Measure Name	Childhood Immunization Status: MMR			
Relevance	NPO Population Clinical Quality Dashboard [NQF 0038-8: Pediatric Measure]			
Measure Definition	The percentage of children, 2 years of age, who were administered one Measles, Mumps and Rubella (MMR) vaccine by the time of their second birthday			
Measurement Period	The <b>Measurement Period</b> is defined as the current calendar year (January 1 to December 31)			
	The <b>Denominator</b> consists of patients who:			
Denominator	<ul> <li>I. Are ≥ 1 year of age before the start of the Measurement Period</li> <li>II. AND, Turn 2 years of age before the end of the Measurement Period</li> <li>III. AND, Are seen for an applicable E&amp;M visit during the Measurement Period</li> </ul>			
Numerator	The <b>Numerator</b> consists of patients, from the Denominator, who have been administered one instance of the MMR vaccine by the time the patient turns 2 years of age			
	Patients are <b>excluded</b> from this measure for one of the following reasons:			
Exclusion and/or Exception Documentation	<ul> <li>I. They have an active diagnosis for a Disorder of the Immune System (≤ 2 years of age)</li> <li>II. OR, They have an active diagnosis for HIV (≤ 2 years of age)</li> <li>III. OR, They have an active diagnosis for Malignant Neoplasm of Lymphatic Tissue (≤ 2 years of age)</li> <li>IV. OR, They have had an anaphylactic reaction to Neomycin (≤ 2 years of age)</li> <li>V. OR, They have had:</li> </ul>			
	<ul> <li>An active, or resolved, diagnosis for Measles (≤ 2 years of age)</li> <li>OR, An IgG antibody titer ≥ 1.10 for the Measles antibody test (≤ 2 years of age)         (continued)</li> </ul>			

Measure Name	Childhood Immunization Status: MMR (continued)				
Exclusions and/or Exceptions	<ul> <li>C. OR, A Positive result (for IgG antibody presence) for the Measles antibody test (≤ 2 years of age)  AND  D. An active, or resolved, diagnosis for Mumps (≤ 2 years of age)  E. OR, An IgG antibody titer ≥ 1.10 for the Mumps antibody test (≤ 2 years of age)  F. OR, A Positive result (for IgG antibody presence) for the Mumps antibody test (≤ 2 years of age)  AND  G. An active, or resolved, diagnosis for Rubella (≤ 2 years of age)  H. OR, An IgG antibody titer ≥ 1.10 for the Rubella antibody test (≤ 2 years of age)  I. OR, A Positive result (for IgG antibody presence) for the Rubella antibody test (≤ 2 years of age)</li> </ul>				
Measure Documentation	To Qualify For This Measure (Denominator Documentation)  The patient must be seen for an applicable visit encounter during the Measurement Period  A. The following E&M codes identify applicable visit enounters  1. 99201 - 99205 and 99212 - 99215 2. 99341 - 99345, 99347 - 99350, 99381 - 99384 and 99391 - 99394  B. Record the appropriate E&M code in the Billing section of the Progress Note for the visit (Progress Notes → Billing)				
	To Satisfy This Measure  (Numerator Documentation)  Document the administration/receipt of this vaccine in the "Immunizations/T. Injections" section of the patient's chart in eCW, as follows:  (continued)				

Measure Name	Childhood Immunization Status: MMR (continued)			
	A. If the vaccine is administered in your office:			
Measure Documentation (continued)				
	6. Note: Vaccines marked "Given in the Past" should not push to MCIR			
	(continued)			

