

# **Wisconsin Immunization Registry**

## **Implementation Guide for Immunization Messaging**

### ***WIR School Flat File***

Immunization data is passed to the central registry using three flat files containing client, immunization, and comment information respectively. The files will be linked via a 24-character Record Identifier supplied by the provider of the file. This identifier will uniquely identify each client and will appear in each immunization and comment record to link the immunization and comment to the client. Character fields need to be left justified and blank-filled, number fields right justified and blank-filled, and date fields in format MMDDYYYY with leading zeroes. If a site is unable to supply any information for a specified field, the entire field needs be filled with blanks.

Below are the fields to include in each of the files. Files need to be generated using the ASCII character set. Records will be fixed length and need to be terminated with a carriage return/line feed.

### Field Specifications and Usage:

1.	Element Name	Name of the field to identify the datum value that is to be populated in the respective position.																					
2.	Data type	Data type																					
3.	Len.	Maximum length of the element (field)																					
4.	Start Pos.	The first ordinal position of the Element Name (field).																					
5.	End Pos.	The last ordinal position of the Element Name (field).																					
6.	Value Set	Name of the table giving valid values for the element (field).																					
7.	Usage	<table border="1"> <thead> <tr> <th>Usage</th> <th>Description</th> <th>Definition</th> </tr> </thead> <tbody> <tr> <td>R</td> <td>Required</td> <td>The sending application SHALL populate “R” elements with a valid non-empty value.</td> </tr> <tr> <td>RE</td> <td>Required but may be empty</td> <td>The sending application SHALL populate “RE” elements with a non-empty value if there is relevant data.</td> </tr> <tr> <td>C(a/b)</td> <td>Conditional</td> <td> <p>The sending application SHALL follow the usage of the “a” half of the conditional usage if the conditional predicate is true.</p> <p>The sending application SHALL follow the usage of the “b” half of the conditional usage if the conditional predicate is false.</p> <p>“a” and “b”</p> <ul style="list-style-type: none"> <li>• shall be “R”, “RE”, “IX”, or “X”</li> <li>• can be valued the same or differently.</li> </ul> </td> </tr> <tr> <td>O</td> <td>Optional</td> <td>Not Applicable</td> </tr> <tr> <td>IX</td> <td>Not supported in this implementation</td> <td>The sending application SHALL NOT populate “IX” elements.</td> </tr> <tr> <td>X</td> <td>Not supported</td> <td>The sending application SHALL NOT populate “X” elements.</td> </tr> </tbody> </table>	Usage	Description	Definition	R	Required	The sending application SHALL populate “R” elements with a valid non-empty value.	RE	Required but may be empty	The sending application SHALL populate “RE” elements with a non-empty value if there is relevant data.	C(a/b)	Conditional	<p>The sending application SHALL follow the usage of the “a” half of the conditional usage if the conditional predicate is true.</p> <p>The sending application SHALL follow the usage of the “b” half of the conditional usage if the conditional predicate is false.</p> <p>“a” and “b”</p> <ul style="list-style-type: none"> <li>• shall be “R”, “RE”, “IX”, or “X”</li> <li>• can be valued the same or differently.</li> </ul>	O	Optional	Not Applicable	IX	Not supported in this implementation	The sending application SHALL NOT populate “IX” elements.	X	Not supported	The sending application SHALL NOT populate “X” elements.
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8.	Conditional predicate	The condition which will be evaluated to determine the usage of a conditional field.																					
9.	Format	Specifics on how the datum values are to be formatted.																					
10.	Notes	Additional details related to the element (field).																					

## Client Data

Element Name	Data Type	Len.	Start Pos.	End Pos.	Value Set	Usage	Conditional Predicate	Format	Notes
<b>Record Identifier</b>	Char.	24	1	24		R			Supplied by sender, used to link a Client to Immunization records.
<b>Client Status</b>	Char.	1	25	25	Client Status	RE			
<b>First Name</b>	Char.	25	26	50		R			
<b>Middle Name</b>	Char.	25	51	75		RE			
<b>Last Name</b>	Char.	35	76	110		R			
<b>Name Suffix</b>	Char.	10	111	120		O			JR, III, etc.
<b>Birth Date</b>	Date	8	121	128		R		MMDDYYYY	
<b>Death Date</b>	Date	8	129	136		C(RE/X)	If <b>Client Status</b> is valued "P"	MMDDYYYY	
<b>Mothers First Name</b>	Char.	25	137	161		RE			
<b>Mothers Maiden Last Name</b>	Char.	35	162	196		RE			Mother's maiden last name assists with the client de-duplication process. It is highly recommended that this information be provided whenever possible.
<b>Sex (Gender)</b>	Char.	1	197	197	Sex (Gender)	RE			
<b>Race</b>	Char.	1	198	198	Race	RE			
<b>Ethnicity</b>	Char.	2	199	200	Ethnicity	RE			
<b>SSN</b>	Char.	9	201	209		RE		Do not include hypens	Invalid SSN is considered to be any SSN with all of the same numbers (i.e. 999999999), all consecutive numbers (123456789 or 987654321 or 098765432, etc.), contains non-numeric characters, begins with '000' or ends with '0000', begins in the range of '700 – 728'.
<b>Contact Allowed</b>	Char.	2	210	211	Contact	RE			Controls whether notices are sent. If <null> default to 02.

## Client Data

Element Name	Data Type	Len.	Start Pos.	End Pos.	Value Set	Usage	Conditional Predicate	Format	Notes
<b>Consent to Share</b>	Char.	1	212	212		RE			Controls visibility of records to other organizations. Use Y, N, or <null>. If incoming value is null, database will store as 'U' and UI will store as "Unknown". Null will be sent back on bidirectional and WIR to PO exchanges.
<b>Chart Number</b>	Char.	20	213	232		C(R/RE)	If organization type is an HMO.		Identifier within the sending organization's system
<b>Responsible Party First Name</b>	Char.	25	233	257		RE			
<b>Responsible Party Middle Name</b>	Char.	25	258	282		RE			
<b>Responsible Party Last Name</b>	Char.	35	283	317		RE			
<b>Responsible Party Relationship</b>	Char.	2	318	319	Relationship	C(R/X)	If <b>Responsible Party First Name</b> and/or <b>Responsible Party Last Name</b> are populated.		
<b>Street Address</b>	Char.	55	320	374		RE			
<b>PO Box Route Line</b>	Char.	55	375	429		RE			
<b>Other Address Line</b>	Char.	55	430	484		RE			
<b>City</b>	Char.	52	485	536		RE			
<b>State</b>	Char.	2	537	538		RE			
<b>Zip</b>	Char.	9	539	547		RE			If +4 zip is used, the first 5 characters and second 4 characters are concatenated into a single value, without separators. Ex: 555554444

## Client Data

Element Name	Data Type	Len.	Start Pos.	End Pos.	Value Set	Usage	Conditional Predicate	Format	Notes
County	Char.	5	548	552	County	O			
Phone	Char.	17	553	569		RE			Format as digits only starting with the area code, ex. 6081234567.
Sending Organization	Char.	5	570	574		C(R/O)	If an organization is providing data for other organization(s) that own the record(s).		This is the numeric ID of the provider organization that owns this client and corresponding immunization records. <b>Contact the WIR Help Desk for the appropriate organization ID.</b>
FERPA release	Char.	1	575	575		X			
Date First Enrolled in WI Schools	Date	8	576	583		O		MMDDYYYY	
Graduation Year	Char.	4	584	587		O			This is to indicate the student's graduation year. If nothing is sent for a client, the graduation year will be calculated based on the client's birth date.

