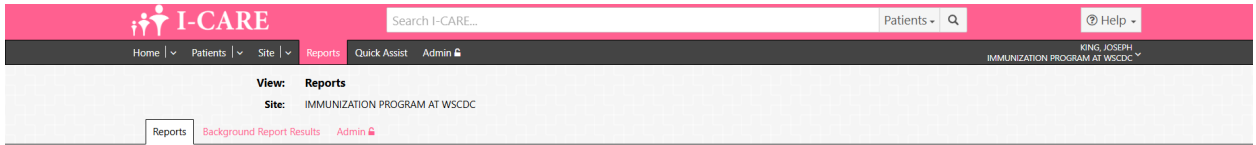


How to Run the HL7 Error Log

1. Log into I-CARE and navigate to the “Reports” tab at the top of the screen:



2. Scroll down to the section titled “Site Reports” and click on [HL7 Errors](#)

Site Reports

[Bad Address](#) – Generate a list of active patients with an invalid primary address.

[Invalid Doses](#) – Generate a list of patients with invalid doses. **★ UPDATED**

[Missed Opportunities Detail](#) – Generate a report of missed opportunities for a site. A missed opportunity for a patient is calculated by finding the most recent shot date for a patient, and then listing all forecasted shots where the forecasted date is before the most recent shot date.

[Missed Opportunities Summary](#) – Generate a summary report of missed opportunities for a site.

[Missing Lots](#) – Generate a list of patients with missing lot numbers on immunizations.

[Monthly Statistics](#) – Generate a monthly statistics report for patients aged 24 - 35 months or for patients aged 9 - 26 years. This report will always run as a background process.

[Patient List Export](#) – Generate a comma-delimited text file of patients that match the search criteria.

[Shot Refusals](#) – Generate a list of shots refusals reported by a site within a given time period.

[HL7 Errors](#) – Generate a HL7 Errors Report. View all HL7 upload errors and warnings.

3. Enter your site name and the date range you would like to review. For this report, you may choose to either view all HL7 Warnings and Errors, or you may select any which you would like to view:

a. For ALL HL7 Warnings & Errors:

- b. For any specific HL7 Warnings or Errors you would like to view, first uncheck “All Errors and Warnings” and check the box(es) corresponding to the HL7 Error(s) and/or Warning(s)

you would like to view:

Report: Site HL7 Errors

Criteria **Report**

Select Group: Site

Site: IMMUNIZATION PROGRAM AT WSCDC *

Date Range: 03/11/2025 (From) 03/12/2025 (To)

All Errors and Warnings:

Error Codes:


- [1000] - MRN Re-use for two different patients
- [1011] - Patient MRN (PID-3) is empty [PID-3]
- [1012] - ID Type Code has an empty or repetition value
- [1013] - ID Type Code does not exist in the system
- [1014] - Alias Name is empty. Alias Record Ignored
- [1015] - Alias Code does not exist in the system
- [1016] - Empty Address Line 1
- [1017] - Duplicate Address
- [1018] - Address Type Code does not exist in the system
- [1019] - Empty Phone Number
- [1020] - Telecom Type Code does not exist in the system
- [1021] - Telecom Use Code does not exist in the system
- [1022] - NK1 Relationship code does not exist in the system
- [1023] - Empty Shot Date

4. You may choose to view this report within I-CARE as an HTML Report, view as a PDF, or export as an Excel file (CSV):

- a. **HTML Report:** This report can be sorted using the top row (ex. Sort by DOB ascending/descending or Error Description by A-Z or Z-A). You may also click on the highlighted Patient Name to view the corresponding I-CARE record or click the "Source HL7 File" link to view the raw HL7 message sent to I-CARE

Report Actions: [PDF Report](#) [CSV Export](#)

HL7 Errors Report
 Print Report for Site ICARE TRAINING SITE1
 Errors Reported on Dates from 03/01/2025 to 03/04/2025
 Printing Report Date: 3/12/2025 9:13 AM



