



**Department
of Health**

Implementing a Vaccine Management System at the IIS Level

Megan D Meldrum

megan.meldrum@health.ny.gov

New York State Immunization Information System

Background



NYSIIS

- WIR Based
- Supported by HP
- State mandated for persons under 19 years of age
- New York State outside of New York City

NYSIIS

- What we had...
- To add new vaccine information relied on HP
 - Takes Time
 - Write a Change Request
 - Work into release schedule
 - Testing

NYSIIS

- What we wanted
 - Ability to add new vaccine information or edit existing information within UI
 - CVX
 - CPT
 - MVX
 - Tradename

The Plan

- Use functionality currently existing in background
- Add screens to NYSIIS
 - Only NYSIIS staff and HP may access screens
 - Data submission only
 - Not NDC codes
 - So it will be... *EASY*

How it works – The Happy Path

Manage Vaccine

Vaccine Search Criteria

Vaccine Group:

Find

Vaccine Name:

CPT:

Trade Name:

CVX:

If search results exceed 30 results, you will be required to narrow your search criteria.

Add New Vaccine

Regen Crosswalk

Vaccine Group

Vaccine Name


CVX Code

Trade Name

CPT Code



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**New York State
Immunization
Information System**


QA Region 5.2.0

.....

Patients
enter new patient
merge patients
manage patient

Immunizations
manage immunizations

Reports
check billing export
doses administered
check reminder status
manage custom letters
request callback
cocasa extract
check request status
vfc report
vfc report totals

[home](#) [manage access/account](#) [forms](#) [related links](#) [logout](#) [help desk](#) 

organization **IR Physicians** • user **Megan Meldrum** • role **IR Developer**

Validation Errors

- Search Criteria exceeds 30 results. Enter additional information to narrow search criteria.

Manage Vaccine

Vaccine Search Criteria

Vaccine Group: Influenza ▼

Vaccine Name:

Trade Name:

Find

CPT:

CVX:

If search results exceed 30 results, you will be required to narrow your search criteria.

Regen Crosswalk

Add New Vaccine

Vaccine Group	Vaccine Name	CVX Code	Trade Name	CPT Code
---------------	--------------	----------	------------	----------

Manage Vaccine

Vaccine Search Criteria

Vaccine Group:

Vaccine Name:

Trade Name:

Find

CPT: 90360

CVX:

If search results exceed 30 results, you will be required to narrow your search criteria.

Add New Vaccine

Regen Crosswalk

Vaccine Group

Vaccine Name

CVX Code

Trade Name

CPT Code



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Manage Vaccine

Vaccine Search Criteria

Vaccine Group: Vaccine Name: CPT: Trade Name: CVX:

If search results exceed 30 results, you will be required to narrow your search criteria.

Vaccine Group

Vaccine Name

CVX Code

Trade Name

CPT Code

Add/Edit Vaccine

Vaccine Information

* Vaccine Group:

Display Name

Adeno
Anthrax
BCG
Cholera
DTP/aP

Remove
Add

Vaccine belongs in groups

Influenza

* Vaccine Name:

Body Route:

Body Site:

CVX Code:

CPT Code Information

CPT Code	Minimum Age	Minimum Age Attribute	Maximum Age	Maximum Age Attribute	Start Date	Stop Date	Reject
----------	-------------	-----------------------	-------------	-----------------------	------------	-----------	--------

Trade Name Information

Trade Name	Manufacturer Code	CPT Code	NDC's existing for this Trade Name
------------	-------------------	----------	------------------------------------

Add/Edit Vaccine

Vaccine Information

* Vaccine Group:

Display Name:
Anthrax
BCG
Cholera
DTP/aP

Vaccine belongs in groups:

* Vaccine Name:

Body Route: Body Site: CVX Code:

CPT Code Information

CPT Code	Minimum Age	Minimum Age Attribute	Maximum Age	Maximum Age Attribute	Start Date	Stop Date	Reject
----------	-------------	-----------------------	-------------	-----------------------	------------	-----------	--------