## Immunization

Element Name	Data Type	Len.	Start Pos.	End Pos.	Value Set	Usage	Conditional Predicate	Format	Notes
<b>Record Identifier</b>	Char.	24	1	24		R			Supplied by sender, used to link Immunizations to a Clients record.
<b>Vaccine Group</b>	Char.	16	25	40	Vaccine Codes	C(R/RE)	<b>CPT Code</b> is not valued		
<b>CPT Code</b>	Char.	5	41	45	Vaccine Codes	C(R/RE)	<b>Vaccine Group</b> is not valued		
<b>Trade Name</b>	Char.	24	46	69	Vaccine Codes	RE			Vaccine trade name is highly encouraged.
<b>Vaccination Date</b>	Date	8	70	77		R			MMDDYYYY
<b>Administration Route Code</b>	Char.	2	78	79	Administration Route	RE			
<b>Body Site Code</b>	Char.	4	80	83	Body Site	RE			
<b>Reaction Code</b>	Char.	8	84	91	Reaction	O			
<b>Manufacturer Code</b>	Char.	4	92	95	Manufacturers	RE			
<b>Immunization Information Source</b>	Char.	2	96	97	Immunization Information Source	O			Indicates whether this immunization was administered by your organization or the immunization information is historical from client record.
<b>Lot Number</b>	Char.	30	98	127		RE			Converted records will be stored in WIR as historical records, so the Lot Number will not correspond to inventory tracked in WIR, but Lot Number can still be stored as historical information.
<b>Provider Name</b>	Char.	50	128	177		O			The historical provider name.
<b>Administered By Name</b>	Char.	50	178	227		C(RE/O)	If <b>Immunization Information Source</b>		The name of the person who administered the vaccination.

## Immunization

Element Name	Data Type	Len.	Start Pos.	End Pos.	Value Set	Usage	Conditional Predicate	Format	Notes
							is valued "00"		
Site Name	Char.	30	228	257		O			The name of the clinic site where the vaccination occurred.
Sending Organization	Char.	5	258	262		C(R/O)	If an organization is providing data for other organization(s) that own the record(s).		This is ID of the provider organization that owns this client and corresponding immunization records. <b>Contact the WIR Help Desk for the appropriate organization ID.</b>  * This field is optional if an organization is sending all of its own records. This field is <b>required</b> if an organization other than the organization that owns the record(s) is transmitting this file.

## Comment

Element Name	Data Type	Len.	Start Pos.	End Pos.	Value Set	Usage	Conditional Predicate	Format	Notes
<b>Record Identifier</b>	Char.	24	1	24		R			Supplied by sender, used to link Comments to a Clients record. This field is required if a comment code is being sent.
<b>Comment Code</b>	Char.	2	25	26	Comments	R			
<b>Applies To Date</b>	Date	8	27	34		R			The date to which the comment applies. MMDDYYYY

### Notes on Refusals:

Refusals are sent in the **Comment** file. Please bear the following in mind when sending in refusals or receiving output flat files from WIR.

- a) The WIR system will write out multiple refusals for the same vaccine on different dates for those clients who have them.
- b) The WIR system will accept incoming refusals of the same vaccine on different dates and file them both. However, if they both have the same applies-to date, only one will be stored.
- c) The sending organization in the client file will become the refusal owner. In general, only the organization who owns the refusal is permitted to edit it. However, in the case of parent and child organizations, the parent may edit the child's refusals and vice versa.



**Examples**

Records need to be **blank** filled. In the following example, blanks are represented with the ‘\*’ character for illustrative purposes.

**Client Record**

```

12345*****AMELANA*****RAE*****MAERZ*****
***08141985*****MARY*****CARPENTER*****FWNH*****02Y*****33
DAVID*****RAPHAEL*****MAERZ*****33125*WEST*STREET*****
*****
*****DANE*****WI535291234WI025*****6085556543*****

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**Immunization Record**

```

12345*****DTAP*****TETRAMUNE*****10091985*****00*****
*****
*****

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**Comment Code Record**

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12345*****3110091985

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<b>Table Item</b>	<b>Code</b>	<b>Description</b>
<b>Administration Route</b>	<b>ID</b>	Intradermal
	<b>IM</b>	Intramuscular
	<b>IN</b>	Intranasal
	<b>IV</b>	Intravenous
	<b>PO</b>	Oral
	<b>SC</b>	Subcutaneous
	<b>TD</b>	Transdermal
	<b>MP</b>	Multiple Puncture (Small Pox)
<b>Body Site</b>	<b>BN</b>	Bilateral Nares
	<b>LA</b>	Left Arm
	<b>LD</b>	Left Deltoid
	<b>LG</b>	Left Gluteus Medius
	<b>LLFA</b>	Left Lower Forearm
	<b>LPC</b>	Left Posterior Chest
	<b>LT</b>	Left Thigh
	<b>LVL</b>	Left Vastus Lateralis
	<b>RA</b>	Right Arm
	<b>RD</b>	Right Deltoid
	<b>RG</b>	Right Gluteus Medius
	<b>RLFA</b>	Right Lower Forearm
	<b>RPC</b>	Right Posterior Chest
	<b>RT</b>	Right Thigh
<b>RVL</b>	Right Vastus Lateralis	
<b>Client Status</b>	<b>A</b>	Active
	<b>N</b>	Inactive
	<b>P</b>	Permanently Inactive – Deceased Clients
<b>Comments</b>	<b>03</b>	Allergy to baker's yeast (anaphylactic)
	<b>04</b>	Allergy to egg ingestion (anaphylactic)
	<b>05</b>	Allergy to gelatin (anaphylactic)
	<b>06</b>	Allergy to neomycin (anaphylactic) MMR & IPV
	<b>07</b>	Allergy to Streptomycin (anaphylactic)
	<b>08</b>	Allergy to Thimerosal (anaphylactic)
	<b>22</b>	Chronic illness
	<b>CI</b>	Contact with Infant(s) less than 6 months of age
	<b>21</b>	Current acute illness, moderate to severe
	<b>14</b>	Current diarrhea, moderate to severe
	<b>15</b>	Encephalopathy within 7 days of previous dose of DTP
	<b>16</b>	Current fever with moderate-to-severe illness
	<b>18</b>	Guillain-Barre Syndrome (GBS) within 6 weeks after DTP/DTaP
	<b>26</b>	Hepatitis B ANTIBODY to surface antigen, positive(immune)
	<b>26</b>	Hepatitis B titer – immune
	<b>HR</b>	High Risk Condition(s)
	<b>29</b>	History of Pertussis
	<b>31</b>	History of Rubella
	<b>XC</b>	History of Varicella/chicken pox
	<b>23</b>	Immune globulin(IG) administration, recent or simultaneous
<b>24</b>	Immunity: Diphtheria	
<b>25</b>	Immunity: Haemophilus Influenzae type B	
<b>XA</b>	Immunity: Hepatitis A	

