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#### TEXAS Health and Human Services

# Data Quality and Error Resolution

Texas Immunization Registry Interoperability Team: 1-800-348-9158 Option 3 ImmTracMU@dshs.texas.gov



#### Introductions

- Jonathan Patterson Interface Analyst
- Angela De La Cruz Interoperability Coordinator
- Paul Spock Training Coordinator

#### Terminology

Terminology we will use in this presentation:

- BiDX = Bidirectional data exchange
- FTP = File Transfer Protocol for unidirectional data exchange
- Web Services = A method for reporting data in real-time or BiDX
- Registry = Texas Immunization Registry
- Orgs = Providers, healthcare entities, organizations or sites
- EHR = Electronic Health Records systems

#### **Overview**

- Importance of Data Quality and Error Resolution
- Reviewing Errors
- Correcting Errors
- Correcting Common Errors
- COVID-19 Data Quality Errors

# ImmTrac2 Identifiers and Org Structure



#### **How Are Orgs Identified?**

#### ImmTrac2 Identifiers

- Each org (aka site) has an:
  - Org Code Ex: ABCD1234
  - TX IIS ID EX: 25283288 or 1000040000
- Identifies which orgs are using the system, reporting data and used to provide registry reports.



#### How Are Orgs Structured? (1 of 3)

#### **Stand-Alone Org**

- Has no ties or associations with other orgs.
- Reports patient and immunization data for itself.

Stand-Alone Org



### How Are Orgs Structured? (2 of 3)

#### **Parent Org**

- Has ties or associations with other orgs.
- If using data exchange, reports for itself and other sites within its parent-child hierarchy.
- If reporting online, each site reports for itself but ongoing data quality issues are reported up to the parent org.





#### How Are Orgs Structured? (3 of 3)

#### Sub-Site

- Has ties or associations with other orgs and a parent org.
- If using data exchange, its data is reported through the parent org.
- If reporting online, it enters data for itself.





# Data Entered Into ImmTrac2



#### **Reporting Methods**

Patient and immunization records are reported by Orgs:

- Online via ImmTrac2, or
- Via Data Exchange.



#### **Reporting Online**

Once access has been approved by the registry:

- Users are assigned 1 ImmTrac2 user account,
- A user account is specific to the individual,
- User accounts can access one or many locations, and
- User accounts require three items to login:
  - Org Code
  - Username
  - Password



## **Reporting via Data Exchange (1 of 3)**

- Uses an Electronic Health Records (EHR) program or similar system to extract patient and immunization data.
- Stand-alone or parent orgs are assigned a data exchange account, not sub-sites.
- Data is reported:
  - To the registry utilizing HL7 format,
  - Via FTP or Web Services,
  - Using the TX IIS ID for the sites who are reporting patient and immunization data.



### **Reporting via Data Exchange (2 of 3)**

- Data exchange accounts require the below items to login and report:
  - FTP/Unidirectionally
    - FTP Username aka Import Code
    - FTP Password
    - TX IIS IDs for Parent Org and Child Sites



#### **Reporting via Data Exchange (3 of 3)**

Web Services/BiDX

- Parent Orgs Facility ID
- Web Services Username
- Web Services Password
- TX IIS IDs for Parent Org and Child Sites



# Data Quality Issues - Online Reporting



#### **Online Reporting Issues**

- 1. Logging in with the wrong org code
- 2. Incorrect parent and sub-site relationship
- 3. Lot number entered incorrectly
- 4. Immunization reported by the wrong org
- 5. Incorrect date of birth for patient



#### Issue 1: Logging In With Wrong Org Code

- Users who are associated to multiple orgs log into ImmTrac2 with the wrong Org Code.
- Resulting in adding patients and immunizations to an org that did not see the patient or administer the vaccine.



Texas Department of State Health Services  Registry reports, vaccine decrementation and other data quality metrics will reflect the correct org as not reporting to the registry.

#### **Resolution: Log In With Correct Org Code**

- Once logged into ImmTrac2, users associate to multiple orgs see the Manage Access screen.
- The yellow banner at the top displays the org name that the user is currently logged in under, name of the user and the user's role

	TEXAS Health and H Services	uman Texas Departmen Health Services	nt of State	s Immunization	Registry 2
Training	HOME	FORMS	REGISTRATION	RELATED LINKS	÷
Welcome Test User	organization LIG	SS ABC PEDIATRICS - I	S • user Test User • KILLEEN	role Full Access Pro	oviders no/DE
ogout	ImmTrac2 Manage Acce	LIGHTHOUSE PEDIA	ATRICS		
Applications Switch Organizations	ImmTrac2 Manage Acce ImmTrac2 Manage Acce	SUNNYSIDE PEDIAT	RICS, PLLC		
Manage My Account Edit My User Account Change My Password					



#### **Issue 2: Parent and Sub-Site Relationship**

- If a parent org notices a sub-site not listed under it, then the sub-site is not associated correctly in ImmTrac2.
- If a sub-site notices they are listed under the wrong parent org, then the sub-site is incorrectly associated in ImmTrac2.