Measure Name	Childhood Immunization Status: MMR (continued)				
	<u>To Exclude Patients From This Measure</u> (Exclusion and/or Exception Documentation)				
	I. If the vaccine should not be administered because the patient has an active diagnosis for a Disorder of the Immune System				
	A. Document the non-administration of the vaccine in the "Immunizations/T. Injections" section of the patient's chart in eCW, as follows:				
<ol> <li>Access the "Immunizations/T. Injections" window from an open Progress Note, Virtual Visit, or from 2. Click "Add" to open the "Immunization Details" window</li> <li>Select the MMR vaccine from the left-hand panel</li> <li>In the right-hand panel:</li> </ol>					
Exclusion and/or Exception Documentation	a. Change the "Status" to Not Administered b. Click the selection button (with three dots) for the "Reason" field  1) A "Select reason for not administered" window will open				
Documentation	<ul><li>2) Type "Diagnosis of a Disorder of the Immune System" in the field labeled "Other"</li><li>3) Click "OK" to close the window</li></ul>				
	5. Click "OK" to exit				
	<ul> <li>a. The vaccine will display in the "Immunizations/T. Injections" section of the patient's chart with an Immunization Status of "NA" (for Not Administered)</li> <li>b. The vaccine, and the reason given for non-administration, will push to MCIR</li> </ul>				
	B. Also, document one of the following ICD-10 diagnosis codes for a Disorder of the Immune System in the Problem List of the patient's chart in eCW				
	<ol> <li>D80.0 - D80.9</li> <li>D81.0, D81.1, D81.2, D81.4, D81.6, D81.7, D81.89 and D81.9</li> <li>D82.0 - D82.4, D82.8 and D82.9</li> </ol>				
	3. D82.0 - D82.4, D82.8 and D82.9 (continued)				

Measure Name	Childhood Immunization Status: MMR (continued)			
	<ul> <li>4. D83.0 - D83.2, D83.8 and D83.9</li> <li>5. D84.0, D84.1, D84.8 and D84.9</li> <li>6. D89.3, D89.810 - D89.813, D89.82, D89.89 and D89.9</li> </ul>			
	II. If the vaccine should not be administered because the patient has an active diagnosis for HIV:			
	A. Document the non-administration of the vaccine in the "Immunizations/T. Injections" section of the patient's chart in eCW, as follows:			
	<ol> <li>Access the "Immunizations/T. Injections" window from an open Progress Note, Virtual Visit, or from the patient's Hub</li> <li>Click "Add" to open the "Immunization Details" window</li> </ol>			
	<ul><li>3. Select the <i>MMR</i> vaccine from the left-hand panel</li><li>4. In the right-hand panel:</li></ul>			
Exclusion and/or Exception Documentation (continued)	<ul> <li>a. Change the "Status" to "Not Administered"</li> <li>b. Click the selection button (with three dots) for the "Reason" field</li> <li>1) A "Select reason for not administered" window will open</li> <li>2) Type "Diagnosis of HIV" in the field labeled "Other"</li> <li>3) Click "OK" to close the window</li> </ul>			
	5. Click "OK" to exit			
	<ul> <li>a. The vaccine will display in the "Immunizations/T. Injections" section of the patient's chart with an Immunization Status of "NA" (for Not Administered)</li> <li>b. The vaccine, and the reason given for non-administration, will push to MCIR</li> </ul>			
	B. Also, document one of ICD-10 diagnosis codes for HIV (B20, B97.35 and Z21) in the Problem List of the patient's chart in eCW			
	(continued)			