<b>Table Item</b>	<b>Code</b>	<b>Description</b>
	26	Immunity: Hepatitis B
	27	Immunity: Measles
	28	Immunity: Mumps
	29	Immunity: Pertussis
	30	Immunity: Poliovirus
	31	Immunity: Rubella
	32	Immunity: Tetanus
	33	Immunity: Varicella (chicken pox)
	42	Immunity: Rabies
	34	Immunodeficiency (family history)OPV & VZV
	35	Immunodeficiency (household contact) OPV
	36	Immunodeficiency
	27	Measles titer – immune
	28	Mumps titer – immune
	37	Neurologic disorders
	38	Otitis media (ear infection) moderate to severe
	CP	Pertussis contraindication and precautions
	P1	Refusal of DT
	P2	Refusal of DT/aP
	P3	Refusal of HepB
	P4	Refusal of Hib
	P5	Refusal of MMR
	P6	Refusal of Pneumococcal
	P7	Refusal of Polio
	P8	Refusal of Td
	P9	Refusal of Varicella
	PA	Refusal of All Childhood Vaccines
	PB	Refusal of HepA
	PC	Refusal of Influenza-Seasonal
	PD	Refusal of Meningococcal
	PE	Refusal of Rotavirus
	PF	Refusal of HPV
	PG	Refusal of Pertussis
	PH	Refusal of Smallpox
	PJ	Refusal of Influenza-Novel H1N1
	PK	Refusal of Zoster
	PL	Refusal of Pneumo-Poly
	PM	Refusal of COVID-19
	39	Pregnancy (in recipient)
	31	Rubella titer – immune
	CT	Tetanus contraindication – allergic reaction
	40	Thrombocytopenia
	41	Thrombocytopenia purpura (history)
	33	Varicella titer – immune
	W1	Religious waiver
	W2	Personal conviction waiver
	W3	Health reason waiver
<b>Contact</b>	01	No contact allowed – Notices are not to be sent.
	02	Contact Allowed – Notices will be sent.
<b>County</b>	WI001	Adams
	WI003	Ashland
	WI005	Barron
	WI007	Bayfield
	WI009	Brown

<b>Table Item</b>	<b>Code</b>	<b>Description</b>
	<b>WI011</b>	Buffalo
	<b>WI013</b>	Burnett
	<b>WI015</b>	Calumet
	<b>WI017</b>	Chippewa
	<b>WI019</b>	Clark
	<b>WI021</b>	Columbia
	<b>WI023</b>	Crawford
	<b>WI025</b>	Dane
	<b>WI027</b>	Dodge
	<b>WI029</b>	Door
	<b>WI031</b>	Douglas
	<b>WI033</b>	Dunn
	<b>WI035</b>	Eau Claire
	<b>WI037</b>	Florence
	<b>WI039</b>	Fond du Lac
	<b>WI041</b>	Forest
	<b>WI043</b>	Grant
	<b>WI045</b>	Green
	<b>WI047</b>	Green Lake
	<b>WI049</b>	Iowa
	<b>WI051</b>	Iron
	<b>WI053</b>	Jackson
	<b>WI055</b>	Jefferson
	<b>WI057</b>	Juneau
	<b>WI059</b>	Kenosha
	<b>WI061</b>	Kewaunee
	<b>WI063</b>	La Crosse
	<b>WI065</b>	Lafayette
	<b>WI067</b>	Langlade
	<b>WI069</b>	Lincoln
	<b>WI071</b>	Manitowoc
	<b>WI073</b>	Marathon
	<b>WI075</b>	Marinette
	<b>WI077</b>	Marquette
	<b>WI078</b>	Menominee
	<b>WI079</b>	Milwaukee
	<b>WI081</b>	Monroe
	<b>WI083</b>	Oconto
	<b>WI085</b>	Oneida
<b>County</b>	<b>WI087</b>	Outagamie
	<b>WI089</b>	Ozaukee
	<b>WI091</b>	Pepin
	<b>WI093</b>	Pierce
	<b>WI095</b>	Polk
	<b>WI097</b>	Portage
	<b>WI099</b>	Price
	<b>WI101</b>	Racine
	<b>WI103</b>	Richland
	<b>WI105</b>	Rock
	<b>WI107</b>	Rusk
	<b>WI109</b>	St. Croix
	<b>WI111</b>	Sauk
	<b>WI113</b>	Sawyer
<b>WI115</b>	Shawano	
<b>WI117</b>	Sheboygan	
<b>WI119</b>	Taylor	

Table Item	Code	Description
	WI121	Trempeleau
	WI123	Vernon
	WI125	Vilas
	WI127	Walworth
	WI129	Washburn
	WI131	Washington
	WI133	Waukesha
	WI135	Waupaca
	WI137	Waushara
	WI139	Winnebago
	WI141	Wood
<b>Ethnicity</b>	NH	Non-Hispanic
	H	Hispanic
<b>Immunization Information Source</b>	00	Administered Vaccine by providing organization
	01	Historical information – source unspecified
	07	Historical information – from School record
<b>Manufacturers</b>	AB	Abbott Laboratories ( <i>Ross Products Division</i> ) ( <i>Inactive</i> )
	ACA	ACAMBIS
	AD	Adams Laboratories
	ALP	Alpha Therapeutic Corporation ( <i>Inactive</i> )
	AR	Armour ( <i>Inactive use CSL</i> )
	AVB	Aventis Behring L.L.C. ( <i>Centeon and Armour Pharmaceutica, Inactive use CSL</i> )
	AVI	Aviron
	BA	Baxter Healthcare Corporation ( <i>Inactive use BAH</i> )
	BAH	Baxter Healthcare Corporation ( <i>Hyland, Immuno Intl. AG, and N. Amer. Vac</i> )
	BAY	Bayer (Including Miles And Cutter)
	BN	Bavarian Nordic A/S
	BP	Berna Products ( <i>Inactive use BPC</i> )
	BPC	Berna ( <i>Including Swiss Serum And Vib</i> )
	BRR	Barr Laboratories ( <i>Inactive</i> )
	CEN	Centeon ( <i>Inactive use CSL</i> )
	CHI	Chiron Corporation ( <i>Inactive use NOV</i> )
	CMP	Celltech Medeva Pharmaceuticals ( <i>Inactive use NOV</i> )
	CNJ	Cangene Corporation
	CON	Connaught ( <i>Inactive use PMC</i> )
	CRU	Crucell ( <i>Inactive</i> )
	CSL	CSL Behring, Inc.
	DVC	DynPort Vaccine Company, LLC
	DVX	Dynavax Inc.
	EVN	Evans Medical Limited ( <i>Inactive use NOV</i> )
	GEO	GeoVax Labs, Inc
	GRE	Greer Laboratories Inc. ( <i>Inactive</i> )
	GRF	Grifols
	IAG	Immuno International Ag ( <i>Inactive use BAH</i> )
	IDB	ID Biomedical
	IM	Merieux ( <i>Inactive use PMC</i> )
	INT	Intercell Biomedical ( <i>Inactive</i> )
	IUS	Immuno-U.S., Inc.
	JPN	Osaka University (Biken) ( <i>Inactive</i> )
	JSN	Janssen
KGC	Korea Green Cross Corporation	
LED	Lederle ( <i>Inactive use WAL</i> )	
MA	Massachusetts Public Health Biologic Lab ( <i>Inactive use MBL</i> )	