### Identifying Parent and Sub-Site Relationship (1 of 4)

• In ImmTrac2, select the **registration/renewal** tab at the top of the screen.

ImmTrac2 Texas Immunization Registry	home	registration/renewal	manage access/account	forms	related links	logout	contact us	Ÿ
	organization COMMUNITY HEALTH CENTER • user PAUL SPOCK •							
Production			role Full Access Prov	viders no	D/DE			



#### Identifying Parent and Sub-Site Relationship (2 of 4)

#### • Select the Manage Renewals option listed.





#### Identifying Parent and Sub-Site Relationship (3 of 4)

- If the user is logged in under a parent site, it appears on top with the sub-sites listed below it.
- Parent sites are able to view their org and all their sub-sites information.

#### Renewals:

When submitting a renewal for an existing organization, please review the information in each section of the application and make any necessary changes or updates. To save your progress and return at a later time to complete the renewal process, select "Save Progress and Exit". To continue working on an incomplete renewal, click the "Incomplete Renewal" link below.

Applications that are left inactive for more than 14 calendar days will be deleted and a new application must be started and saved.

Organization Name	Org Code	Site Agreement Expiration Date	Application Status	Last Edited By	Application Expires
WELLNESS POINTE 040263	WELL0026	12/18/2022	Click to Renew	Holly Davis	
WELLNESS POINTE - MOUNT PLEASANT	NORT0321	01/03/2022	Click to Renew	Holly Davis	
NORTHEAST TEXAS FAMILY HEALTH, A WELLNESS POINTE CLINIC	NORT5986	11/24/2022	Click to Renew		
WELLNESS POINTE/GILMER 040509	WELL0027	12/21/2022	Click to Renew	Holly Davis	
WELLNESS POINTE- KILGORE 040545	WELL0028	12/21/2022	Click to Renew	Holly Davis	
WELLNESS POINTE/SOUTH 040587	WELL3011	12/21/2022	Click to Renew	KIM SMITH	
WELLNESS POINTE GENERAL MEDICINE 040583	WELL3013	12/21/2022	Click to Renew	Holly Davis	
WELLNESS POINTE - PINETREE	WELL4436	12/21/2022	Click to Renew		



#### **Identifying Parent and Sub-Site Relationship (4 of 4)**

- If the user is logged in under a sub-site, the parent site appears on top with the sub-site listed below it.
- Sub-sites are only able to view their org and their parent site.

#### Renewals:

When submitting a renewal for an existing organization, please review the information in each section of the application and make any necessary changes or updates. To save your progress and return at a later time to complete the renewal process, select "Save Progress and Exit". To continue working on an incomplete renewal, click the "Incomplete Renewal" link below.

Applications that are left inactive for more than 14 calendar days will be deleted and a new application must be started and saved.

Organization Name	Org Code	Site Agreement Expiration Date	Application Status	Last Edited By	Application Expires
WELLNESS POINTE 040263	WELL0026	12/18/2022			
WELLNESS POINTE GENERAL MEDICINE 040583	WELL3013	12/21/2022	Click to Renew	Holly Davis	



**Resolution: Parent and Sub-Site Relationship** 

For both issues, contact <u>ImmTrac2@dshs.texas.gov</u> and provide:

- One or more of the sites ImmTrac2 Identifiers for the parent and sub-site,
- Org Code, TX IIS ID or physical addresses, and
- Information on the issue that needs to be resolved.



#### Issue 3: Incorrect Lot Number Entered

- A user or org identifies that they entered in the incorrect lot number for a vaccine.
- Example: Lot Number allocated to the org was EK5730 but user entered in EK05730.



Texas Department of State Health Services • For COVID-19 administrations, the lot number must be entered in correctly for proper inventory decrementation.

# Resolution: Correct the Lot Number (1 of 2)

- An org who reported the immunization or an org who administers immunizations have the permissions in ImmTrac2 to edit immunizations.
- Locate the ImmTrac2 Client's immunization record and the vaccine with the incorrect lot number.
- Select the Edit icon next to the vaccine.