Trade Name Information

Trade Name	Manufacturer Code	CPT Code	NDC's existing for this Trade Name
------------	-------------------	----------	------------------------------------

Add/Edit Vaccine

Vaccine Information

* Vaccine Group:

Display Name

Adeno
Anthrax
BCG
Cholera
DTP/aP

Vaccine belongs in groups

Influenza

* Vaccine Name:

Body Route: Body Site: CVX Code:

CPT Code Information

CPT Code	Minimum Age	Minimum Age Attribute	Maximum Age	Maximum Age Attribute	Start Date	Stop Date	Reject
<input type="text"/>	<input type="text"/>	<input type="text" value="v"/>	<input type="text"/>	<input type="text" value="v"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="v"/> <input type="button" value="Delete"/>

Trade Name Information

Trade Name	Manufacturer Code	CPT Code	NDC's existing for this Trade Name
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Add/Edit Vaccine

Vaccine Information
Add New
Save
Cancel
Delete Vaccine

* Vaccine Group:

Display Name

Adeno
Anthrax
BCG
Cholera
DTP/aP

Remove
Add

Vaccine belongs in groups

Influenza

* Vaccine Name:
Demo Flu Vaccine

Body Route:

Body Site:

CVX Code:
661

CPT Code Information
Add New CPT

CPT Code	Minimum Age	Minimum Age Attribute	Maximum Age	Maximum Age Attribute	Start Date	Stop Date	Reject
<div> Trade Name Information </div> <div> <div> Trade Name Manufacturer Code CPT Code NDC's existing for this Trade Name </div> <div> Save and Add New TradeName </div> </div>							

Save
Cancel

Add/Edit Trade Name Details

Trade Name Information

Vaccine Name: Demo Flu Vaccine

Save

Cancel

Trade Name

Active?

NDCs existing for this Trade Name

Demo TN1

Yes ▼

Will only appear when editing an existing Trade Name

Manufacturer Information

Add New Manufacturer

Manufacturer Name

Inception Date

Termination Date

CPT Code Information

Add New CPT

CPT
CodeMinimum
AgeMinimum Age
AttributeMaximum
AgeMaximum Age
AttributeStart
DateStop
Date

Reject

Save

Cancel



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Add/Edit Trade Name Details			
Trade Name Information		Vaccine Name: Demo Flu Vaccine	<input type="button" value="Save"/> <input type="button" value="Cancel"/>
Trade Name	Active?	NDCs existing for this Trade Name	
Demo TN1	Yes <input type="button" value="v"/>	No NDC Information Available	<input type="button" value="Delete TradeName"/>

Manufacturer Information			<input type="button" value="Add New Manufacturer"/>
Manufacturer Name	Inception Date	Termination Date	
ADAMS LABORATORIES - AD (Y)			<input type="button" value="Delete"/>
Abbott Laboratories (Ross Products Division) - AB (Y)			
Akorn, Inc. - AKR (Y)			
Alpha Therapeutic Corporation - ALP (Y)			
Aventis Behring L.L.C. - AVB (N)			
Aviron - AVI (N)			
Barr Laboratories - BRR (Y)			
Baxter Healthcare Corporation - BA (N)			
Baxter Healthcare Corporation - BAH (Y)			
Bayer Corporation - BAY (N)			
Berna Products Corporation - BPC (Y)			
Biotest Pharmaceuticals Corporation - BTP (Y)			
CSL Behring, Inc. - CSL (Y)			
Cangene Corporation - CNJ (Y)			
Centeon - CEN (N)			
Chiron Corporation - CHI (N)			
DynPort Vaccine Company, LLC - DVC (Y)			
Emergent BioDefense Operations Lansing - MIP (Y)			
Evans Medical Limited - EVN (N)			
GeoVax Labs, Inc. - GEO (Y)			
GlaxoSmithKline - SKB (Y)			
Greer Laboratories Inc. - GRE (Y)			
Grifols Therapeutics, Inc - GRF (Y)			
ID Biomedical - IDB (Y)			
Immuno International Ag - IAG (N)			
Immuno-U.S., Inc. - IUS (Y)			
Intercell Biomedical - INT (Y)			
Korea Green Cross Corporation - KGC (Y)			
Massachusetts Biologic Laboratories - MBL (Y)			

Stop Date	Reject



Add/Edit Trade Name Details

Trade Name Information

Vaccine Name: Demo Flu Vaccine

Save

Cancel

Trade Name

Active?