<b>Table Item</b>	<b>Code</b>	<b>Description</b>
	<b>MBL</b>	Massachusetts Biologics Laboratories
	<b>MED</b>	Medimmune, Inc.
	<b>MIL</b>	Miles (Inactive use BAY)
	<b>MIP</b>	Emergent BioSolutions
	<b>MOD</b>	Moderna US, Inc.
	<b>MSD</b>	Merck & Co., Inc.
	<b>MSP</b>	MSP Vaccine Company – (partnership Merck and Sanofi Pasteur)
	<b>NAB</b>	NABI (formerly North American Biologicals)
	<b>NAV</b>	North American Vaccine, Inc. (Inactive use BAH)
	<b>NOV</b>	Novartis Pharmaceutical Corp. ( <i>Ciba-Geigy and Sandoz</i> )
	<b>NVX</b>	Novavax, Inc
	<b>NYB</b>	New York Blood Center ( <i>Inactive</i> )
	<b>OTC</b>	Organon Teknika Corporation ( <i>Inactive</i> )
	<b>ORT</b>	Ortho-Clinical Diagnostics (formerly Ortho Diagnostic Systems, Inc.)
	<b>PAX</b>	Emergent Travel Health, Inc (Formerly PaxVax)
	<b>PD</b>	Parkedale Pharmaceuticals (formerly Parke-Davis)
	<b>PFR</b>	Pfizer
	<b>PMC</b>	Aventis Pasteur ( <i>Connaught and Pasteur Merieux</i> )
	<b>PRX</b>	Praxis Biologics (Inactive use WAL)
	<b>PSC</b>	Protein Sciences
	<b>PWJ</b>	Powerject Pharmaceuticals ( <i>Celltech Medeva and Evans Medical</i> )
	<b>SCL</b>	Sclavo, Inc. ( <i>Inactive</i> )
	<b>SEQ</b>	Seqirus
	<b>SI</b>	Swiss Serum and Vaccine Inst. (Inactive use BPC)
	<b>SKB</b>	GlaxoSmithKline ( <i>SmithKline Beecham and Glaxo Wellcome</i> )
	<b>SOL</b>	Solvay Pharmaceuticals
	<b>TAL</b>	Talecris Biotherapeutics (includes Bayer Biologicals) ( <i>Inactive</i> )
	<b>USA</b>	Us Army Med Research
	<b>VAL</b>	Valneva
	<b>VBI</b>	VBI Vaccines, Inc
	<b>VXG</b>	VaxGen
	<b>WA</b>	Wyeth-Ayerst (Inactive use WAL)
	<b>WAL</b>	Wyeth
	<b>ZLB</b>	ZLB Behring (includes Aventis Behring and Armour Pharmaceutical Company) (Inactive use CSL)
	<b>OTH</b>	Other manufacturer
	<b>UNK</b>	Unknown
<b>Race</b>	<b>I</b>	American Indian or Alaska Native
	<b>A</b>	Asian or Pacific Islander
	<b>B</b>	Black or African-American
	<b>W</b>	White
	<b>O</b>	Other
	<b>U</b>	Unknown
<b>Relationship</b>	<b>18</b>	Self
	<b>61</b>	Aunt
	<b>62</b>	Brother
	<b>33</b>	Father
	<b>87</b>	Foster Father
	<b>88</b>	Foster Mother
	<b>97</b>	Grandfather
	<b>98</b>	Grandmother
	<b>26</b>	Guardian
	<b>32</b>	Mother
	<b>B7</b>	Sister

<b>Table Item</b>	<b>Code</b>	<b>Description</b>
	<b>64</b>	Spouse
	<b>48</b>	Stepfather
	<b>49</b>	Stepmother
	<b>D3</b>	Uncle
<b>Reaction Codes</b>	<b>10</b>	Anaphylactic reaction
	<b>CRYING</b>	Persistent crying lasting $\geq$ 3 hours within 48 hours of immunization
	<b>ERVISIT</b>	Emergency room/doctor visit required
	<b>FEVER105</b>	Temperature $\geq$ 105 (40.5 C) within 48 hours of immunization
	<b>HYPOTON</b>	Hypotonic-hyporesponsive collapse within 48 hours of immunization
	<b>SEIZURE</b>	Seizure occurring within 3 days
<b>Sex (Gender)</b>	<b>F</b>	Female
	<b>M</b>	Male
	<b>U</b>	Unknown

**VACCINE CODES**

<b>CPT</b>	<b>CVX</b>	<b>Group</b>	<b>Vaccine</b>	<b>Trade Name</b>	<b>Description</b>	<b>MFG</b>
90476	54	Adeno	Adeno T4	Adeno T4	Adenovirus type 4, live oral	WAL
90477	55		Adeno T7	Adeno T7	Adenovirus type 7, live oral	WAL
	82		Adeno, unspecified formulation		Recorded as CVX 55	
90581	24	Anthrax	Anthrax	Anthrax BioThrax	Anthrax	MIP
90585	19		BCG	BCG-TB	BCG-TB	Bacillus Calmette-Guerin TB
90586		BCG-BC		BCG-Cancer	Bacillus Calmette-Guerin bladder cancer	OTC
90728		BCG			BCG	
90625	174	Cholera	Cholera, live unspecified	Vaxchora	Cholera, live attenuated	PAX
90725	26		Cholera, unspecified formulation		Cholera, unspecified formulation	
91300	208	COVID-19	Pfizer COVID-19 Vaccine	Pfizer COVID-19 Vaccine	SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, preservative free, 30 mcg/0.3mL dose	PFR
91301	207		Moderna COVID-19 Vaccine	Moderna COVID-19 Vaccine Spikevax	SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, preservative free, 100 mcg/0.5mL dose or 50 mcg/0.25mL dose	MOD
91303	212		Janssen COVID-19 Vaccine	Janssen COVID-19 Vaccine	SARS-COV-2 (COVID-19) vaccine, vector non-replicating, recombinant spike protein-Ad26, preservative free, 0.5 mL	JSN
91304	313		Novavax (2023-2024 Formula) 12+	Novavax (2023-24) 12+	COVID-19, subunit, rS-nanoparticle, adjuvanted, PF, 5 mcg/0.5 mL	NVX
91304	211		Novavax COVID-19 Vaccine	Novavax COVID-19 Vaccine	SARS-COV-2 (COVID-19) vaccine, Subunit, recombinant spike protein-nanoparticle+Matrix-M1 Adjuvant, preservative free, 0.5mL per dose	NVX
91305	217		Pfizer COVID-19 tris 12+	Pfizer COVID-19 tris 12+ Comirnaty	SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, preservative free, 30 mcg/0.3 mL dose, tris-sucrose formulation	PFR
91307	218		Pfizer COVID-19 (5-11Y)	Pfizer COVID-19 (5-11Y)	SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, preservative free, 10 mcg/0.2 mL dose, tris-sucrose formulation	PFR
91308	219		Pfizer COVID-19 (6M-4Y)	Pfizer COVID-19 (6M-4Y)	SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, preservative free, 3 mcg/0.2 mL dose, tris-sucrose formulation	PFR
91309	221		Moderna6-11Y/ 18+BOOSTER	Moderna6-11Y/ 18+BOOSTER	SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, preservative free, 50 mcg/0.5 mL dose	MOD
91311	228		Moderna COVID-19 (6M-5Y)	Moderna COVID-19 (6M-5Y)	SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, preservative free, pediatric 25 mcg/0.25 mL dose	MOD
91312	300		Pfizer BvIntBstr 12+	Pfizer BvIntBstr 12+	SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, bivalent booster, preservative free, 30 mcg/0.3mL dose, tris-sucrose formulation	PFR
91313	229		Moderna BvIntBstr	Moderna BvIntBstr	SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, bivalent booster, preservative free, 50 mcg/0.5 mL dose	MOD
91314	229		Moderna BvIntBstr	Moderna BvIntBstr	SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, bivalent booster, preservative free, 25mcg/0.25mL dose	MOD
91315	301		Pfizer BvIntBstr 5-11	Pfizer BvIntBstr 5-11	SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, bivalent booster, preservative free, 30 mcg/0.3mL dose, tris-sucrose formulation	PFR