# Resolution: Correct the Lot Number (2 of 2)

- The Edit Immunization screen displays.
- Locate the Vaccine Lot Number field.
- Edit the lot number with the correct lot number.
- Click the **Save** button.





### Issue 4: Immunization Entered by Wrong Org Code

- A user or org identifies that they entered in vaccinations under the wrong org code.
- Example: Org who administered COVID-19 vaccinations was NORT0321 but org who reported it was WELS0026.
- For COVID-19 administrations, the org who was shipped and provided allocated must report in ImmTrac2 they administered the vaccinations for proper inventory decrementation.



## **Resolution: Correct the Org Code** Who Administered (1 of 6)

- Log in with the correct Org Code, locate the ImmTrac2 Client's immunization record and the vaccine with the incorrect information.
- Validate if the immunization is reported correctly.
- Under the **Owned?** Column, if it states **No** this means another org reported the immunization.



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#### Resolution: Correct the Org Code Who Administered (2 of 6)

 When you select the No hyperlink, a pop-up window appears with the Org information of who reported ("owns") this immunization.

Current	Age: 18 yea	ars, 11 mon	ths, 27	Organization Information	- 🗆	×			
Client	Notes (0)	<u>view or up</u>	date no	🛈 about:blank					
Last In	nmunizatio	on Date: 1	2/27/2 A	Org Name: Wellness Pointe 040263 Address 1: 1107 E Marshall Ave Bldg 1 Address 2: Contact Name: Patricia Larson	I, Longview, TX, 756	501			
Add N	lew Imms	Add Hi	storica	Phone Number: (903) 212-4753			Official Immur	ization Record	
Immuniza	ation Recor	d					ACIP	~	
Vaccine Group	Date Admin	Age At Immunizati	ion Serie	es Vaccine [Trade Na	ime] Do	s. Owi	ned? Reactior	Hist? Disaster	Edit
SARS- COV2	<u>12/27/2020</u>	18Y 11M	l 1 of :	COVID-19,mRNA,L 2 S,PF,30mcg/0.3mL [Pfize 19 Vaccine ®]	-NP- ər COVID- Fu	u (		Yes	1



### Resolution: Correct the Org Code Who Administered (3 of 6)

- If this information is incorrect, then close the pop-up window.
- A user from the org who reported it incorrectly must log in and locate the immunization needing to be corrected.
- Select the Edit icon next to the vaccine to delete the immunization.

Vaccir Grou	e Date Admin	Age At Immunization	Series	Vaccine [Trade Name]	Dose Owned?	Reaction Hist	? Disaster	Edit
SARS- COV2	<u>12/27/2020</u>	18Y 11M	1 of 2	COVID-19,mRNA,LNP- S,PF,30mcg/0.3mL [Pfizer COVID- 19 Vaccine ®]	Full		<u>Yes</u>	1



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#### Resolution: Correct the Org Code Who Administered (4 of 6)

Edi

- The Edit Immunization screen displays.
- Locate and press the
  Delete button.

t Immunization		
Vaccine Group:	SARS-COV2	Save
Vaccine Display Name:	COVID-19,mRNA,LNP-S,PF,30mcg/0.3mL	Cancel
Trade Name:	Pfizer COVID-19 Vaccine	Delete
* Manufacturer:	PFR-Pfizer-Wyeth	
* Vaccine Lot Number:	EK5730	
Funding Source:		
Dosage From Inventory:	Full	
Subpotent Dose:		
*Date Administered:	12/27/2020	
Vaccine Eligibility:	×	
Prescribing Authority:	~	
Prescribed By:	<b>~</b>	
Body Site:	×	
Administered Route:	×	
Source of Immunization:	New Immunization Administered	
<b>Disregard Primary Series:</b>		
VIS Date for SARS-COV2:	<b>v</b>	
Disaster AIM:	Yes	
Input Source of Record:	Created through User Interface Username: AN3745HE	



### Resolution: Correct the Org Code Who Administered (5 of 6)

- A pop-up window appears asking "Are you sure you want to delete this immunization?"
- Press the **OK** button to proceed with the deletion.

training-immtrac.dshs.texas.gov says

Are you sure you want to delete this immunization?




### **Resolution: Correct the Org Code Who Administered (6 of 6)**

• The immunization is deleted, verify by looking at the immunization record.

Immunization Record				Tracking Schedule ACIP ~				
Vaccine Group	Date Admin	Age At Immunization	Series	Vaccine [Trade Name]	Dose Owne	ed? Reaction	Hist? Disaster Edit	
	This client record has no immunizations associated with it.							
Vaccines Rec	Vaccines Recommended by Selected Tracking Schedule							
Select	Vaccine (	Group Vacc	ine	Earliest Date	Recommend	led Date	Past Due Date	

- For COVID-19, you must immediately add the correct data to retain the patient in the system.
- A user associated to the correct Org, must log in and enter the immunization immediately.