Measure Name	Childhood Immunization Status: MMR (continued)			
	III. If the vaccine should not be administered because the patient has an active diagnosis for a Malignant Neoplasm of Lymphatic Tissue  A. Document the non-administration of the vaccine in the "Immunizations/T. Injections" section of the patient's chart in eCW, as follows:			
	<ol> <li>Access the "Immunizations/T. Injections" window from an open Progress Note, Virtual Visit, or from the patient's Hub</li> <li>Click "Add" to open the "Immunization Details" window</li> <li>Select the MMR vaccine from the left-hand panel</li> <li>In the right-hand panel:</li> </ol>			
	<ul><li>a. Change the "Status" to "Not Administered"</li><li>b. Click the selection button (with three dots) for the "Reason" field</li></ul>			
Exclusion and/or Exception	<ol> <li>A "Select reason for not administered" window will open</li> <li>Type "Diagnosis of Malignant Neoplasm of Lymphatic Tissue" in the field labeled "Other"</li> <li>Click "OK" to close the window</li> </ol>			
Documentation (continued)	5. Click "OK" to exit			
	<ul><li>a. The vaccine will display in the "Immunizations/T. Injections" section of the patient's chart with an an Immunization Status of "NA" (for Not Administered)</li><li>b. The vaccine, and the reason given for non-administration, will push to MCIR</li></ul>			
	B. Also, document one of the following ICD-10 diagnosis codes for a Malignant Neoplasm of Lymphatic Tissue in the Problem List of the patient's chart in eCW:			
	1. C81.00 - C81.49, C81.70 - C81.79 and C81.90 - C81.99			
	2. C82.00 - C82.69 and C82.00 - C82.99			
	3. C83.00 - C83.19, C83.30 - C83.39, C83.50 - C83.59, C83.70 - C83.99			
	4. C84.00 - C84.19, C84.40 - C84.49, C84.60 - C84.79 and C84.90 - C84.99			
	5. C84.A0 - C84.A9 and C84.Z0 - C84.Z9			
	6. C85.10 - C85.29, C85.80 - C85.99			
	(continued)			

Measure Name	Childhood Immunization Status: MMR (continued)			
	7.	C86.0 - C86.6		
	8.	C88.2 - C88.4 and C88.8 - C88.9		
	9.	C90.00 - C90.02, C90.10 - C90.12, C90.20 - C90.22 and C90.30 - C90.32		
	10.	C91.00 - C91.02, C91.10 - C91.12, C91.30 - C91.32, C91.40 - C91.42, C91.50 - C91.52, C91.60 - C91.62		
		C91.90 - C91.92, C91.A0 - C91.A2 and C91.Z0 - C91. Z2		
	11.	C92.00 - C92.02, C92.10 - C92.12, C92.20 - C92.22, C92.30 - C92.32, C92.40 - C92.42, C92.50 - C92.52		
		C92.60 - C92.62, ,C92.90 - C92.92, C92.A0 - C92.A2 and C92.Z0 - C92.Z2		
	12.	C93.00 - C93.02, C93.10 - C93.12, C93.30 - C93.32, C93.90 - C93.92 and C93.Z0 - C93.Z1		
	13.	C94.00 - C94.02, C94.20 - C94.22 and C94.30 - C94.32		
	14.	C95.00 - C95.02, C95.10 - C95.12, C95.90 - C95.92		
	15.	C96.0, C96.2, C96.4, C96.9, C96.A and C96.Z		
	IV. If the vaccine cannot	be administered because the patient has had an anaphylactic reaction to Neomycin		
Exclusion and/or				
ExceptionDocumentati	A. Document the non-administration of the vaccine in the "Immunizations/T. Injections" section of the patient's chart in eCW			
<b>on</b> (continued)				
	1. Access the "Immunizations/T. Injections" window from an open Progress Note, Virtual Visit, or from the patient's			
	2.	Click "Add" to open the "Immunization Details" window		
	3.	Select the MMR vaccine from the left-hand panel		
	4.	In the right-hand panel:		
		a. Change the "Status" to "Not Administered"		
	b. Click the selection button (with three dots) for the "Reason" field			
	A "Select reason for not administered" window will open			
	2) Type "Anaphylaxis to Neomycin" in the field labeled "Other"			
		3) Click "OK" to close the window		
	-	Click "OK" to exit		
	5.	CIICK OK LO EXIL		
		(continued)		