CPT	CVX	Group	Vaccine	Trade Name	Description	MFG
91316	230		Moderna BvIntBstr 6M-5Y	Moderna BvIntBstr 6M-5Y	SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, bivalent booster, preservative free, 10 mcg/0.2 mL dose	MOD
91317	302		Pfizer BvIntBstr 6M-4Y	Pfizer BvIntBstr 6M-4Y	SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, bivalent, preservative free, 3 mcg/0.2mL dose, tris-sucrose formulation	PFR
91318	308		Pfizer (2023-2024 Formula) 6M-4Y	Pfizer (2023-24) 6M-4Y	COVID-19, mRNA, LNP-S, PF, tris-sucrose, 3 mcg/0.3 mL	PFR
91319	310		Pfizer (2023-2024 Formula) 5Y-11Y	Pfizer (2023-24) 5Y-11Y	COVID-19, mRNA, LNP-S, PF, tris-sucrose, 10 mcg/0.3 mL	PFR
91320	309		Comirnaty (2023-2024 Formula) 12+	Comirnaty (2023-24) 12+	COVID-19, mRNA, LNP-S, PF, tris-sucrose, 30 mcg/0.3 mL	PFR
91321	311		Moderna (2023-2024 Formula) 6M-11Y	Moderna (2023-24) 6M-11Y	COVID-19, mRNA, LNP-S, PF, 25 mcg/0.25 mL	MOD
91322	312		Spikevax (2023-2024 Formula) 12+	Spikevax (2023-24) 12+	COVID-19, mRNA, LNP-S, PF, 50 mcg/0.5 mL	MOD
	213		COVID-19, unspecified formulation		COVID-19, unspecified formulation	
90719		Diphtheria	Diphtheria	Diphtheria	Diphtheria	PD
90700	20	DTP/aP	DTaP	Acel-Imune Certiva Infanrix Tripedia	Diphtheria, tetanus, acellular pertussis	WAL BAH SKB PMC
90701	01		DTP	DTP	Diphtheria, tetanus, whole cell pertussis	PMC
90702	28		DT	DT	Diphtheria tetanus pediatric	PMC
90720	22		DTP-Hib	Tetramune	DTP – Hib combination	WAL
90721	50		DTaP-Hib	TriHIBit	DtaP-Hib combination	PMC
90723	110		DTAP-HepB-Polio	Pediarix	DTAP-HepB-Polio combination	SKB
90696	130		DTaP-IPV	KINRIX Quadracel	DTaP-IPV combination	SKB PMC
90697	146		DTaP-IPV-Hib-HepB	Vaxelis	DTaP-IPV-Hib-HepB Combination	MSP
90698	120		DtaP-Hib-IPV	Pentacel	DtaP-Hib-IPV combination	PMC
	106		DTAP, 5 pertussis antigens	DAPTACEL	Diphtheria, tetanus, acellular pertussis, 5 antigens	PMC
	107		DTaP, unspecified formulation		Recorded as CVX 20	
90735	39	Encephalitis	Japanese Encephalitis-SC	JE-Vax	Japanese encephalitis for Subcutaneous use	JPN
90738	134		Japanese Encephalitis-IM	Ixiaro	Japanese encephalitis for Intramuscular use	VAL
	129		Japanese Enceph, unspecified formulation		Japanese Enceph, unspecified formulation	
90632	52	HepA	HepA adult	Havrix-Adult VAQTA-Adult	Hepatitis A adult	SKB MSD
90633	83		HepA-Ped 2 Dose	Havrix-Peds 2 Dose VAQTA-Peds 2 Dose	Hepatitis A pediatric/adolescent 2 dose	SKB MSD
90634	84		HepA -Peds	Havrix-Peds 3 Dose	Hepatitis A pediatric/adolescent 3 dose	SKB MSD
90636	104		HepA-HepB Adult	Twinrix	Hepatitis A & Hepatitis B adult	SKB
90730	85		Hep A, unspecified formulation		Hep A, unspecified formulation	
	31		Hep A-Peds, unspecified formulation		Recorded as CVX 85	
90723	110		DTAP-HepB-Polio	Pediarix	DTAP-HepB-Polio combination	SKB
90697	146		DTaP-IPV-Hib-HepB	Vaxelis	DTaP-IPV-Hib-HepB Combination	MSP
90745	42		Hep B, adolescent/high risk infant		Hep B, adolescent/high risk infant	
90731	45		Hep B, unspecified formulation		Hep B, unspecified formulation	
90636	104		HepA-HepB Adult	Twinrix	Hepatitis A & Hepatitis B adult	SKB
90739	189	HepB	HepB-CpG	Heplisav-B	Hepatitis B, adult dosage (2 dose schedule), for intramuscular use	DVX
90740	44		Hep B-Dialysis 3 dose		Hepatitis B Dialysis 3 dose	
90743	43		HepB adult	Recombivax-Adult Engerix-B Adult	Hepatitis B adult dose 1ml	MSD SKB
90744	08		HepB pediatric	Recombivax Peds Engerix-B Peds	Hepatitis B pediatric/adolescent .5ml	MSD SKB

