

## MCIR HL7 Transfer Report Tip Sheet

### Defining and Generating the HL7 Transfer Report

The HL7 Transfer Report details HL7 immunization transactions and inventory transaction effects for a specified time period. To generate this report complete the following steps:

#### **Report Generation**

- 1) On the MCIR home page, click the “Reports” tab, and then click “Transfer”.
- 2) The **HL7 Transfer Report** is the default report, it displays automatically.
  - a. Type in the desired date parameters under start date & end date.
  - b. Type in a descriptive name for the report (such as the specified date range).
  - c. Click Submit.

#### **Report Retrieval**

1. On the MCIR home page, click the “Reports” tab, and then click “Retrieve Results”.
2. From the retrieve results screen, click the Report link to the right of the report you wish to view.

### Section One - MCIR HL7 Transfer Report

This section displays a numerical summary of transactions submitted, accepted, rejected, duplicated and skipped.

Text	Explanation	Effect/Issue	How to Fix
<b>Persons Added/Updated</b>	Number of people with new MCIR records created or current MCIR records updated	<ul style="list-style-type: none"> <li>• EHR immunization Data transferred successfully into MCIR</li> <li>• New records created for people not matched in MCIR</li> </ul>	N/A
<b>Persons Opted Out</b>	Number of people for whom MCIR record has been marked as opted out.	<ul style="list-style-type: none"> <li>• Doses do not go into MCIR record</li> <li>• Doses do not deduct from inventory</li> </ul>	<ul style="list-style-type: none"> <li>• Providers with inventories in MCIR should complete the MCIR Opted Out transaction to deduct doses.</li> <li>• Opted out doses should also be added in MCIR under <b>Add Non-Reported Administrations</b> to be counted on the VFC Doses Administered report.</li> </ul>
<b>Persons Deceased</b>	Number of people for whom MCIR record has been marked as Deceased	<ul style="list-style-type: none"> <li>• Doses do not go into MCIR</li> <li>• Doses do not deduct from inventory</li> </ul>	Contact Region Help Desk if question that person is really deceased and data needs to be added to record.
<b>Multiple Persons found</b>	Found more than one MCIR record with the same name, DOB and/or demographic information.	<ul style="list-style-type: none"> <li>▪ Data did not go into MCIR because it could not determine which record was the correct person.</li> <li>▪ Data did not deduct from inventory</li> </ul>	<ul style="list-style-type: none"> <li>▪ Check Summary Report for user and/or system errors to identify person(s) with multiple records</li> <li>▪ Correct errors in EHR/MCIR.</li> <li>▪ Mark duplicate MCIR records to be merged by Region help desk</li> <li>▪ If EHR does not send corrections, also correct in MCIR.</li> </ul>