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#### **Issue 5: Incorrect DOB for Patient**

- If the DOB error doesn't change the ImmTrac2 Client from a minor to an adult or vice versa, simple edits can be made to correct the issue.
  - Example: DOB listed is 01/01/2002 but should be 01/10/2002.
- Go to the Client's record and verify DOB.
- Select the **Edit Client** button.

Personal Informa	tion			Return to Search
* First Name	JOHNNY	* Gender	MALE $\checkmark$	Edit Client
* Last Name	GHOSTWRITER	SSN		Immunizations
Middle Name		Medicaid ID		Edit Consent
Suffix	$\sim$	Birth Order	(for multiple births)	Reports
* Birth Date	01/01/2002	Birth Country	UNITED STATES $\checkmark$	Delete Client
Mother's Maiden	WRITE	Birth State	~	Delete Client



# Resolution: Correct DOB for Patient (1 of 2)

- Make the correction to the DOB.
  - Example: Corrected to 01/10/2002.
- Select the Save button.





### Resolution: Correct DOB for Patient (2 of 2)

- If the DOB error **DOES** change the ImmTrac2 Client from a minor to an adult or vice versa then contact the registry for assistance in deleting the data.
- Contact us via <a href="mailto:lmmTracMU@dshs.Texas.gov">lmmTracMU@dshs.Texas.gov</a>
- Subject line of "COVID DOB Correction Org Code [Enter Here] " then enter your Org Code.
- Deletion of clients can only be done at the state level.
- Once the state has deleted the client, then you must readd the patient and their immunization to ImmTrac2 correctly.



### Data Exchange Reporting Overview



#### **Reporting via Data Exchange**

- Uses an Electronic Health Records (EHR) vendor or similar system to extract data.
- Data is reported to the registry utilizing HL7 format.
- Data is reported via FTP or Web Services.



#### Date Exchange Overview (1 of 4)

- Messages are reviewed for data quality issues (aka errors) before being added to ImmTrac2.
  - File rejection (FIR)
  - Message rejection (MER)
  - Client rejection (CLR)
  - Immunization rejection (IMR)
  - Informational error or warning (IEE)



#### Data Exchange Overview (2 of 4)

- Informational Errors data quality
  - Does not prevent data from being added to ImmTrac2
- Rejection Errors significant problems
  - Prevents data from being added to ImmTrac2
  - Must be identified and corrected by orgs



#### Data Exchange Overview (3 of 4)

- Once ImmTrac2 identifies errors, orgs receive a response for them to identify and resolve these errors.
- For orgs using FTP, three reports are generated per batch file:
  - HL7 Report aka Data Quality Analysis (DQA) reports
  - Consent Notification File (CNF)
  - Response (raw) error report



#### Data Exchange Overview (4 of 4)

- For orgs using BiDX, responses sent immediately to your Org via your EHR and per message.
  - Response (raw) error report
- Contact your EHR vendor about accessing and reviewing your error logs.



## Data Quality Reports – Data Exchange Reporting



#### **Reviewing Errors (1 of 7)**

#### **FTP Orgs:**

- At least once per week, a user from your organization must access the registry's FTP website to download and review any new DQA reports.
- DQAs should be opened using an advanced text editor such as 'Notepad++' or 'Programmer's File Editor' (PFE).



#### **Reviewing Errors (2 of 7)**

- Log into registry's website.
- Click on the **dqa-report** folder.

ipswitch	WS_FTP Veb Transfer			💄 ah	nerrera@dshs4dpim1	rac01.dshsco.state.	tx.us	CHAN	GE PASSWORD	SIGN OUT	HELP
Upload	S Download	Add folder	Delete	C Refresh							
				Connected to:	: dshs4dpimtrac01.	dshsco.state.tx.us			/users/aherre	ra	
	> 📄 acce	pted									
	> 📄 dqa-	report	-								
	> 📄 hl7-d	Iropoff									
	> 📄 recei	ve									49



#### **Reviewing Errors (3 of 7)**

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- The **dqa-report** folder is opened showing all available reports.
- Click on the **dqa-report (.HL7.Report.txt)** you want to open.



#### **Reviewing Errors (4 of 7)**

• The dqa-report (.HL7.Report.txt) you selected is automatically downloaded.