CPT	CVX	Group	Vaccine	Trade Name	Description	MFG
90746	43		HepB adult	Recombivax-Adult Engerix-B Adult	Hepatitis B adult dose 1ml	MSD SKB
90747	44		HepB-Dialysis 4 dose	Recombivax-Dialysis Engerix-B dialysis	Hepatitis B Dialysis 4 dose	MSD SKB
90748	51		HepB-Hib	Comvax	HepB-Hib Combination	MSD
90759	220		HepB-Adult, recombinant, adjuvanted	Prehevbrio Hep B Adult	HepB recombinant, 3-antigen, Al(OH)3	VBI
			HepB-Unspecified			
90645	47	Hib	Hib-HbOC	Hib-TITER	Hemophilus influenza b HbOC 4 dose	WAL
90697	146		DTaP-IPV-Hib-HepB	Vaxelis	DTaP-IPV-Hib-HepB Combination	MSP
90646	46		Hib-PRP-D	ProHIBit	Hemophilus influenza b PRP-D booster	PMC
90647	49		Hib-OMP	PedvaxHIB	Hemophilus influenza b OMP 3 dose	MSD
90648	48		Hib-PRP-T	OmniHib ActHib Hiberix	Hemophilus influenza b PRP-T 4 dose	PMC PMC SKB
90720	22		DTP-Hib	Tetramune	DTP – Hib combination	WAL
90721	50		DTaP-Hib	TriHIBit	DtaP-Hib combination	PMC
90748	51		HepB-Hib	Comvax	HepB-Hib combination	MSD
90698	120		DtaP-Hib-IPV	Pentacel	DtaP-Hib-IPV combination	PMC
90737	17		Hib, unspecified formulation		Hib,unspecified formulation	
90644	148		Meningococcal C/Y-HIB PRP	MenHibrix	Meningococcal-Hib combination	SKB
90650	118	HPV	HPV, Bivalent	Cervarix	Human Papilloma Virus	SKB
90649	62		HPV, Quadrivalent	Gardasil	Human Papilloma Virus	MSD
90651	165		HPV, 9-valent	Gardasil 9	Human Papilloma Virus, 9-valent	MSD
	137		HPV, unspecified formulation		HPV, unspecified formulation	
90281	86	Ig	Ig	Ig	Ig human	
90283	87		IgIV	IgIV Flebogamma	Ig IV human	
90287	27		Botulinum-antitoxin	Botulinum-antitoxin	Botulinum antitoxin equine	
90288			Botulism	BabyBIG Botulism BIG	Botulism Immune Globulin	
90291	29		CMV-IgIV	CMV-IgIV	Cytomegalovirus Ig IV human	
90399	14		IG, unspecified formulation		IG, unspecified formulation	
90296	12		Diphtheria-antitoxin	Diphtheria-antitoxin	Diphtheria antitoxin, equine	
90371	30		HBIg	HBIg	Hepatitis B Ig human	
90375	34		Rlg	Rlg	Rabies Ig human	
90376	34		Rlg-HT	Rlg-HT	Rabies Ig heat treated human	
90384	157		Rho(D)Full	Rho(D)Full	Rho(D)Ig Rhlg human full-dose	
90385	157		Rho(D)Mini	Rho(D)Mini	Rho(D)Ig Rhlg human mini-dose	
90386			Rho(D)IV	Rho(D)IV	Rho(D)Ig Rhlg human IV	
	156		Rho(D) IM or IV		Rho(D), unspecified formulation	
	159		Rho(D), unspecified formulation		Rho(D), unspecified formulation	
90389	13		TIG	BayTet TiG HyperTET	Tetanus Ig human	
					Tetanus immune globulin human	GRF
90393	79		Vaccinia immune globulin VIG	Vaccinia-Ig	VacciniaIg human	
90396	36		VZlg	VZlg	Varicella-zoster Ig human	
	117		VZIG (IND)	VariZIG		CNJ
			Varicella IG			
90378	93	IG-RSV	RSV-IgIM	Synagis	Respiratory syncytial virus Ig	
90379	71		RSV-IgIV	RSV-IgIV Respigam	Respiratory syncytial virus Ig IV	
90630	166	Influenza	Influenza Intradermal Quadrivalent P-Free	Fluzone Intradermal Quad	influenza, intradermal, quadrivalent, preservative free	PMC
90653	168		Influenza Trivalent Adjuvanted	FLUAD	Influenza trivalent adjuvanted	SEQ
90654	144		Influenza Intradermal	Fluzone Intradermal	Influenza, seasonal, intradermal, p-free	PMC
90655	140		Influenza Preservative-Free	AFLURIA, P-free Agriflu, P-free Fluarix, P-free Fluvirin, P-free	Influenza preservative free 6 month to 3 year dosage	SEQ NOV SKB SEQ

CPT	CVX	Group	Vaccine	Trade Name	Description	MFG						
90656				Fluzone, P-free	Influenza preservative free 3 years and up dosage	PMC						
				AFLURIA, P-free		SEQ						
				Agriflu, P-free		NOV						
				Fluarix, P-free		SKB						
				FluLaval, P-free		SKB						
				Fluvirin, P-free		SEQ						
90657	141	Influenza	Flu-Imune	Influenza split virus 6 month to 3 year dosage	WAL							
			Flu-Shield		WAL							
			Fluzone		PMC							
			AFLURIA		SEQ							
			Fluvirin		SEQ							
			Fluogen		PD							
			FluLaval		SEQ							
90658				Flu-Imune	Influenza split virus 3 years and up dosage	WAL						
				Flu-Shield		WAL						
				Fluzone		PMC						
				AFLURIA		SEQ						
				Fluvirin		SEQ						
				Fluogen		PD						
90659	16	Influenza-Whole Virus			Influenza whole virus							
							90660	111	Flu-Nasal	FluMist	Influenza live, for intranasal use	MED
							90661	153	Influenza MDCK Preservative-Free	Flucelvax	Influenza, injectable, MDCK, preservative free	NOV
							90662	135	Influenza High Dose	Fluzone High-Dose	Influenza split virus increased antigen content	PMC
							90672	149	Flu-Nasal Quadrivalent	FluMist Quadrivalent	Influenza quadrivalent live, for intranasal use	MED
90673	155	Influenza Recombinant P-Free	Flublok	Influenza, recombinant, injectable, preservative free	PSC							
90674	171	Influenza MDCK Quadrivalent P-Free	Flucelvax Quadrivalent, P-Free	Influenza MDCK quadrivalent preservative free	SEQ							
90682	185	Influenza Quad Recombinant P-Free	Flublok Quadrivalent	Influenza Quadrivalent recombinant P-Free	PMC							
90694	205	Influenza Quadrivalent Adjuvanted	FLUAD Quadrivalent	Influenza, seasonal vaccine, quadrivalent, adjuvanted, 0.5mL dose, preservative free	SEQ							
90685	161	Influenza Quadrivalent P-Free 6-35M	AFLURIA Quad PF 6-35M	Influenza, injectable, quadrivalent, preservative free 6 month to 3 year dosage	SEQ							
			Fluzone Quad PF 6-35M		PMC							
90686	150	Influenza Quadrivalent P-Free	AFLURIA Quad, P-Free	Influenza, injectable, quadrivalent, preservative free 3 years and up dosage	SEQ							
			Fluarix Quadrivalent, P-Free		SKB							
			FluLaval Quad, P-Free		IDB							
			Fluzone Quadrivalent, P-Free		PMC							
90687	158	Influenza Quadrivalent	AFLURIA Quadrivalent	Influenza virus vaccine, quadrivalent, split virus, when administered to individuals 6-35 months of age, for intramuscular use	SEQ							
			FluLaval Quadrivalent		IDB							
			Fluzone Quad		PMC							
90688			AFLURIA Quadrivalent	Influenza virus vaccine, quadrivalent, split virus, when administered to individuals 3+ years of age, for intramuscular use	SEQ							
			FluLaval Quadrivalent		IDB							
			Fluzone Quad		PMC							
90724	88	Influenza, unspecified formulation		Influenza, unspecified formulation								