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Text	Explanation	Effect/Issue	How to Fix
<b>Persons not found for Update</b>	Number of persons not matched in MCIR	<ul style="list-style-type: none"> <li>▪ Unable to update MCIR record</li> </ul>	<ul style="list-style-type: none"> <li>▪ Check person DOB, name and demographic information is correct in EHR</li> <li>▪ Check Summary Report for related error messages</li> </ul>
<b>Other Persons Errors</b>	Number of other types of errors that occurred	<ul style="list-style-type: none"> <li>▪ Data prevented from going into MCIR because of system or user errors in EHR</li> </ul>	<ul style="list-style-type: none"> <li>▪ Check Summary Report for identified System/User errors</li> <li>▪ If EHR sends Edits, correct errors in EHR to send corrections to MCIR</li> <li>▪ If EHR does not send edits, enter correct data into MCIR records.</li> </ul>
<b>Persons Rejected</b>	Total number of persons for whom EHR data was not sent because of errors under People	<ul style="list-style-type: none"> <li>▪ Data did not go into MCIR because of various People errors listed</li> </ul>	<ul style="list-style-type: none"> <li>▪ Check Summary Report for listed errors in People section.</li> </ul>
<b>Responsible Party Added</b>	Number updates made to the Responsible Party information in MCIR record(s)	<ul style="list-style-type: none"> <li>▪ Responsible Party information was successfully updated</li> </ul>	N/A
<b>Responsible Party Rejected</b>	Responsible Party information was rejected because of an error	<ul style="list-style-type: none"> <li>▪ Responsible party information did not go into MCIR record(s)</li> <li>▪ May cross reference to person(s) that were counted under Persons Rejected</li> </ul>	<ul style="list-style-type: none"> <li>▪ Check system/user error messages in Summary Report</li> <li>▪ If EHR sends edits, correct and resend to MCIR</li> <li>▪ If EHR does not send edits, also correct in MCIR record</li> </ul>
<b>Immunizations Added</b>	Number of immunization record submissions that processed successfully into MCIR <i>including historical and/or vaccine refusals.</i>	<ul style="list-style-type: none"> <li>▪ EHR vaccine data transferred successfully into MCIR</li> <li>▪ <b>Includes New Administered, Historical, and/or Vaccine Refusals if sent</b></li> </ul>	N/A
<b>Immunizations Deleted</b>	Number of deleted dose(s) in MCIR record(s) from edits sent from EHR	<ul style="list-style-type: none"> <li>▪ Doses are removed from MCIR records</li> <li>▪ Doses are added back into inventories if present</li> </ul>	<ul style="list-style-type: none"> <li>▪ Providers with inventories should review Deletes listed on the VIM Transaction report under Successful Transactions</li> </ul>
<b>Immunizations skipped having Person errors</b>	Number of Immunization doses that did not transfer into MCIR because of errors	<ul style="list-style-type: none"> <li>▪ MCIR records were not updated with doses</li> </ul>	<ul style="list-style-type: none"> <li>▪ Check system/user error messages in Summary Report</li> <li>▪ If EHR sends edits, correct and resend to MCIR</li> <li>▪ If EHR does not send edits, also correct in MCIR record</li> </ul>
<b>Immunization Accepted</b>	Number of immunization record submissions that processed successfully into MCIR <i>including historical and/or vaccine refusals.</i>	<ul style="list-style-type: none"> <li>▪ EHR vaccine data transferred successfully into MCIR</li> <li>▪ <b>Includes New Administered, Historical, and/or Vaccine Refusals if sent</b></li> </ul>	N/A
<b>Immunizations Rejected</b>	Number of immunization doses that MCIR would not accept	<ul style="list-style-type: none"> <li>▪ Doses were rejected because of error(s) in data sent</li> </ul>	<ul style="list-style-type: none"> <li>▪ Check system/user error messages in Summary Report</li> <li>▪ If EHR sends edits, correct and resend to MCIR</li> <li>▪ If EHR does not send edits, also correct in MCIR record</li> </ul>
<b>Duplicate Immunizations</b>	Immunization data sent from EHR matched doses already in the MCIR record	<ul style="list-style-type: none"> <li>▪ Prevents duplicate doses in MCIR records</li> </ul>	N/A
<b>Total Immunizations processed</b>	Total number of doses processed by MCIR	<ul style="list-style-type: none"> <li>▪ Counts all doses processed with or without errors, skipped/rejected/duplicated</li> </ul>	<ul style="list-style-type: none"> <li>▪ Check system/user error messages in Summary Report for more information</li> </ul>

## MCIR HL7 Transfer Report Tip Sheet

### Dictionary of Common HL7 Errors Found in Section Two (Errors from Transferred Data) and Section Three (User Errors)

These sections detail errors that occurred either from an end user data entry error in the EHR or through programming errors made in the EHR HL7 transmission programming. The following table lists examples of error types with an explanation of what they mean and how to fix them.