Texas Immunization Registry Web Transfer ThinClient Secure FTP	a@dshs4dpimtrac01.dshsco.state.tx.u	s CHANGE PASSWORD	SIGN OUT HELP
Upload Download Add folder	Delete Refresh		
Connected to: dshs	4dpimtrac01.dshsco.state.tx.us	🟠 🔄 🗁 /users/aher	rera/dqa-report
Name	Size Modified Date		
AHERRERA20360.HL	3.55 KB 2020-12-29 15:49:49		
File	e is downloa	ded	
© 2017 Ipswitch, Inc	vitch File Transfer		
🗋 AHERRERA20360.Htxt 🔨			Show all X



#### **Reviewing Errors (5 of 7)**

- Open the dqa report file and see the file structure:
  - HL7 Message
  - Rejection errors for that message
  - Informational Errors for that message

HE AHE	RRERA20360.HL7.Report.txt 🗵	
1	Message 3	^
2	MSH ^~\& EPIC 1234500001 TXImmTrac TXDSHS 20201220195512 21551 VXU^V04 573145 P 2.5.1	
3	PID 1  06478206^^^MR^MR  SMITH^ALAN  19901001 M   ^^^^USA^P  (512)111-3155^PRN^PH	
4	PV1  R	
5	ORC RE 358684925^EPC 6633898    ^^^20201220 20201220195509 21551^VERGARA-GOLDBERG^MI	CI
6	RXA 0 1 20201220 20201220 208^COVID-19 VACCINE MRNA (PF) (PFIZER/BIONTECH)^CVX 0.3 mL	
7		
8		
9	Error: Message Rejected	
10	** MER-105::Message rejected. Required field PID-11 missing.	
11		
12	Message 25	
13	MSH ^~\& EPIC 1234500001 TXImmTrac TXDSHS 20201226075612 42263 VXU^V04 575655 P 2.5.1	
14	PID 1  02786046^^^MR^MR  DOE^BAMBI  20080323 F DOE^CHRISTINA^M 2106-3 123 FORREST STR	EF
15	NK1 1 DOE^STEVEN SPO    Emergency Contact 1	
16	NK1 2   3100 MAIN SUITE 522^^HOUSTON^TX^77002^USA  Employer     ABC DOCS	
17	PV1  R	~



#### **Reviewing Errors (6 of 7)**

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- An HL7 message contains one client's (patient's) information and any immunizations your organization reported.
  - The patient's name is in the **PID** line.
  - The immunization is in the **RXA** line.



#### **Reviewing Errors (7 of 7)**

- Errors have an alpha numeric code followed by a short description. Example: MER-105::Message Rejected. Required field PID-11 missing.
- The short description can give you additional details to help understand what caused the error.

HER AHER	RERA20360.HL7.Report.txt 🔀	
1	Message 3	^
2	MSH ^~\& EPIC 1234500001 TXImmTrac TXDSHS 20201220195512 21551 VXU^V04 573145 P 2.5.1	
3	PID 1  06478206^^^MR^MR  SMITH^ALAN  19901001 M   ^^^^USA^P  (512)111-3155^PRN^PH	
4	PV1  R	
5	ORC RE 358684925^EPC 6633898    ^^^20201220 20201220195509 21551^VERGARA-GOLDBERG^MIC	I
6	RXA 0 1 20201220 20201220 208^COVID-19 VACCINE MRNA (PF) (PFIZER/BIONTECH)^CVX 0.3 mL	
7		
8		
9	Error: Message Rejected	
10	** MER-105::Message rejected. Required field PID-11 missing.	
11		



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#### **HL7 Error Guide**



Texas Department of State Health Services



TEXAS Health and Human Services Health Services

> The Texas Immunization Registry:

> Health Level Seven Error Guide for Electronic Data Exchange

Texas Department of State Health Services Immunization Unit Page 1 Stock No. 11-15703 Rev. 06/2020

#### **Using the HL7 Error Guide**

- Errors are organized by their error categories (FIR, CLR, IMR, MER, IEE) with a table of contents at the beginning.
- The table of contents links directly to the error.

IMR: Immunization Rejection Errors40	)
IMR-100	)
IMR-101	
IMR-102	
IMR-103	
IMR-104	)
IMR-105	)



#### Using the HL7 Error Guide cont.

**IMR-124** 

Short Description

Acknowledgement Code

Solution to Fix Error

Explanation of Error

Example of Corrected HL7



Texas Department of State Health Services Message: IMR-124::Immunization Rejected. Vaccine administration date is required. ACK Code: AE Explanation: Administration date is crucial in identifying when a vaccine was given. It is important that the date being entered is the actual date the vaccine was given and not the date that it was recorded. How to Fix: Input administration date in the RXA-3 field. Example: RXA|0|1|20190817|20190817|20^DTaP^CVX|1.0

**Error Code** 

#### **Troubleshooting Error Resolution**

- Use data exchange resources.
- ALL errors must be corrected once identified.
- Review your documentation.
- Review your workflow.
- Collaborate with your EHR Vendor.
- Contact the registry if your EHR and IT Support team cannot resolve the error.