NDCs existing for this Trade Name

Demo TN1

Yes ▼

[No NDC Information Available](#)

Delete TradeName

Manufacturer Information

Add New Manufacturer

Manufacturer Name

Inception Date

Termination Date

Sanofi Pasteur - PMC (Y) ▼





Delete

CPT Code Information

Add New CPT

CPT Code

Minimum Age

Minimum Age Attribute

Maximum Age

Maximum Age Attribute

Start Date

Stop Date

Reject

96330

▼

▼




▼

Delete

Save

Cancel



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Add/Edit Vaccine

Vaccine Information

Add New

Save

Cancel

* Vaccine Group:

Display Name

Adeno
Anthrax
BCG
Cholera
DTP/aP

Remove

Add

Vaccine belongs in groups

Influenza

* Vaccine Name: Demo Flu Vaccine

Body Route:

Body Site:

CVX Code:

661

CPT Code Information

Add New CPT

CPT Code	Minimum Age	Minimum Age Attribute	Maximum Age	Maximum Age Attribute	Start Date	Stop Date	Reject
----------	-------------	-----------------------	-------------	-----------------------	------------	-----------	--------

Trade Name Information

Save and Add New TradeName

Trade Name	Manufacturer Code	CPT Code	NDC's existing for this Trade Name
Demo TN1	PMC	96330	No NDC Information Available

Save

Cancel

Manage Vaccine

Vaccine Search Criteria

Vaccine Group:

Find

Vaccine Name:

CPT:

Trade Name:

CVX:

If search results exceed 30 results, you will be required to narrow your search criteria.

Add New Vaccine

Regen Crosswalk

	Vaccine Group	Vaccine Name	CVX Code	Trade Name	CPT Code
Edit	Influenza	(1329) Demo Flu Vaccine	661	Demo TN1	96330

Manage Vaccine

Vaccine Search Criteria

Vaccine Group:

Find

Vaccine Name: CPT: Trade Name: CVX:

If search results exceed 30 results, you will be required to narrow your search criteria.

Add New Vaccine

Regen Crosswalk

	Vaccine Group	Vaccine Name	CVX Code	Trade Name	CPT Code
Edit	Influenza	(1329) Demo Flu Vaccine	661	Demo TN1	96330

Add/Edit Vaccine

Vaccine Information

* Vaccine Group:

Display Name

Adeno
Anthrax
BCG
Cholera
DTP/aP

Vaccine belongs in groups

Influenza

* Vaccine Name:

Body Route: Body Site: CVX Code:

CPT Code Information

CPT Code	Minimum Age	Minimum Age Attribute	Maximum Age	Maximum Age Attribute	Start Date	Stop Date	Reject
----------	-------------	-----------------------	-------------	-----------------------	------------	-----------	--------

Trade Name Information

Trade Name	Manufacturer Code	CPT Code	NDC's existing for this Trade Name
<u>Demo TN1</u>	PMC	96330	No NDC Information Available

Add/Edit Trade Name Details

Trade Name Information
Vaccine Name: Demo Flu Vaccine
Save
Cancel

Trade Name
Active?
NDCs existing for this Trade Name

Demo TN1
Yes
[No NDC Information Available](#)
Delete TradeName

Manufacturer Information
Add New Manufacturer

Manufacturer Name
Inception Date
Termination Date

Sanofi Pasteur - PMC (Y)
Delete

CPT Code Information
Add New CPT

CPT Code
Minimum Age
Minimum Age Attribute
Maximum Age
Maximum Age Attribute
Start Date
Stop Date
Reject

96330
Delete

Save
Cancel

Manage NDC Information

* Vaccine Group: Influenza ▼

* Trade Name: Demo TN1 ▼

Add New

NDC Number	Packaging Description	Manufacturer Name	Status
------------	-----------------------	-------------------	--------

No NDC Information Available.