Measure Name	Childhood Immunization Status: MMR (continued)			
Measure Name	a. The vaccine will display in the "Immunizations/T. Injections" section of the patient's chart with an Immunization Status of "NA" (for Not Administered)  b. The vaccine, and the reason given for non-administration, will push to MCIR  B. Also, document the anaphylactic reaction to Neomycin in the "Allergies/Intolerances" section of the patient's chart in eCW  V. If the vaccine need not be administered because the patient has acquired, or demonstrated, immunity to Measles, Mumps AND Rubella  A. Document the non-administration of the vaccine in the "Immunizations/T. Injections" section of the patient's chart in eCW, as follows:			
	1. Access the "Immunizations/T. Injections" window from an open Progress Note, Virtual Visit, or from the patient's Hub			
	2. Click "Add" to open the "Immunization Details" window			
Exclusion and/or	<ul><li>3. Select the <i>MMR</i> vaccine from the left-hand panel</li><li>4. In the right-hand panel:</li></ul>			
Exception	4. In the right-hand panel.			
Documentation	a. Change the "Status" to Not Administered			
(continued)	b. Click the selection button (with three dots) for the "Reason" field			
	A "Select reason for not administered" window will open			
	2) Type "Immunity to Measles, Mumps and Rubella" in the field marked "Other"			
	a) Note: Immunity to all three disorders is required			
	b) Note: The MMR combination is not provided as an option for the "History of Immunity" field, and the ability to select multiple options, for "History of Immunity", is not available			
	3) List the immunity evidence, for each of the three disorders, in the "Comment"s section			
	a) E.g., Indicate that the patient has had the Measles, Mumps, or Rubella disease b) E.g., Indicate that the patient has had an IgG antibody titer $\geq$ 1.10 as a result for the (continued)			

Measure Name	Childhood Immunization Status: MMR (continued)		
	Measles, Mumps, or Rubella antibody test  c) E.g., Indicate that the patient has had a Positive result for the Measles, Mumps, or Rubella antibody test		
	4) Click "OK" to close the window		
	5. Click "OK" to exit		
	<ul> <li>a. The vaccine will display in the "Immunizations/T. Injections" section of the patient's chart with an Immunization Status of "NA" (for Not Administered)</li> <li>b. The vaccine, and the reason given for non-administration, will push to MCIR</li> </ul>		
Exclusion and/or	B. Also, if applicable, document an active, or resolved, diagnosis for Measles, Mumps, and/or Rubella by adding the appropriate ICD-10 diagnosis code(s) to the Problem List in the patient's chart in eCW		
Exception Documentation (continued)	<ol> <li>The following ICD-10 codes indicate Measles: B05.0 - B05.4, B05.81, B05.89 and B05.9</li> <li>The following ICD-10 codes indicate Mumps: B26.0 - B26.3, B26.81 - B26.85, B26.89 and B26.9</li> <li>The following ICD-10 codes indicate Rubella: B06.00 - B06.02, B06.09, B06.81 - B06.82, B06.89 and B06.9</li> </ol>		
	<ul> <li>C. Also, if applicable, document the result ("Positive" or IgG Antibody Titer ≥ 1.10) to a Measles, Mumps, and/or Rubella Antibody</li> <li>Test in the "Labs" section of the patient's chart in eCW, as follows:</li> </ul>		
	<ol> <li>If the Measles, Mumps, and/or Rubella Antibody Test lab order(s) has been electronically-generated <u>AND</u> resulted in your EMR, no further action is necessary</li> </ol>		
	2. Otherwise, manually generate the lab order and/or enter the lab result, as follows:		
	<ul><li>a. Access the "Labs" section of the patient's chart</li><li>b. If necessary, click "New" to create a new Lab order</li></ul>		
	<ol> <li>Click the "SEL" button, adjacent to the "Lab" search field         (continued)</li> </ol>		

Measure Name	Childhood Immunization Status: MMR (continued)			
	2) Find and select the appropriate MMR Antibody Test from the list of Lab options     c. Complete the following fields:			
	1	) Order Date		
		a) b)	If necessary, enter the date the lab was ordered Hint: if you do not know the order date, enter the date the test was performed	
Exclusion and/or	2)	Collection D	ate	
Exception Documentation (continued)	(MANDATORY)	a) b) c)	Check the box in the "Collection Date" field  Enter the date the sample was collected  Hint: If you do not know the collection date, enter the date the test was performed	
	3)	,		
	(MANDATORY)	a)	Check the "Received" box in the Results section	
	(MANDATORY) (MANDATORY)	b) c)	Enter the date the test was performed  Type the result (Positive or Negative or a numerical result) in the yellow grid	
	(MANDATORY) 4	Reviewed:	Check the "Reviewed" box	
	Having Problems? Check Out the Following Trouble-Shooting Tips			
	I. Verify that a correct CVX code has been linked with the immunization in your EMR			
Trouble-Shooting	A. One of the following CVX codes must be linked to the MMR immunization: 03 or 94			
	B. To link a CVX code to an immunization, do the following:  (continued)			