MRN Patient_ID	Patient Name	Date of Birth	Error Type	Error ID	Error Description	HL7 Field	Error Date/Time	Source HL7 File
S14L414761 1344027280	LEVANAIRA LYCOMINGAIBA	02/19/2021	W	1016	Empty Address Line 1. Address Record Ignored	PID^1^11^1^1	03/03/2025 10:20:30	Web_Service.C:\bba32cd3_ICARET2.txt
S14L414761 1344027280	LEVANAIRA LYCOMINGAIBA	02/19/2021	W	1061	Invalid or Empty Ethnicity Code	PID^1^22	03/03/2025 10:20:30	Web_Service.C:\bba32cd3_ICARET2.txt
S14L414761 1344027280	LEVANAIRA LYCOMINGAIBA	02/19/2021	W	1060	Invalid or Empty Race Code	PID^1^10	03/03/2025 10:20:30	Web_Service.C:\bba32cd3_ICARET2.txt
V30G414873 1344027325	CORINAIRA ISADORA JUNGSTROINAI	12/31/2020	E	1052	Invalid CVX/NDC code Patient Shot Record # 1 - Shot CVX and NDC Codes are Empty or Invalid. Shot has been Ignored.	RXA^1^5	03/03/2025 10:21:12	Web_Service.C:\d9976cb_ICARET2.txt
W08X414667 1344027197	QUINNAIRA DARINKA GEUGAIBIRA	12/31/2020	W	1064	MXV code is Empty. Changed to UNK	RXA^1^17	03/03/2025 10:19:09	Web_Service.C:\e7029be5_ICARET2.txt
X39C414774 1344027285	BRYANNAIRA VAN ZANDTAIRA	02/19/2021	W	1064	MXV code is Empty. Changed to UNK	RXA^1^17	03/03/2025 10:20:42	Web_Service.C:\9a522d75_ICARET2.txt
X39C414774 1344027285	BRYANNAIRA VAN ZANDTAIRA	02/19/2021	W	1016	Empty Address Line 1. Address Record Ignored	PID^1^11^1^1	03/03/2025 10:20:42	Web_Service.C:\9a522d75_ICARET2.txt
X39C414774 1344027285	BRYANNAIRA VAN ZANDTAIRA	02/19/2021	W	1061	Invalid or Empty Ethnicity Code	PID^1^22	03/03/2025 10:20:42	Web_Service.C:\9a522d75_ICARET2.txt
X39C414774 1344027285	BRYANNAIRA VAN ZANDTAIRA	02/19/2021	W	1060	Invalid or Empty Race Code	PID^1^10	03/03/2025 10:20:42	Web_Service.C:\9a522d75_ICARET2.txt
Z78X414696 1344027218	YOORALLAIRA WINTERMANAIRA	02/21/1993	W	1064	MXV code is Empty. Changed to UNK	RXA^3^17	03/03/2025 10:19:32	Web_Service.C:\17542997_ICARET2.txt
Z78X414696 1344027218	YOORALLAIRA WINTERMANAIRA	02/21/1993	W	1064	MXV code is Empty. Changed to UNK	RXA^2^17	03/03/2025 10:19:32	Web_Service.C:\17542997_ICARET2.txt

- b. **PDF Report:** This report cannot be sorted, but it does contain embedded links to I-CARE Patient Record and raw HL7 message

HL7 Errors Report

Print Report for Site ICARE TRAINING SITE1
 Errors Reported on Dates from 03/01/2025 to 03/04/2025