Enter/Edit NDC

Trade Name **Demo TN1**Vaccine **Demo Flu Vaccine**CVX **661**CPT **90360*** NDC

(Labeler-Product-Package)

* Packaging Description * Dose Size mL * Units Per Package * Dose Per Unit * Manufacturer * Status ☒ Active ☐ Inactive* Direct Ship Campaign Intention

Inner NDC Listing:

Select Existing Inner NDC or Enter New Inner NDC (Labeler-Product-Package)

Inner NDCs

☐

98762-0543-12

Note:

Inner NDC is found on the Unit of Use (ex: Vial, Syringe, etc...)


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Manage NDC Information* Vaccine
Group:

Influenza

* Trade
Name:

Demo TN1



Add New

NDC Number**Packaging Description****Manufacturer
Name****Status**[12374-0569-01](#)

big box of vaccine

Sanofi Pasteur

Active

Add Vaccine Inventory Information

Site: NYS Department of Health

Save

Trade Name: Demo TN1



Cancel

Manufacturer: Sanofi Pasteur



Funding Type: Public



NDC: 12374-0569-01



big box of vaccine

Lot Number:

Note: Please enter Lot Number found on OUTER Packaging

Expiration Date:



Lot Active: Yes



Doses on Hand:

Cost Per Dose (\$):

Reality



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On further testing....

NOT so Easy

- Discovered variations in how vaccines were set up in the past
 - New teams
 - New requirements

further testing...

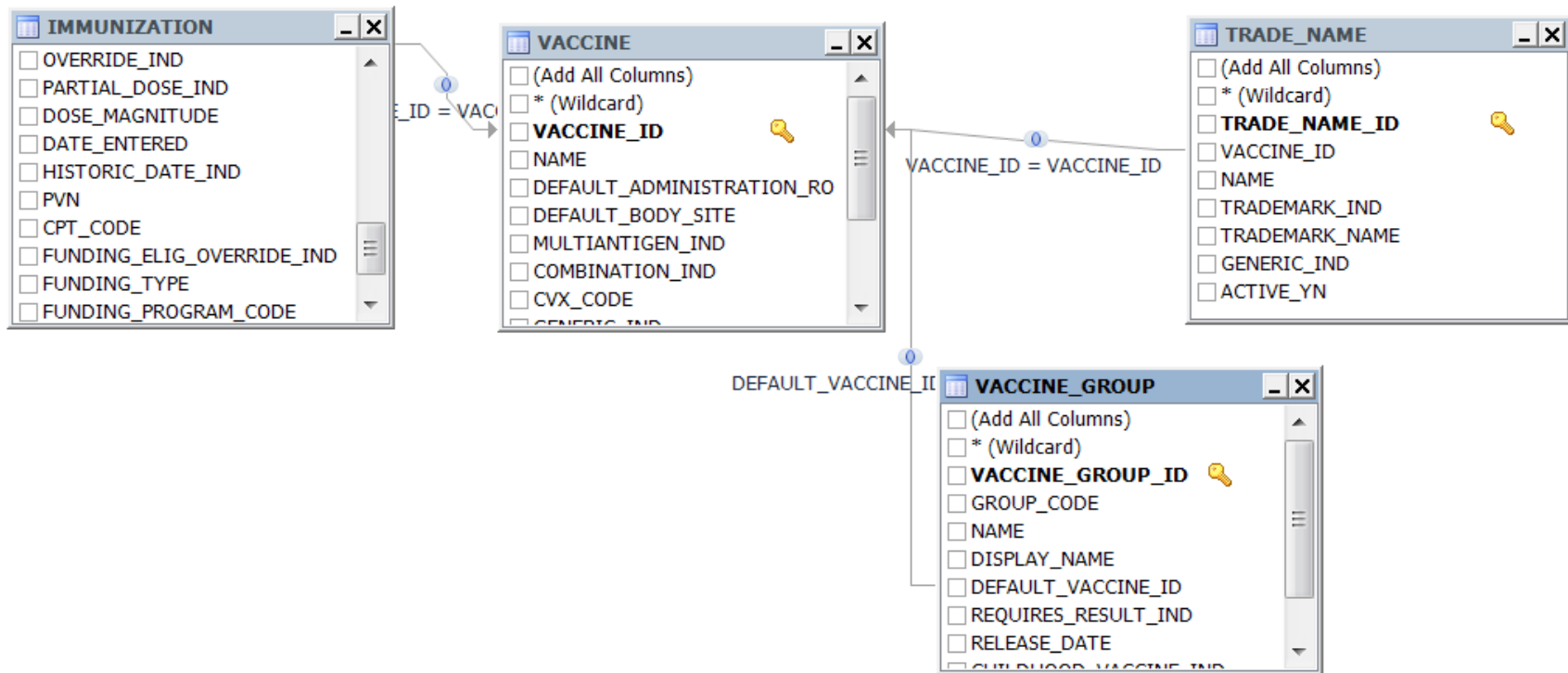
- How CPT code was linked – tradename vs vaccine
 - Changed how data stored in tables
 - When CPT was stored
 - Which CPT was stored
- Changes how data should be used for analysis