Measure Name	Childhood Immunization Status: MMR (continued)			
	1. From the EMR menu in eCW, click on "Immunizations/Therapeutic Injections"			
	2. Select "Immunizations/Therapeutic Injections" from the drop-down list of options			
	3. The "Immunizations/Therapeutic Injections" window will open			
	a. To add or update the CVX code for an existing immunization			
	Select the immunization to be modified			
	2) Click the carat next to the "New" button			
	3) Select "Update" from the drop-down list of options			
	4) The "Update Immunization" window will open			
	a) Click the "Sel" button adjacent to the "CVX Code" field			
	b) Select the appropriate CVX code from the drop-down list of options			
	c) Click "OK" to exit the window			
Trouble-Shooting (continued)	5) Click "Close" to save the information and return to the EMR menu			
	b. To add a new immunization and associated CVX code			
	1) From the "Immunizations/Therapeutic Injections" window, click the "New" button			
	2) A "New Immunization" window will open			
	a) Enter the information for the new immunization in the displayed fields			
	b) Click "OK" to exit the window			
	3) Click "Close" to save the information and return to the EMR menu			
	II. Varify that an incomprise (Chatus - Administered or Non Administered) has been decompared in the national about in the FMD			
	II. Verify that an immunization (Status = Administered or Non Administered) has been documented in the patient's chart in the EMR			
	A. If necessary, obtain the immunization information from an outside health facility or MCIR			
	(continued)			

Measure Name	Childhood Immunization Status: MMR (continued)			
	B. If applicable, provide a reason for any immunization with a Status of "Not Administered"			
	II. Verify that any applicable ICD-10 diagnosis code(s) have been added to the Problem List in the patient's chart in the EMR			
	A. Verify that the correct ICD-10 diagnosis code has been added			
	B. Add a diagnosis to the patient's Problem List in one of the following ways:			
	<ol> <li>Progress Note (or Virtual Visit) → Assessments → Problem List → Add</li> </ol>			
	2. <u>OR</u> , From the ICW (Right-Hand Chart Panel), click the "Overview" tab			
	<ul><li>a. Click the orange button (with three dots) in the Progress Note band</li><li>b. Click "Add"</li></ul>			
Trouble-Shooting (continued)	3. Helpful Tip: When adding a new diagnosis to the Problem List, enter the onset date (if known) in the associated "Onset Date" field			
	IV. Verify that the appropriate LOINC code has been associated with any applicable Lab			
	A. The Following LOINC codes must be linked to the applicable IgG Antibody Test:			
1. <b>Measles</b> : 20479-2, 35275-7, 40648-8, 41132-2 and 53536-9				
	2. <b>Mump</b> s: 22415-4, 39011-2, 40737-9, 6476-6 and 74422-7			
	3. <b>Rubella</b> : 25514-1, 39013-8, 40667-8, 40668-6, 63462-6 and 74415-1			
	B. To associate a new, or update an existing, LOINC code with a Lab, do the following:			
	1. From the EMR menu in eCW, click on "Labs, DI & Procedures"			
	Select "Labs" from the drop-down list of options     (continued)			