## Data Quality Issues – Data Exchange Reporting



#### **Data Exchange Issues**

- 1. Incorrect parent and sub-site relationship
- 2. Reporting the wrong parent TX IIS ID in messages
- 3. Reporting the wrong code TX IIS ID as administered the immunization
- 4. Lot number entered incorrectly
- 5. Incorrect date of birth for patient
- 6. Missing or incorrect county of residence for patient
- 7. Missing or incorrect race and ethnicity for patient



#### Issue 1: Incorrect Parent/Sub-site Relationship

- Data reported via a specific data exchange account must have a Parent/Sub-site relationship in ImmTrac2.
- If the relationship is missing in ImmTrac2, the sub-site's records will be rejected.





### **Resolution: Correct the Parent/Sub-site Relationship**

- Submit a site agreement renewal in ImmTrac2 to set up the missing Parent/Subsite relationship.
- Instructions are on page 10 of the *ImmTrac2 Site Renewal Guide*.
- Contact the registry for support (if necessary).
- Once the relationship is corrected, resend the rejected messages for reprocessing.



#### **Issue 2: Reporting Wrong Parent TX IIS ID in Messages**

- MSH-4 identifies the parent org's TX IIS ID indicating ownership of the data exchange account.
- If a sub-site's TX IIS ID is in MSH-4, the message is rejected:
  - MER-403::Message Rejected. The "Sending Facility" in MSH-4 is a child organization; it should instead be the parent organization.





#### **Resolution: Report Correct Parent TX IIS ID in Messages**

- Contact your IT Support and EHR vendor to update MSH-4.
- Inform them that MSH-4 must always be the parent org's TX IIS ID.
- Once corrected, resend the rejected messages for reprocessing.



#### **Issue 3: Reporting Wrong TX IIS ID as Administered the Immunization**

- TX IIS ID populated in RXA-11.4 signifies that org administered the vaccination reported.
- ImmTrac2 does not validate whether the RXA-11.4 is the correct org based on vaccine reported or lot number.
- These issues are not flagged as an error in your DQA reports.
- ImmTrac2 only validates if the TX IIS ID in RXA-11.4 is associated to the parent org.
  This TX IIS ID is a subsite of the parent but did not administer, the vaccine. The



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#### **COVID-19: Incorrect Reporting Org**

- COVID-19 immunizations must be reported by the org they were allocated to.
- COVID-19 immunizations reported by other sites will not decrement from VAOS.
- The reporting org is identified by the administering org's TX IIS ID in RXA-11.4



#### **Resolution: Correcting the TX IIS ID As Administered the Immunization**

- Work with IT Support and EHR vendor to map all subsites with the correct TX IIS ID.
- Org sends incorrect data with a deletion indicator in RXA-21 to remove incorrect data from ImmTrac2.
- Org sends corrected data, the correct TX IIS ID in RXA-11.4 to add the correct data to ImmTrac2.



#### Issue 4: Lot Number Entered Incorrectly

- ImmTrac2 <u>does not</u> validate whether the lot number reported in RXA-15 is valid or correct.
  - Not flagged as an error in your DQA reports.
- Registry staff perform high-level analysis for COVID-19 immunizations to determine if lot numbers reported match what was allocated.



Texas Department of State Health Services  The lot number reported to ImmTrac2 must be exactly as listed on the medication in order to decrement in VAOS.

#### **COVID-19: Incorrect Lot Number**

Example: Org received a COVID-19 allocation with lot number **EK5730** but reported:

- Unnecessary spaces: EK 5730
- Swapped characters: EK5370
- Additional characters: EK<mark>0</mark>5370
- Incorrect characters: EK<mark>S</mark>730
- Anything other than the lot number: Unknown

		_
MSH   ^~\&  EPIC   1234500001   TXImmTrac   TXDSHS   20201220195512   21551   VXU^V04   573145   P   2.5.1		
PID 1  06478206^^^MR^MR  SMITH^ALAN  19901001 M   ^^^^^USA^P  (512)111-3155^PRN^PH		
PV1  R		
ORC RE 358684925^EPC 6633898    ^^^20201220 2001220195509 21551^VERGARA-GOLDBERG^MICHELLE 10526^LEMBCKE^BRADLEY^THOMAS1020110068^^10201	110^^^^	HAR
RXA 0 1 20201220 20201220 208^COVID-19 VACCINE MRNA (PF) (PFIZER/BIONTECH)^CVX 0.3 mL  00^New Immunization Record^NCIRD001  ^^1234500010	EK573	PFR



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### **Resolution: Update the Correct Lot Number**

- Retrain staff to enter the lot number in EHR as it appears on the medication.
- Make corrections in EHR with the accurate lot number.
- Resend the immunization records with the corrected lot number.