Error Text	Explanation	How to fix in an EHR that sends <u>Electronic Edits (Deletes &amp; Adds)</u>	How to fix in an EHR that sends <u>only Add-type messages</u>
Vaccine for this lot is Influenza TIV Injectable (141) which does not match the vaccine submitted on this record which was Influenza TIV P-Free Inj (140).	The lot number sent with the HL7 message indicates a different vaccine than the one that was sent in the HL7 message. In this particular example: Influenza TIV Injectable CVX Code: 141 are indicated by the lot number sent, but CVX Code: 140 Influenza TIV P-Free is the code that came through. MCIR picks up the mismatch and does not process the message with the conflicting data.	Enter the correct vaccine type in the EHR. The corrected vaccine will be sent to MCIR.	Enter the correct vaccine directly in MCIR.
No record to delete for the child 01234567890, vaccine code: 114 and shot date: 20120412	There wasn't a record to delete in MCIR, no action was taken.	No action needed.	Not applicable.
MCIR Id: 01234567890 Unable to delete dose. More than one record having vaccine Hep B (adult) (43) and shot date: 20120416 has been found	Duplicate shot with conflicting lot number information cannot be deleted.	Identify the lot number that was administered. In MCIR: delete the inaccurate immunization(s) from the patient's Immunization History screen. If necessary, in the EHR click Submit/Accept to trigger an HL7 message, to send the correct data to MCIR.	Delete the incorrect immunization from the patient's Immunization History screen in MCIR. Make the correction to the lot number in the EHR so that it matches a lot number in the active MCIR inventory, this will generate submission to MCIR.
LName,FName DOB CHILD_WAIVER_PROCESSING.P_INSERT_CHILD_WAIVER: waiver record already exists with this status for childseries_id: 01234567890- 28	The date of a previously reported waiver/titer was updated in the EHR. At this time, MCIR only supports one waiver type per vaccine series.	The update can be made by manually deleting the waiver on the MCIR record then resubmitting the message from the EHR with the updated date.	The update can be made by manually deleting the waiver on the MCIR record then resubmitting the message from the EHR with the updated date.
LName,FName, Shot Date Status: Shot Date cannot be less than birth date	Immunizations sent from the EHR indicate an administration date that is prior to the person's date of birth.	Immunizations cannot be reported for an individual before they were born. Verify the birthdate and vaccine administration date and correct in the EHR.	Immunizations cannot be reported for an individual before they were born. Verify the birthdate and vaccine administration date and correct in the EHR.

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<p>Manufacturer MSD not found for vaccine code: 114                      Manufacturer MSD not found for Vaccine Code: 48                      Manufacturer PMC not found for Vaccine Code: 133                      Manufacturer SKB not found for Vaccine Code: 114</p>	<p>These are examples of invalid matches between the vaccine and manufacturer code.</p>	<p>Correct the manufacturer in the EHR. A table of valid Manufacturers/MVX codes is available:  <a href="#">CDC HL7 Standard Code Set</a>  <a href="#">MCIR Vaccine Codes PDF</a>  <a href="#">MCIR Vaccine Codes XLS file found on HL7 webpage</a></p>	<p>Correct the manufacturer in the EHR. A table of valid Manufacturers/MVX codes is available:  <a href="#">CDC HL7 Standard Code Set</a>  <a href="#">MCIR Vaccine Codes PDF</a>  <a href="#">MCIR Vaccine Codes XLS file found on HL7 webpage</a></p>
<p>CHILD_VACCINE_PKG.P_DELETE_CHILD_VACCINE - error returned from p_batch_vim_trans: VIM_TRANS_EXPORT_BATCH. P_BATCH_VIM_TRANS: Incorrect client id (3). Must be provider transfer.</p>	<p>This error illustrates that a delete message was sent that attempted to remove a record that was not reported with an HL7 interface. This operation is not currently allowed.</p>	<p>The user must log into MCIR to delete the dose.</p>	<p>Not applicable, this error will only occur if the EHR sends delete records.</p>
<p>VIM Transactions Report: Failed VIM Transactions (see Section Four of this tip sheet)</p>	<p>Vaccine did not deduct from inventory.</p>	<p>Make the correction to the lot number in the EHR and the corrected lot number will upload to MCIR.</p>	<p>Delete the incorrect immunization from the patient's Immunization History screen in MCIR. Then make the correction to the lot number in the EHR so that it matches a lot number in your active MCIR inventory. The corrected vaccine will be sent to MCIR and the end result will be a successful VIM transaction.</p>
<p>LName, FName DOB                      Error in p_process_patient This site already has patient id 422X already assigned in the Default record system to child_id 21282379122</p>	<p>MCIR did not process the information because, in this case, the DOB on the HL7 message was different than what was documented on the MCIR record. This error will show up if there is conflicting information on the MCIR record that has the same Patient ID# assigned to it.</p>	<p>Find out what the correct DOB is. If MCIR has the correct DOB, make that change in the EHR. The message with the corrected information will upload to MCIR.</p>	<p>Find out what the correct DOB is. If MCIR has the correct DOB, change the DOB in the EHR. If MCIR has the incorrect DOB, submit a Petition for Modification form to the region, the region will change the DOB in MCIR when the form is processed.</p>
<p>CHILD NOT FOUND</p>	<p>MCIR did not process the information because the EHR sent a Delete message for a person that was never added to MCIR. Example, person may have been scheduled to receive a vaccine but changed their mind. When the vaccine was deleted from the EHR a Delete message was sent.</p>	<p>Verify that the person did not receive a vaccine.</p>	