The "Labs" window will open      a. Find and select the appropriate lab      b. Click the "Attribute Codes" button (at the bottom of the window)	sure Name	Measure Name	Childhood Immunization Status: MMR (continued)
c. A new window specific to the selected lab will open  1) Click the "Update LOINC" button (at the bottom of the window)  2) The "Associate LOINC" window will open  a) Find and select the apprpriate LOINC code  b) Click "OK" to close the LOINC window  3) Click "OK" to exit the Lab-specific window  4. Click the X (in the top, right-hand corner) to close the "Labs" window	ole-Shooting ontinued)  V. V	Trouble-Shooting	a. Find and select the appropriate lab b. Click the "Attribute Codes" button (at the bottom of the window) c. A new window specific to the selected lab will open  1) Click the "Update LOINC" button (at the bottom of the window) 2) The "Associate LOINC" window will open  a) Find and select the appropriate LOINC code b) Click "OK" to close the LOINC window  3) Click "OK" to exit the Lab-specific window  4. Click the X (in the top, right-hand corner) to close the "Labs" window  V. Verify that all mandatory Lab fields have been completed (especially for manually-created Lab orders and/or manually-entered Lab results  A. I.e., Verify that the "Collection Date" box has been checked B. I.e., Verify that the "Results" date has been entered C. I.e., Verify that the Results date has been entered D. I.e., Verify that the Results has been entered in the yellow grid E. I.e., Verify that the "Reviewed" box has been checked  VI. Verify that any/all applicable Allergies have been documented in the "Allergies/Intolerances" section of the patient's chart in eCW  A. Access the "Allergies/Intolerances" section of the patient's chart in one of the following ways:  1. Progress Note (or Virtual Visit) → Allergies/Intolerances

Measure Name	Childhood Immunization Status: MMR (continued)
Trouble-Shooting (continued)	<ol> <li>OR, From the Progress Note Dashboard, click the Allergies/Intolerance icon</li> <li>Add a new Allergy or Intolerance as follows:</li> </ol>
	<ol> <li>From the "Allergies/Intolerance" window, click "Add"</li> <li>The "Past Medical History" window will open</li> </ol>
	a. " <b>Structured/Non-Structured</b> " Field
	<ol> <li>Select "Structured" if documenting a Drug allergy</li> <li>Select "Non-Structured" if documenting a non-Drug allergy</li> </ol>
	b. " <b>Agent/Substance</b> " Field
	1) For a Structured (Drug) Allergy
	a) Click on the field to open the "Select Rx" window
	b) Find and select the appropriate medication c) Click "OK" to save the information and exit the window
	2) For a Non-Structured A (Non-Drug/Other) Allergy
	<ul> <li>a) Click in the empty field to reveal a carat for a drop-down box</li> <li>b) Click the carat to reveal a list of (Non-Drug/Other) Allergy options</li> <li>c) Select an Allergy from the list of options in the drop-down box</li> <li>d) OR, free-type an Allergy into the "Agent/Substance" field</li> </ul>
	c. " <b>Reaction</b> " Field
	<ol> <li>For any Allergy, click in the empty "Reaction" field to reveal a carat for a drop-down list</li> <li>Select the appropriate Reaction from the list of options (i.e., anaphylaxis)         (continued)     </li> </ol>

Measure Name	Childhood Immunization Status: MMR (continued)
Trouble-Shooting (continued)	3) <u>OR</u> , free-type a reaction into the empty field d. " <b>Type</b> " Field
	<ol> <li>For any Allergy, click in the empty "Type" field to reveal a carat for a drop-down list of options</li> <li>Select the appropriate type (i.e., Allergy versus Intolerance) from the list of options</li> </ol>
	e. " <b>Status</b> " Field
	<ol> <li>For any Allergy, click in the empty "Status" field to reveal a carat for a drop-down list of options</li> <li>Select the current status (i.e., Active versus Inactive) for the Allergy/Intolerance</li> </ol>
	VII. For further assistance, contact Ed Worthington (eworthington@npoinc.org ) or Kelly Saxton (ksaxton@npoinc.org) at NPO (231-421-8505)
	For More Information
For More Information	I. HEDIS: "Childhood Immunization Status"
	II. eClinicalWorks "MIPS - CMS 117 - Childhood Immunization"