Printing Report Date: 3/12/2025 9:17 AM



MRN Patient_ID	Patient Name	Date of Birth	Error Type	Error ID	Error Description	HL7 Field	Error Date/Time	Source HL7 File
301773 134402691 0	--	--	W	1063	Invalid Administered Flag. Adm. Flag should be equal 00(Administered) or 01(Historical). Changed to 01	RXA^1 ^9	03/04/2025 17:06:51	Web_Service.Cfd 3c4370_888IZG.t xt
301773 134402691 0	--	--	W	1063	Invalid Administered Flag. Adm. Flag should be equal 00(Administered) or 01(Historical). Changed to 01	RXA^1 ^9	03/04/2025 17:06:40	Web_Service.C.1 cac4799_888IZG. txt
301773 134402691 0	--	--	W	1063	Invalid Administered Flag. Adm. Flag should be equal 00(Administered) or 01(Historical). Changed to 01	RXA^1 ^9	03/04/2025 17:06:15	Web_Service.C.d ceab747_888IZG. txt
301773 134402691 0	--	--	E	1052	Invalid CVX/NDC code Patient Shot Record # 1 - Shot CVX and NDC Codes are Empty or Invalid. Shot has been Ignored.	RXA^1 ^5	03/04/2025 17:05:42	Web_Service.C.1 d717de6_888IZG .txt
301773 134402691 0	--	--	W	1063	Invalid Administered Flag. Adm. Flag should be equal 00(Administered) or 01(Historical). Changed to 01	RXA^1 ^9	03/04/2025 17:05:37	Web_Service.C.2 e76244f_888IZG. txt

- c. **CSV Export:** This will download the report as an Excel file which does not contain embedded links to I-CARE Patient Records and raw HL7 messages. You can use this for more in-depth review of HL7 errors by utilizing tools in Excel such as Pivot Tables.