Texas Department of State Health Services • As long as the only change made is the corrected lot number, ImmTrac2 updates the existing information and does not create a duplicate immunization.

# Issue 5: Incorrect DOB for Patient (1 of 2)

#### • Future DOB

 DQA Report populates CLR-303:: Client Rejected.
Invalid date of birth. Must be prior to or equal to today.

#### Message 65

MSH|^~\&|Epic|1234500001|TXImmTrac|TxDSHS|20200109170126|2264|VXU^V04^VXU\_V04|174507|P|2.5.1

PID|1||1187802^^^EPIC^MR||PIGLET^BARNEY^^^^L||20200131||4|BARN^MARGIE^D^|2131-4^Unreported/Refused to Report^HL70005|105 COUNTRY FARM

#### 

ORC|RE|13859933^EPC|2964551^FAMILY HEALTH CENTER||||^^^20191205^^^^||20191205105454|2264^HERNANDEZ^ERICA^^||4041^DOEL^JASON^^|101^^2 RXA|0|1|20191205|20191205|150^INFLUENZA QUADRIVALENT^CVX|999|||00^New immunization record^NIP001~|2675^VENCES^ERICA^^|101^^123450002 RXR|IM|LD

Error: Message Rejected

\*\* CLR-303::Client rejected. Invalid date of birth. Must be prior to or equal to today.



# Issue 5: Incorrect DOB for Patient (2 of 2)

- Incorrect DOB for age
  - ImmTrac2 <u>does not</u> validate whether the age is appropriate for the immunization via data exchange.
  - Not flagged as an error in your DQA reports.
  - Registry staff performing high-level analysis for COVID-19 patients to determine if the age matches priority groups being immunized.

MSH ^~\& EPIC 1234500001 TXImmTrac TXDSH5 20201226075612 42263 VXU^V04 575655 P 2.5.1
PID 1  02786046^^^MR^MR  DOE^BAMBI  20200323 F DOE^CHRISTINA^M 2106-3 123 FORREST STREET^^MAGNOLIA^TX^77354^USA^P
NK1 1 DOE^STEVEN SPO    Emergency Contact 1
NK1 2   3100 MAIN SUITE 522^^HOUSTON^TX^77002^USA   Employer     ABC DOCS                      95 Fu
PV1    R
ORC RE 147248913^EPC 6653765    ^^^20201226  20201226075612 42263^MOREAU^MICHAELA  4877^RAZA^SYED^AHSUN 1020250018/
RXA 0 1 20201226 20201226 207^COVID-19 VACCINE MRNA(PF) (MODERNA)^CVX 0.5 mL  00^New Immunization Record^NCIRD001



**Texas Department of State** 

**Health Services**
# **Resolution: DOB for Patient (1 of 2)**

- Retrain staff to enter the patient information in EHR accurately.
- Make corrections in EHR with the accurate DOB.
- Resend the patient and immunization records with the corrected DOB.



# **Resolution: DOB for Patient (2 of 2)**

- Incorrect DOB for age:
  - This causes a change to the ImmTrac2 Client from a minor to an adult or vice versa.
  - Contact the registry via <u>ImmTracMU@dshs.Texas.gov</u> for assistance in deleting the data.
  - Subject line of "COVID DOB Correction Org Code [Enter Here] " then enter your Org Code.
  - Deletion of clients can only be done at the state level.
  - Once the state has deleted the client, then you must resubmit the corrected patient and their immunization to ImmTrac2.



# Issue 6: Missing or Incorrect County of Residence for Patient (1 of 2)

- ImmTrac2 <u>does not</u> validate whether the patient's county of residence is missing or incorrect in PID-11.9.
  - Not flagged as an error in your DQA reports.
- Registry staff perform high-level analysis for COVID-19 immunizations to determine if county of residence is missing or incorrect.



Texas Department of State Health Services  Results in state and DSHS county level of reporting to be inaccurate.

# Issue 6: Missing or Incorrect County of Residence for Patient (2 of 2)

• Example 1: Patient's address is reported with no county in PID-11.9.