further testing...

- How we visualize our data:

Vaccine Group	Vaccine Name	CVX Code	Trade Name	CPT Code
MeningB	(927) meningococcal B, OMV	163	Bexsero	90620
MeningB	(928) meningococcal B, recombinant	162	Trumenba	90621

- How our data is actually stored:



Time to Dig

- Evaluate current vaccine code relationships
 - Compare vaccine/tradename scenarios
 - When the set up varied
 - Why the set up varied

Scenario	DX-cvx only		DX-cpt only - for each cpt		DX-Trade Name only - for each trade name		DX-Vaccine Group only		DX-cvx and cpt for each cpt		DX-cvx and vaccine group		DX-cpt and vaccine group for each cpt		DX-Trade Name and Vaccine Group for each trade name		DX-CVX and Trade Name for each trade name		DX-CPT and Trade Name - for each cpt-trade name combo		UI Historical		UI From Other	
	Trade Name	CPT	Trade Name	CPT	Trade Name	CPT	Trade Name	CPT	Trade Name	CPT	Trade Name	CPT	Trade Name	CPT	Trade Name	CPT	Trade Name	CPT	Trade Name	CPT	Trade Name	CPT	Trade Name	CPT
no trade names - cpt assigned at vaccine																								
Single Trade Name for a Vaccine - Vaccine Level only - current Kinrix	Y	N	Y	Y	Y	N	N	N	Y	Y	Y	Y	Y	Y	N	Y	N	Y	Y	Y	Y	Y	Y	Y
**Adeno T4 a little different than Kinrix - WHY? Is this because Adeno is only assigned to a single vaccine group?	Y	N	Y	Y	Y	N	N	N	Y	Y	Y	N	Y	Y	N	Y	N	Y	Y	Y	Y	Y	Y	Y
Anthrax	Y	N	Y	Y	Y	N	Y	N	Y	Y	Y	N	Y	Y	N	Y	N	Y	Y	Y	Y	Y	Y	N
**KV new one	Y	N	Y	Y	Y	N	Y	N	Y	Y	Y	N	Y	Y	N	Y	N	Y	Y	Y	Y	Y	Y	Y
Single Trade Name for a Vaccine - Trade Name Level only (Pentacel)	Y	Y	Y	Y	Y	Y	N	N	Y	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
**KV new one (is the difference with vaccine group assignment that this vaccine is assigned to a single vaccine group as opposed to pentacel)	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Trumenba & Bexsero	Y	Y	Y	Y	Y	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Single Trade Name for a Vaccine - Vaccine and Trade Name Level (**kv new one)	Y	Y	Y	Y	Y	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Single Trade Name, no CPT (Adenovirus Types 4 and 7),kvfy1	Y				Y		N/Y				Y				Y		Y				Y		Y	
Multiple Trade Names for a Vaccine - Vaccine Level only	N	Y	N	Y	Y	N	N	N	N	Y	N	Y	N	Y	N	Y	N	Y	Y					
Acel-Imune, Certiva, Infanrix, Tripedia	N	Y	N	Y	Y	N	N	N	N	Y	N	Y	N	Y	N	Y	N	Y	Y	Y	Y	Y	Y	Y
Multiple Trade Names for a Vaccine - Trade Name Level only	N	N	N	Y	Y	N	N	N	N	Y	N	N	N	Y	Y	Y	Y	Y	Y					
Multiple Trade Names for a Vaccine - Vaccine and Trade Name Level	N	Y	N	Y	Y	Y	N	N	N	Y	N	Y	N	Y	Y	Y	Y	Y	Y					
multiple trade names and an unassigned within the same Vaccine - ex: BCG	N	Y	Y	Y	Y	Y	N	Y	Y	Y	N	Y	Y	Y										
BCG unassigned	N	Y	N	Y			N	N	N	Y	N	Y	N	Y										
multiple trade names and an unassigned within the same vaccine - but two different cpts at vaccine level - ex: HepB-Dialysis	N	Y 90740	N	Y	Y	Y 90747	N	Y	N	Y	N	Y	N	Y	Y	Y 90747	Y	Y 90747	Y-90747 N-90740	Y	Y	Y	Y	Y