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Error Text	Explanation	How to fix in an EHR that sends <u>Electronic Edits (Deletes &amp; Adds)</u>	How to fix in an EHR that sends <u>only Add-type messages</u>
Responsible party area code	<p>There is an incorrect value in the area code field. For example: the letter (o) instead of the number zero (0) was entered into the area code field.</p> <p>Note: when this error type occurs, the inability to add the responsible party prevents the immunization data from being entered as well.</p>	Correct the area code in the EHR, this will trigger resubmission to MCIR.	Update the area code in the EHR. If the EHR does not have the ability to generate a new message when the address information is updated, update the area code directly in MCIR.
Patient Id: XXXXX <ul style="list-style-type: none"> <li>• Responsible party street name must be present to add a child and/or an immunization.</li> <li>• Responsible party city name must be present to add a child and/or an immunization.</li> <li>• Responsible party state must be present to add a child and/or an immunization.</li> <li>• Responsible party zip must be present to add a child and/or an immunization.</li> </ul>	<p>This error occurs when an EHR allows the vaccine administration to be entered prior to population of the address information and the vaccine data population triggers the HL7 message to be sent to MCIR.</p> <p>This situation may occur when a hospital's workflow process is that the person administering the vaccine is not the same person that updates the patient's address.</p>	Provider staff will not need to manually enter the patient's information into MCIR if the EHR sends Delete (edit) messages. The EHR system will re-trigger an updated message once the address information is added to the record.	Provider staff may need to manually enter the patient's information into MCIR if the EHR does not have the ability to generate a new message when the address information is added t the EHR.
p_post_resp_party: OTHERS exception - ORA-06502: PL/SQL: numeric or value error: character string buffer too small	<p>This error occurs when a zip code is sent using an invalid HL7 standard format.</p> <ul style="list-style-type: none"> <li>• Incorrect: NNNNN NNNN</li> <li>• Correct: NNNNN[-NNNN]</li> </ul> <p>If a 10 digit number is sent it must include a hyphen between the sets of numbers.</p> <p>The vaccine data will process on the MCIR person record but the demographic data will not get updated.</p>	<ul style="list-style-type: none"> <li>▪ Correct the zip code in the EHR and resend the message. Or, if necessary:</li> <li>▪ Staff may need to contact their EHR Vendor or Medical Care Organization IT Support Team if a "system" fix need to be done to correct the problem.</li> </ul>	Log into MCIR and manually update the person's address information.
Error in p_process_patient Error ORA-00001: unique constraint (MCIR.CHILD_RECORD_SYSTEM_XAK2) violated ORA-01403: no data found	<p>This error means that the vaccine did not process in MCIR.</p> <p>Note: error won't occur with EHR systems that bundle patient's vaccines into one message. This error may occur if separate messages are sent for the same patient and MCIR receives them through the queues at the same time for processing.</p>	<ul style="list-style-type: none"> <li>▪ Resend the message from the EHR.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Hand enter missing vaccine information.</li> </ul>