Print For	From Date	To Date	Error Id List										
Site	3/1/2025	3/4/2025											
Site Id	Site Name	MRN	Patient Id	Patient Name	Date of Birth	Error/Warning	Error Id	Error Description	HL7 Field	Error Date/Time	Source HL7 File		
1103	ICARE TRAINING SITE1	301773	1.344E+09	--	--	W	1063	Invalid Administered Flag. Adm. Flag should be equal 00(Administered) or 01(Historical). Changed to 01	RXA^1^9	3/4/2025 17:06	Web_Service.C.fdc4370_888IZG.txt		
1103	ICARE TRAINING SITE1	301773	1.344E+09	--	--	W	1063	Invalid Administered Flag. Adm. Flag should be equal 00(Administered) or 01(Historical). Changed to 01	RXA^1^9	3/4/2025 17:06	Web_Service.C.1cac4799_888IZG.txt		
1103	ICARE TRAINING SITE1	301773	1.344E+09	--	--	W	1063	Invalid Administered Flag. Adm. Flag should be equal 00(Administered) or 01(Historical). Changed to 01	RXA^1^9	3/4/2025 17:06	Web_Service.C.dceab747_888IZG.txt		
1103	ICARE TRAINING SITE1	301773	1.344E+09	--	--	E	1052	Invalid CVX/NDC code	RXA^1^5	3/4/2025 17:05	Web_Service.C.1d717de6_888IZG.txt		
1103	ICARE TRAINING SITE1	301773	1.344E+09	--	--	W	1063	Invalid Administered Flag. Adm. Flag should be equal 00(Administered) or 01(Historical). Changed to 01	RXA^1^9	3/4/2025 17:05	Web_Service.C.2ce76244f_888IZG.txt		
1103	ICARE TRAINING SITE1	301773	1.344E+09	--	--	W	1063	Invalid Administered Flag. Adm. Flag should be equal 00(Administered) or 01(Historical). Changed to 01	RXA^1^9	3/4/2025 17:05	Web_Service.C.36894176_888IZG.txt		
1103	ICARE TRAINING SITE1	301773	1.344E+09	--	--	W	1063	Invalid Administered Flag. Adm. Flag should be equal 00(Administered) or 01(Historical). Changed to 01	RXA^1^9	3/4/2025 17:05	Web_Service.C.c0cd7394_888IZG.txt		
1103	ICARE TRAINING SITE1	301773	1.344E+09	--	--	W	1063	Invalid Administered Flag. Adm. Flag should be equal 00(Administered) or 01(Historical). Changed to 01	RXA^1^9	3/4/2025 17:05	Web_Service.C.dceab747_888IZG.txt		
1103	ICARE TRAINING SITE1	239363	1.344E+09	--	--	W	1065	Historical Dose Given on Submission Date	RXA^1^3	3/4/2025 15:11	Web_Service.C.fbf97e4_888IZG.txt		
1103	ICARE TRAINING SITE1	239363	1.344E+09	--	--	W	1064	MVX code is Empty. Changed to UNK	RXA^1^17	3/4/2025 15:11	Web_Service.C.fbf97e4_888IZG.txt		
1103	ICARE TRAINING SITE1	239363	1.344E+09	--	--	W	1021	Invalid Telecom Location Code	PID^1^13^2^3	3/4/2025 15:11	Web_Service.C.fbf97e4_888IZG.txt		
1103	ICARE TRAINING SITE1	239363	1.344E+09	--	--	W	1021	Invalid Telecom Location Code	PID^1^13^2^3	3/4/2025 15:11	Web_Service.C.fbf97e4_888IZG.txt		
1103	ICARE TRAINING SITE1	239363	1.344E+09	--	--	W	1060	Invalid or Empty Race Code	PID^1^10	3/4/2025 15:11	Web_Service.C.fbf97e4_888IZG.txt		
1103	ICARE TRAINING SITE1	239363	1.344E+09	--	--	W	1065	Historical Dose Given on Submission Date	RXA^1^3	3/4/2025 15:11	Web_Service.C.3ae301ac_888IZG.txt		
1103	ICARE TRAINING SITE1	239363	1.344E+09	--	--	W	1064	MVX code is Empty. Changed to UNK	RXA^1^17	3/4/2025 15:11	Web_Service.C.3ae301ac_888IZG.txt		
1103	ICARE TRAINING SITE1	239363	1.344E+09	--	--	W	1021	Invalid Telecom Location Code	PID^1^13^2^3	3/4/2025 15:11	Web_Service.C.3ae301ac_888IZG.txt		
1103	ICARE TRAINING SITE1	239363	1.344E+09	--	--	W	1021	Invalid Telecom Location Code	PID^1^13^2^3	3/4/2025 15:11	Web_Service.C.3ae301ac_888IZG.txt		
1103	ICARE TRAINING SITE1	239363	1.344E+09	--	--	W	1060	Invalid or Empty Race Code	PID^1^10	3/4/2025 15:11	Web_Service.C.3ae301ac_888IZG.txt		

HL7 Error Log Review

- ★ To be reviewed AFTER “How to Run the HL7 Error Log”

The most important thing for anyone reviewing this report to remember is that Error Type = E means that this particular shot was ignored by I-CARE due to a critical Error. Any shots that have an error need to be resubmitted to I-CARE; otherwise, they will never make it into I-CARE and will not be on the patient’s immunization record.

CDPH recommends sorting/filtering your HL7 Error Log and always reviewing Errors first (Error Type = E)

Every Error and Warning has an Error ID: a string of 4 numbers I-CARE uses to identify HL7 Errors and Warnings

After you have separated out any HL7 Errors, review the Error Descriptions for these shots. This will tell you the reason why the shot was ignored by I-CARE in plain language.

The “HL7 Field” row will tell you exactly where in the HL7 message the Error or Warning is located. For example, if HL7 Field = RXA^1^9 that means the Error or Warning is located in the first RXA segment in the ninth field. This is helpful for determining exactly what the cause of an HL7 Error or Warning is.

You can view the Error Date/Time; this will tell you exactly when I-CARE encountered the HL7 Error or Warning.