CPT	CVX	Group	Vaccine	Trade Name	Description	MFG
	151		Influenza Nasal, unspecified formulation		Influenza Nasal, unspecified formulation	
90756	186		Influenza MDCK Quadrivalent	Flucelvax Quadrivalent	Influenza, MDCK, Quadrivalent	SEQ
90664	125	Influenza A H1N1	Novel Influenza A H1N1-Nasal	H1N1 MED Nasal	H1N1 live, for intranasal use	MED
90666	126		Novel Influenza A H1N1, P-free	H1N1 P-free CSL H1N1 P-free NOV H1N1 P-free SAN	H1N1 monovalent inactivated preservative free	CSL NOV PMC
90668	127		Novel Influenza A H1N1	H1N1 CSL H1N1 NOV H1N1 SAN	H1N1 monovalent inactivated	CSL NOV PMC
90663	128		Novel Influenza A H1N1 all formulations		H1N1 all formulations	
90665	66	Lyme	Lyme	LYMERix	Lyme disease	SKB
90705	05	Measles	Measles	Measles Attenuvax	Measles live 1964-1974 (Eli Lilly) Measles live	MSD MSD
90708	04		Measles-Rubella	M-R-VAX Measles-Rubella (MERU)	Measles and rubella live	MSD MSD
90704	07	Mumps	Mumps	Mumps Mumpsavax	Mumps 1950-1978 Mumps live	MSD MSD
90709			Rubella-Mumps, NOS			
	38		Rubella-Mumps	Biavax II Mumps-Rubella (MURU)	Rubella and mumps live	MSD MSD
90707	03	MMR	MMR	MMR II Priorix	Measles, mumps and rubella live	MSD SKB
90710	94		MMRV	ProQuad	Measles, mumps, rubella, varicella live	MSD
90619	203	Meningo	Mening ACWY polysaccharide/TT conj	MenQuadfi	Meningococcal conjugate quadrivalent, MenACWY-TT (MCV4)	PMC
90733	32		Meningococcal-MPSV4	MENOMUNE	Meningococcal polysaccharide	PMC
90734	114		Meningococcal-MCV4P	Menactra	Meningococcal polysaccharide [groups A, C, Y and W-135] diphtheria toxoid conjugate vaccine	PMC
	136		Meningococcal-MCV4O	Menveo	Meningococcal oligosaccharide [groups A, C, Y and W-135] diphtheria toxoid conjugate vaccine	NOV
	147		Meningococcal-MCV4		MCV4, unspecified formulation [groups A, C, Y and W-135]	
	108		Meningococcal, unspecified formulation		Meningococcal, unspecified formulation	
90644	148		Meningococcal C/Y-HIB PRP	MenHibrix	Meningococcal-Hib combination	SKB
90621	162	Meningo B	Meningococcal B, recombinant	Trumenba	Meningococcal B, fully recombinant	PFR
90620	163		Meningococcal B, OMV	Bexsero	Meningococcal B, recombinant, OMV, adjuvanted	SKB
	164		Meningococcal B, unspecified formulation		Meningococcal B, unspecified formulation	
90715	115	Pertussis	Tdap > 7 Years	Adacel Boostrix	Tdap > 7 years	PMC SKB
	11		Pertussis		Pertussis vaccine	
90712	02	Polio	Polio oral	ORIMUNE	Poliovirus OPV live oral	WAL
90713	10		Polio injectable	IPOL	Poliovirus inactivated IPV	PMC
90723	110		DTAP-HepB-Polio	Pediarix	DTAP-HepB-Polio combination	SKB
90696	130		DTaP-IPV	KINRIX Quadracel	DTaP-IPV	SKB PMC
90697	146		DTaP-IPV-Hib-HepB	Vaxelis	DTaP-IPV-Hib-HepB Combination	MSP
90698	120		DtaP-Hib-IPV	Pentacel	DtaP-Hib-IPV combination	PMC
	89		Polio, unspecified formulation		Polio, unspecified formulation	
90727	23	Plague	Plague	Plague	Plague	GRE
90732	33	Pneumo-Poly	Pneumococcal 23	PNU-IMUNE 23 Pneumovax 23	Pneumococcal polysaccharide 23 valent	WAL MSD
90669	100		Pneumococcal	Pneumo-Conjugate 7	Prevnar	Pneumococcal conjugate polyvalent
90670	133		Pneumo-Conjugate 13	Prevnar 13	Pneumococcal 13-valent conjugate	PFR

CPT	CVX	Group	Vaccine	Trade Name	Description	MFG
90671	215		Pneumo-Conjugate 15	Vaxneuvance	Pneumococcal conjugate vaccine, 15-valent (PCV15), polysaccharide CRM197 conjugate, adjuvant, preservative free	MSD
90677	216		Pneumo-Conjugate 20	Prevnar 20	Pneumococcal conjugate vaccine, 20-valent (PCV20), polysaccharide CRM197 conjugate, adjuvant, preservative free	PFR
	109		Pneumococcal, unspecified formulation		Pneumococcal, unspecified formulation	
	152		Pneumococcal Conjugate, unspecified		Pneumococcal Conjugate, unspecified formulation	
90675	18	Rabies	Rabies-intramuscular		Rabies intramuscular	
	175		Rabies-intramuscular, Diploid cell culture	Imovax Rabies IM	Rabies intramuscular, diploid cell culture	PMC
	176		Rabies-intramuscular, Fibroblast culture	RabAvert	Rabies intramuscular, Fibroblast culture	SKB
90676	40		Rabies-intradermal	Imovax Rabies ID	Rabies intradermal	PMC
90726	90		Rabies, unspecified formulation		Rabies, unspecified formulation	
90680	74	Rotavirus	Rotavirus, Tet	RotaShield	Rotavirus tetravalent live oral (removed on 10/16/1999)	WAL
	116		Rotavirus, Pent	RotaTeq	Rotavirus pentavalent (after 02/02/2006)	MSD
	122		Rotavirus, unspecified formulation		(between 10/16/1999 and 02/01/2006)	
90681	119		Rotavirus, monovalent	ROTARIX		SKB
90678	305	RSV	RSV, bivalent, 0.5 mL, PF	Abrysvo	Respiratory syncytial virus (RSV), vaccine, bivalent, protein subunit RSV prefusion F, diluent reconstituted, 0.5 mL, preservative free	PFR
90679	303		RSV, recombinant, 0.5 mL, PF	Arexvy	Respiratory syncytial virus (RSV), vaccine, recombinant, protein subunit RSV prefusion F, adjuvant reconstituted, 0.5 mL, preservative free	SKB
90380	306		RSV, mAb, nirsevimab, 50 mg/0.5mL	BEYFORTUS, 50 mg/0.5mL	Respiratory syncytial virus (RSV) monoclonal antibody, IgG1k, (nirsevimab-alip), 0.5 mL, neonates and children to 24 months	PMC
90381	307		RSV, mAb, nirsevimab, 100 mg/1mL	BEYFORTUS, 100 mg/1mL	Respiratory syncytial virus (RSV) monoclonal antibody, IgG1k, (nirsevimab-alip), 1 mL, neonates and children to 24 months	PMC
	304		Respiratory syncytial virus, unspecified		Respiratory syncytial virus (RSV), unspecified	
	314		RSV vaccine, unspecified		Respiratory syncytial virus (RSV) vaccine, unspecified	
	315		RSV mAb, unspecified		Respiratory syncytial virus (RSV) monoclonal antibody (MAB), unspecified	
90706	06		Rubella	Rubella	Rubella Meruvax II	Rubella live
90708	04	Measles-Rubella		Measles-Rubella (MERU) M-R-VAX	Measles and rubella live	MSD MSD
90709		Rubella-Mumps NOS			Rubella-Mumps, NOS	
	38	Rubella-Mumps		Mumps-Rubella (MURU) Biavax II	Rubella and mumps live	MSD MSD
90622	75	Smallpox		Smallpox	ACAM2000	Smallpox
			Smallpox	Dryvax	Vaccinia(Smallpox) dry	WAL
90611	206		Smallpox mpox vaccine	JYNNEOS	Vaccinia, smallpox mpox vaccine live, PF, SQ or ID injection	BN
	105		Vaccinia (Smallpox), diluted	Vaccinia (smallpox), diluted		
90718	09	Td	Td	Td	Tetanus and Diphtheria Adsorbed	MBL
90714	113		Td Preservative-Free	DECAVAC TENIVAC	Td preservative free – CPT code is effective for immunizations given on	PMC