- Single trade name assigned a Vaccine/CVX

Vaccine group	Vaccine	CVX	CPT/Vaccine	Tradename	CPT/tradename
Adeno	(1) Adeno T4	54	90476	Adeno T4	
Adeno	(2) Adeno T7	55	90477	Adeno T7	
Adeno	(858) Adenovirus Types 4 and 7	143		Adeno Types 4 and 7	

- CVX Only (cvx 54) – are we not picking up the CPT code here because of the trade name.

Trade_name_id	Vaccine_id	CPT_CODE
1	1	

- Trade Name Only

Trade_name_id	Vaccine_id	CPT_CODE
1	1	

Examples

- Unspecified Vaccine shares same CVX and CPT as other Trade Names, and do want CPT assigned to unspecified
- Multiple trade names are assigned the same vaccine/CVX but each with individual CPT codes, and a separate code for unspecified

Examples

BCG	(4) BCG	19		BCG-Cancer	90586
BCG	(4) BCG	19		BCG-TB	90585
BCG	(4) BCG	19	90728		

DX

- CVX Only (19) – why is this working that it defaults the CPT_code vs for example Adeno T4 where assigning the CVX only does not default the cpt code. So what would happen here, if we assigned a trade name to the unspecified.

Trade_name_id	Vaccine_id	CPT_CODE
	4	90728

Examples

- Multiple trade names are assigned the same vaccine/CVX, all with same CPT, and do want to assign same to unspecified trade name

All trade names use the same CPT

1	DTP/aP	(15) DTaP	20	90700	Acel-Imune	
2	DTP/aP	(15) DTaP	20	90700	Certiva	
3	DTP/aP	(15) DTaP	20	90700	Infanrix	
4	DTP/aP	(15) DTaP	20	90700	Tripedia	

DX

- CVX Only example 1

Trade_name_id	Vaccine_id	CPT_CODE
	15	90700

- Trade Name Acel-Imune Only 3

Trade_name_id	Vaccine_id	CPT_CODE
5	15	

- Trade Name Certiva Only 4

Trade_name_id	Vaccine_id	CPT_CODE
11	15	

- Trade Name Infanrix Only 5

Trade_name_id	Vaccine_id	CPT_CODE
51	15	

- Trade Name Tripedia Only 6

Trade_name_id	Vaccine_id	CPT_CODE
83	15	

Examples

Single trade name assigned a Vaccine/CVX

- Our new policy has been to assign the CPT at the Trade Name level.

