Wednesday of every month (except in April and December - live sessions are offered in April at the annual immunization conference) 12-1:30pm
- Follow these [instructions to sign up](#)

***It is impppssible for the
Registry datasabe
software to
regocnize spilling
mestakes.***

→ April 15, 2026 1:25 PM-2:25 PM MST

All Learners Breakout ...

Mesa - Sirrine & Crimson

In this session, we will explore the fundamentals of using ASIIS (Arizona Immunization Information System) and VOMS (Vaccine Ordering and Management System) 2.0. We'll cover essential steps to accurately record and manage patient data and inventory, ensuring compliance with Vaccine for Children (VFC) program guidelines

Learning objectives

At the conclusion of this session, participants will be able to:

1. Document a vaccination on a patient record in ASIIS.
2. Describe how to edit a patient vaccination record in ASIIS.
3. Describe compliance with VFC program guidelines in VOMS 2.0.



Lonnie Duffield
ASIIS Database Analyst
ADHS - Bureau of Immunizati...



Maggie Macias
ASIIS Program Manager
ADHS - Bureau of Immunizati...

Exclusive Sneak Peek!

ASIIS is Getting a New Look!

Conclusion