MSH|^~\&|EPIC|1234500001|TXImmTrac|TXDSHS|20201226075612|42263|VXU^V04|575655|P|2.5.1 PID|1||02786046^^^MR^MR||DOE^BAMBI||20200323|F|DOE^CHRISTINA^M|2106-3|123 FORREST STREET^^MAGNOLIA^TX ^77354^USA^P||(512 NK1|1|DOE^STEVEN|SPO||||Emergency Contact 1 NK1|2||3100 MAIN SUITE 522^^HOUSTON^TX^77002^USA||Employer|||||ABC DOCS|||||||||||||||||||||95|Fu



Texas Department of State Health Services • Example 2: Patient's address is reported with county of residence spelt out, not using FIPS County Codes.

MSH|^~\&|EPIC|1146780024|TxImmTrac|TxDSHS|20201226123844|4563|VXU^V04|955272|P|2.4

# **COVID-19: Missing or Incorrect County**

- The patient/client home address county is a required element for COVID-19 reporting, as required by the CDC.
- The client's county must be reported using the county FIPS code in PID-11.9
- This information is used by the state for reporting to the CDC.



# **Resolution: Correct County of Residence for Patient**

- Work with IT Support and EHR vendor to update systems to include FIPS County Code for patient address in PID-11.9.
- FIPS County codes five digits, the first two are the FIPS code of the state (48 for Texas) and the next three for the county.
- Send the corrected data via data exchange to have registry records updated with FIPS County Code.
- Example of HL7 with FIPS County Code:

MSH|^~\&|ATHENANET|1192900005|TxImmTrac|TxDSHS|202012251714||VXU^V04^VXU\_V04|14595147M19704|P|2.5.1|||ER|AL||||
PID|1||231049^^^athenaNet^MR~||ELEPHANT^DUMBO^^^^L||20170720|M||^^HL70005|5400 CIRCUS AVENUE^SPRING^TX^77386^USA^P^TX339|
PD1||||||||01^No reminder/recall^HL70215|||||A|20201223|20201223
NK1|1|ELEPHANT^MOMMA^^^L|GRD^GRD^HL70063|5400 CIRCUS AVENUE^SPRING^TX^77386^USA^P|^PRN^PH^^512^1230136|||||||||||||||||||2017052



Health Services

**Texas Department of State** 

# Issue 7: Missing or Incorrect Race and Ethnicity for Patient (1 of 2)

- ImmTrac2 does not validate whether the patient's race in PID-10 and ethnicity in PID-22 are missing or incorrect.
  - Not flagged as an error in your DQA reports.
- Registry staff perform high-level analysis for COVID-19 immunizations to determine if information is missing or incorrect.
- Results in state and DSHS reporting to be inaccurate.



# Issue 7: Missing or Incorrect Race and Ethnicity for Patient (2 of 2)

• Example 1: Patient's race in PID-10 and ethnicity in PID-22 are missing.



• Example 2: Patient's race in PID-10 and ethnicity in PID-22 are reported with information spelt out, not using HL7 Codes.





# **Resolution: Correct Race and Ethnicity for Patient**

- Work with IT Support and EHR vendor to update systems to include HL7 Codes for patient race and ethnicity in the PID segment.
- Send the corrected data via data exchange to have registry records updated with correct race and ethnicity codes.
- Example of HL7 message with race and ethnicity reported accurately:

(IED NONE || || N^Not Hispanic or Latino^CDCREC ||N||||||N

PID|1||0278 JINA^M 2106-3^White^HL70005 123 FORREST STREET







# Reminders (1 of 2)

Regardless of reporting online or data exchange, must always:

- Check you are reporting under and for the correct org,
- Identifying any and all data quality issues,
- Resolving all data quality issues timely,
- Resubmit data that rejected or resulted in error,
- Report lot number accurately, and
- Report all required elements, including: Patient County, Race and Ethnicity.



#### Reminders (2 of 2)

- Use registry resources available on our DSHS website:
  - <u>https://www.dshs.texas.gov/immunize/immtrac/</u>
- Contact the registry by email if IT Support and EHR Vendor can't resolve issues alone.
  - ImmTrac2@dshs.texas.gov
    - Access, site registrations or renewals, etc.
  - ImmTracMU@dshs.texas.gov
    - Data exchange and promoting interoperability



# **Thank You!**

Texas Immunization Registry Access, site registrations or renewals, etc: <u>ImmTrac2@dshs.texas.gov</u> Data exchange and promoting interoperability: ImmTracMU@dshs.texas.gov