Examples

Vaccine Group	Vaccine	CVX	Vaccine CTP	Trade Name	Trade CPT
Mening	(123) Meningococcal-MCV4P	114		Menactra	90734
Mening	(855) Meningococcal-MCV4O	136		Menveo	90734
Mening	(856) Meningococcal-MCV4		90734	Mening MCV4	

DX:

- CVX 114 Only

Trade_name_id	Vaccine_id	CPT_CODE
124	123	90734

- CVX 136 Only

Trade_name_id	Vaccine_id	CPT_CODE
358	855	90734

- CPT 90734 Only

Trade_name_id	Vaccine_id	CPT_CODE
359	856	90734

Examples

- Multiple trade names are assigned the same vaccine/CVX, all with same CPT

HepB	(32) HepB-Dialysis	44	90747, 90740	Engerix-B dialysis	90747
HepB	(32) HepB-Dialysis	44	90747, 90740	Recombivax-Dialysis	90747

- CVX Only (is it that when this was first inserted. Open question. Should the 90747 only be assigned at trade name level, and 90740 be assigned at vaccine level.

Trade_name_id	Vaccine_id	CPT_CODE
	32	90747 (why did it pick this one instead of 90740?)

- CPT 90740 Only

Trade_name_id	Vaccine_id	CPT_CODE
	32	90740

- CPT 90747 Only

Trade_name_id	Vaccine_id	CPT_CODE
	32	90747

- Trade Name Recombivax-Dialysis

Trade_name_id	Vaccine_id	CPT_CODE
42	32	90747

- Trade Name Engerix-B dialysis

Trade_name_id	Vaccine_id	CPT_CODE
108	32	90747

What Now?



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“Final” steps

- Know **how** it was set up now determine ...
 - What needs to be fixed
 - What can we live with
- Set “rules” for the future
- The quick “cheat” sheet became a novel

Vaccine Manual

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Suggestions on how to set up CPT

Scenarios	Examples	Recommendation
no Trade Names - CPT assigned at Vaccine level	<u>HepA</u> – CVX 85	CPT/CPTs assigned at vaccine level
Single Trade Name for a Vaccine	<u>Pentacel</u>	<p>Suggestion is to assign at Trade Name level.</p> <p>Assignment of the CPT code on Trade Name level populates the CPT both when CVX is sent in via DX and when Trade Name is sent via DX.</p>
Vaccine with multiple Trade Names all associate to the same CPT	Vaccine(<u>DTaP</u> -IPV)	<p>Suggestion is to assign at both Vaccine and Trade Name level.</p> <p>Assignment of the CPT code on Vaccine level populates the CPT when CVX is sent via DX.</p> <p>Assignment of the CPT code on Trade Name level populates the CPT when Trade Name is sent via DX.</p>

Suggestions on how to set up CPT

Scenarios	Examples	Recommendation
Vaccine with multiple Trade Names, all trade names associate to the same CPT, except the unassigned	Vaccine (HepB-Dialysis)-trade names	<p>Suggestion is to assign only the CPT code for the unassigned at the Vaccine Level and the other CPT the trade name level.</p> <p>Assignment of the CPT code on Vaccine level populates the CPT when CVX is sent via DX.</p> <p>Assignment of the CPT code on Trade Name level populates the CPT when Trade Name is sent via DX.</p>
Multiple CPTs at vaccine level due to CPT age or date rules	Vaccine (Flu trivalent injectable p-free)	<p>Flu example has the trade names assigned at both the trade name and vaccine level. Validation in data exchange will reject a RXA with the cpt specified if the age at vaccination falls outside the age rules range.</p>
Multiple CPTs at trade name level due to CPT age or date rules	Vaccine: Rotavirus, Tet, trade name(RotaShield) Vaccine: Rotavirus, Pent, trade name(RotaTeq)	<p>Tradename level – with age/date rules</p>

Looking back

- This was a ‘good’ thing
 - Opportunity to review current functionality
 - Determine what to correct
 - Better understand how to use data



Questions