CPT	CVX	Group	Vaccine	Trade Name	Description	MFG
				Td P-free	or after 7/1/2005	
90715	115		Tdap > 7 Years	Adacel	Tdap > 7 years	PMC
	138		Td (adult) not adsorbed	Boostrix	Td (adult) not adsorbed	SKB
	139		Td (adult) unspecified formulation		Td (adult) unspecified formulation	
90703	35	Tetanus	Tetanus	TT	Tetanus	PMC
	142		Tetanus toxoid, not adsorbed		Tetanus toxoid, not adsorbed	
	112		Tetanus toxoid, unspecified formulation			
90627	224	TickBorne Enceph	Tick-borne encephalitis, PF, 0.5mL	TicoVac 0.5 mL	Tick-borne encephalitis vaccine, inactivated, preservative free, 0.5mL dose	PFR
90626	223		Tick-borne encephalitis, PF, 0.25mL	TicoVac 0.25 mL	Tick-borne encephalitis vaccine, inactivated, preservative free, 0.25 mL dose	PFR
	222		Tick-borne encephalitis, unspecified		Tick-borne encephalitis vaccine, unspecified	
90690	25	Typhoid	Typhoid-oral	Vivotif Berna/Ty21a	Typhoid oral	
90691	101		Typhoid-ViCPs	Typhim Vi	Typhoid VI capsular polysaccharide	PMC
90692	41		Typhoid-HP	Typhoid	Typhoid heat and phenol inactivated	
90693	53		Typhoid-AKD	Typhoid-AKD	Typhoid acetone-killed, dried (military)	
90714	91		Typhoid, unspecified formulation		Typhoid, unspecified formulation (after 7/1/2005, no CPT code is associated with this vaccine group)	
90710	94	Varicella	MMRV	ProQuad		MSD
90716	21		Varicella	Varivax	Varicella live	MSD
	37	Yellow Fever	Yellow Fever US	YF-VAX	Yellow Fever live	PMC
90717	183		Yellow fever - alt	Stamaril	Alternate yellow fever vaccine	PMC
			Yellow fever		Yellow fever US or yellow fever alternate	
	184		Yellow fever, unspecified formulation		Yellow fever, unspecified formulation	
90736	121	Zoster	Zoster (shingles), live	Zostavax	Zoster (shingles), live	MSD
90750	187		Zoster (shingles), recombinant	Shingrix	Zoster (shingles), recombinant	SKB
	188		Zoster, unspecified formulation		Zoster, unspecified formulation	

## Document Updates

Version No.	Version Date	Revised By	Description
1.0	1-Sep-2016	Amanda Ray	Updated Vaccine and Manufacturer Tables
1.1	12-Dec-2016	Amanda Ray	Updated Vaccine and Manufacturer Tables
1.2	24-Mar-2017	Amanda Ray	Added Afluria Quad, Afluria Quad P-Free, and Quadracel vaccines
1.3	11-Aug-2017	Jayne Judd	Added Flublok Quadrivalent and Flucelvax Quadrivalent. Updated RabAvert and Imovax Rabies IM.
1.4	13-Sept-2017	Jayne Judd	Added Yellow Fever vaccines
1.5	20-Sept-2017	Jayne Judd	Updated Vaccine and Manufacturer Tables
1.6	10-Nov-2017	Jayne Judd	Updated Vaccine and Manufacturer Tables
1.7	08-Dec-2017	Rebekah Van Dusen	Added Zoster vaccines (Shingrix and unspec form). Added missing manufacturers.
1.8	18-Dec-2017	Mark Ehlke	Removed references in support of NO FIRST NAME for the first_name field.

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1.9	20-Feb-2018	Amanda Ray	Updated Flulaval, P-free typo
2.0	27-Feb-2018	Mark Ehlke	Added Vaxchora information
2.1	23-Mar-2018	Mark Ehlke	Updated table for HepB related CVX codes and CPT. Updated manufacturer table.
2.2	05-May-2018	Mark Ehlke	Updated MFG for Bexsero to SKB
3.0	23-Oct-2018	Kevin Samuelson	Updated format of the various file specifications to provider more granular detail and adopt HL7 documentation standards.
3.1	21-Mar-2019	Zac Derenne	Update Vaccine Names (0292); Update Descriptions (WVTN); Mark MFGs as inactive (0227). Added "Optional" under Usage on Page 2.
3.2	31-Jul-2020	Zac Derenne	Reconciled Vaccine Codes table with main Flat File list.
3.3	03-Dec-2020	Zac Derenne	Add Comment code for Refusal of COVID-19. Add both Moderna and Pfizer COVID-19 vaccines.
3.4	22-Feb-2021	Zac Derenne	Add Janssen COVID-19 Vaccine and MFG Janssen
3.5	08-Apr-2021	Zac Derenne	Add MenQuadfi
3.6	06-May-2021	Zac Derenne	Add Vaxelis
3.7	25-Jun-2021	Zac Derenne	Add JYNNEOS
3.8	13-Oct-2021	Zac Derenne	Add Pneumo-Conjugate 15 and 20
3.9	20-Oct-2021	Zac Derenne	Add Pfizer COVID-19 (5-11Y)
4.0	14-Dec-2021	Zac Derenne	Add Pfizer COVID-19 tris 12+
4.1	08-Feb-2022	Zac Derenne	Add Pfizer COVID-19 (6M-4Y)
4.2	06-Jun-2022	Zac Derenne	Add Moderna COVID-19 (6M-5Y) and update description of Moderna COVID-19 Vaccine
4.3	14-Jun-2022	Zac Derenne	Add Prehevbrio Hep B Adult and VBI Vaccines MFG
4.4	22-Jun-2022	Zac Derenne	Add Comirnaty
4.5	07-Jul-2022	Zac Derenne	Add Moderna6-11Y/ 18+Booster
4.6	19-Jul-2022	Zac Derenne	Add Novavax COVID-19 Vaccine
4.7	17-Aug-2022	Zac Derenne	Add Spikevax
4.8	12-Sep-2022	Zac Derenne	Add Pfizer BvIntBstr 5-11, Pfizer BvIntBstr 12+, Moderna BvIntBstr
4.9	29-Sep-2022	Zac Derenne	Add Smallpox CPT; update Jynneos description; Update ACAM2000 MFG to MIP; Add MSP manufacturer; Change Vaxelis MFG to MSP
5.0	19-Oct-2022	Zac Derenne	Change PaxVax to Emergent Travel Health, mark Organon Teknika as inactive, change BCG-TB's MFG to MSD
5.1	29-Nov-2022	Zac Derenne	Add Priorix, Moderna BvIntBstr 6M-5Y (91316 CPT), and Pfizer BvIntBstr 6M-4Y
5.2	10-Feb-2023	Zac Derenne	Add Left Posterior Chest, Right Posterior Chest,

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			and Bilateral Nares on the Body Site table. Corrected the spelling of "Gluteus" on the Body Site table. Update Descriptions for FLUZONE Quad HighDose PF, MenQuadfi, and FLUAD Quadrivalent. Add COVID-19 unspecified.
5.3	12-Jul-2023	Shriya Shrestha	Add TicoVac 0.5 mL and TicoVac 0.25 mL for dose 0.5mL,0.25mL and unspecified. Update Smallpox monkeypox to "Smallpox mpox vaccine" and it's description. Update Meningo (Trade name: Menquadfi) Description.
5.4	28-Aug-2023	Zac Derenne	Add Arexvy, Abrysvo, and RSV unspecified to Vaccine Codes List.
5.5	19-Sep-2023	Zac Derenne	Add Comirnaty (2023-24) 12+, Pfizer (2023-24) 5Y-11Y, Pfizer (2023-24) 6M-4Y, Moderna (2023-24) 6M-11Y, Spikevax (2023-24) 12+ to Vaccine Codes table
5.6	29-Sep-2023	Shriya Shrestha	Add Beyfortus 50mg and 100mg.
5.7	09-Oct-2023	Shriya Shrestha	Add Novavax (2023-2024 Formula) 12+, RSV vaccine, unspecified and RSV mAb, unspecified to vaccine code list.