Reviewing HL7 Errors

Any shots with an HL7 Error (Error Type = E) will need to be resubmitted to I-CARE if they have not already been. An HL7 Error indicates that a shot was ignored by I-CARE.

- ★ This guide starts off assuming the individual has already pulled their HL7 Error Log and separated out any Errors

1. Pull up the patient record of the individual with an HL7 Error and navigate to the “Import” tab. Find the import with the same Date/Time as the Error Date/Time on the HL7 Error Log and click the + to see the shot that was entered with an Error:

The screenshot shows the I-CARE patient record for WOTHERSPOONAIRA, LUCIANAIRA HONORA. The patient's information includes DOB: 01/07/2021, Age: 4y 2m 5d, and ID: 1344028404. The interface has tabs for Patient, Contacts, Shots, ID Numbers, Medical, Reports, Dups, Import (1), and Opt-Out. The 'Import (1)' tab is active, displaying a table with one entry:

Msg #	Errors	Import on	Import by	External Id	Priority	Processed	From	File Name	Seq #
1		3/10/2025 10:01:39 AM	ICARE TRAINING SITE1	M76Z58836	High	Processed	HL7	Web_Service.C:82923799_ICARET2.txt	1

Below the table, the HL7 Version is 2.5.1. A patient information table is also visible:

MRN	Name	DOB	Language	Nationality	Race	Ethnicity	Sex	Status	VFC Code	Moth's Maiden
M76Z58836	LUCIANAIRA HONORA WOTHERSPOONAIRA	01-07-2021			White	Not Hispanic or Latino	Female	Active		SAVOKOAIIRA ALLENAIRA

Additional details include Permanent Address: 1589 WEST ST, TREETOPS VILLAGE IL 49735- and Telephone: 9897603766. At the bottom, a table shows vaccine information:

Site	Vaccine	Dosage	Imm Date	Lot	VFC	Prov	Vacc	Rte/Ste	Adm	RXA-11:
ICARE TRAINING SITE1	21 / UNK (Varicella)	999	01-07-2025							01

A link to '+ Show [RAW data]' is provided at the bottom left of the vaccine table.

2. Once you have the name of the shot, navigate to the “Shots” tab. Review the shots to see if the shot appears on the patient record:

Home Patients Site Reports Admin

Patient: WOTHERSPOONAIRA, LUCIANAIRA HONORA [DOB: 01/07/2021 Age: 4y 2m 5d] 1344028404

Patient Contacts Shots ID Numbers Medical Reports Dups Import (1) Opt-Out

Select View: Shots: Status - Add Shot(s) Delete Selected Shots Remove Duplicates Reports -

Immunization Due: DTP, Hib, HAV, HBV, Flu, MMR, PNE, POL, COVID-19

Group	# Vaccine	Lot Number	Date	Status	Reporting Site
DTP	DTP	Earliest: 02/18/2021 OverDue: 05/04/2021	03/07/2021	Due	--
Hib	Hib	Earliest: 01/07/2022 OverDue: 06/01/2022	04/07/2022	Due	--
HAV	HAV	Earliest: 01/07/2022 OverDue: 02/01/2023	01/07/2022	Due	--
HBV	HBV	Earliest: 02/04/2021 OverDue: 05/04/2021	03/07/2021	Due	--
HPV	HPV	Earliest: 01/07/2030 OverDue: 02/01/2034	01/07/2032	Due Later	--
Flu	Flu	Earliest: 07/01/2024	07/01/2024	Due	--
MMR	MMR	Earliest: 02/04/2025 OverDue: 02/04/2025	02/04/2025	Due	--

If the shot DOES appear on the record, no further action is needed.

If the shot DOES NOT appear on the record, the shot will need to be resubmitted to I-CARE either manually or via your EHR.

If you have any questions regarding any HL7 Errors, Warnings, or your HL7 interface/connection in general, please reach out to CDPH.HL7@cityofchicago.org or joseph.king2@cityofchicago.org