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<p>Child first name BABY GIRL</p> <p>The First Name should not be MASKED value :BABY GIRL</p>	<p>This error may be found under a birthing hospital site of which <u>end users can ignore.</u></p> <p>MCIR has a built in filter to not accept birth records with the word "Baby" in the first name field or records containing Baby Boy/Girl.</p> <p>Birthing Hospitals that submit a vaccine record for newborns are instructed to use Baby Boy or Baby Girl as their First Name if they do not have a legal name at the time of the vaccination.</p>	<p>Newborn records get uploaded in MCIR via Vital Records using hospital EBC (Electronic Birth Certificate) software along with their Hep B birth dose if applicable.</p> <p>If a hospital EHR system has the ability to prevent the record from getting sent to MCIR until the newborn legal name is added, that record will merge with the EBC record.</p>	
<p>Patient Id: XXXXXX: Vaccine 999 Vaccine_Num : code 999 is not in table of valid codes</p>	<p>This errors occurs if the message sent an invalid CVX Vaccine Code in RXA-5: Administered Code, Position #1: Identifier.</p> <p>MCIR accepts vaccinations reported using CVX codes. CVX codes are assigned by the CDC.</p>	<p>Edit the vaccine in the EHR.</p>	<p>Hand enter the vaccine information directly in MCIR.</p>
<p>Error inserting resp party Patient Record is Inserted</p>	<p>This error may periodically show up in the Onboarding Testing database.</p> <p>This error would be a very rare, if ever, occurrence in Production.</p>	<p>Onboarding Error: Ignore</p> <p>Production Error: Hand enter into MCIR or resend message from EHR</p>	<p>Onboarding Error: Ignore</p> <p>Production Error: Hand enter into MCIR or resend message from EHR</p>
<h3>Section Four – Transferred VIM Transactions</h3>			
<p>This section displays administered immunizations transactions by patient in two separate sections.</p> <ol style="list-style-type: none"> <li>1. <b>Successful transaction section:</b> displays immunizations that <b>did</b> deduct from the inventory</li> <li>2. <b>Failed transaction section:</b> displays immunizations that <b>did not</b> deduct from the Inventory.</li> </ol> <p>The report displays the following fields for each transaction:  <b>Admin Date, Product – Lot, Eligibility, Action and Inventory.</b></p> <p>The Action column indicates the effect (add/delete) the transaction made on the inventory. The Inv. Column displays the specific inventory affected by the transaction.</p>			

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Error Text	Explanation	How to fix in an EHR that sends <u>Electronic Edits (Deletes &amp; Adds)</u>	How to fix in an EHR that sends <u>only Add-type messages</u>
Michigander, Mary - 09/12/1998 - 30007867750 02/10/2014 Hep B (ped/adol) (Merck) - J008570 <b>Status: Lot not found in inventory</b> Eligibility: Medicaid-VFC Action: Add Inventory: VFC	<ul style="list-style-type: none"> <li>▪ Lot number could not be found in inventory for this vaccine and did not deduct a dose</li> <li>▪ Dose was sent into MCIR record as a No Inventory dose</li> </ul>	<ul style="list-style-type: none"> <li>▪ If lot number, manufacturer or vaccine was entered wrong into EHR record, correct in EHR and submit. Edit will be sent to MCIR record and deduct dose from inventory</li> </ul>	<ul style="list-style-type: none"> <li>▪ Correct entry in EHR record</li> <li>▪ Manually correct entry in MCIR record</li> </ul>

Please contact your regional MCIR help desk if you have any questions about this information:

<https://www.mcir.org/providers/regional-coordinators/contact-regions/>