

The New Immunization History Module

Overview With the rollout of HealthOffice version 5.4, the immunization module was completely revamped. The new Immunization module represents changes our users have requested, as their immunization documentation and requirements increasingly changed over the last three years.

Healthmaster would like to acknowledge and thank all of the approximately 60 Nurses across the country that participated and contributed in the design changes that Healthmaster now makes available to all users.

FAQ Why have the screens changed?

Healthmaster made these changes:

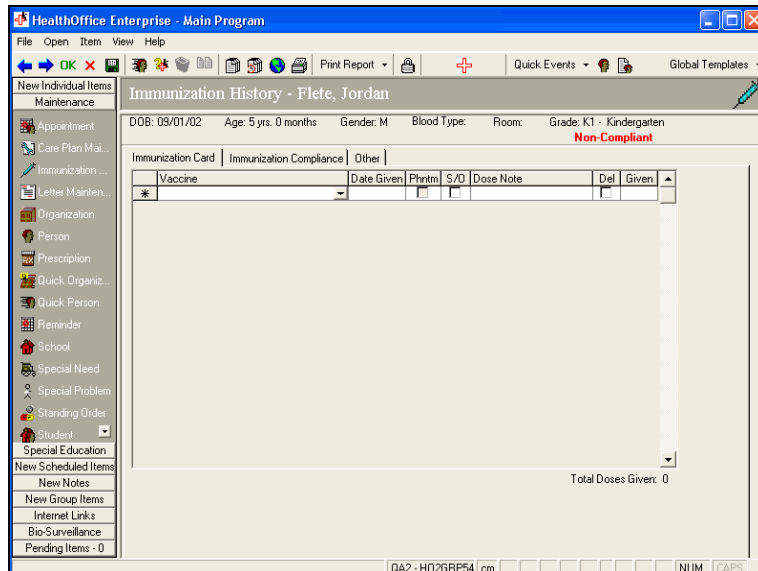
- To accommodate the new vaccines and immunization requirements sweeping across our country, state by state.
- Because the old Immunization History module, while simplistic, had no way to accommodate the new vaccines required by states. Nurses made it clear to us that changes were needed.

The Immunization Card

Data Entry While the data entry is different from before, it is easy and was designed to accommodate various data entry techniques, whether users prefer to move about the screen “keyboarding” or by using a combination of the keyboard and the mouse.

Shown below are a few techniques which can be used to quickly enter data into the Immunization Card screen:

Example of a blank Immunization Card, ready for data entry:



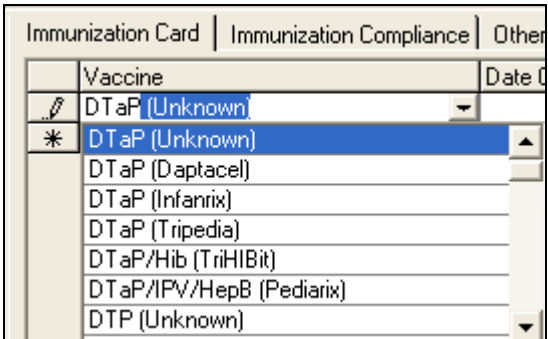
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Keyboard Users

For those who like to use just the keyboard here is one example of how this can be entered:

- **Series:** Diphtheria, Tetanus, and Pertussis
- **Vaccine:** DTaP, but the actual brand name of vaccine is not known/

Action	Result
<p>1. Click in the first box and enter in the letter “d”.</p>	<p>The list of vaccines for DT, DTaP and DTP are all displayed.</p> <p>You may:</p> <ul style="list-style-type: none"> • Use the down arrow on the keyboard to move to DTaP (Unknown) vaccine. <p>OR</p> <ul style="list-style-type: none"> • Type in dta on the keyboard and DTaP (Unknown) is highlighted and inserted into the Vaccine field. 
<p>2. Use the keyboard Tab key, as the vaccine of DTaP (Unknown) is in place.</p>	<p>The cursor moves to the “Date Given” field in the next column.</p>
<p>3. Enter the date using two digits for the month, day and year.</p> <p>Example: 110502</p>	<p>The system automatically enters the backslash (/) character, so the field will display as if you entered 11/05/02.</p> <p>The program will not error if you insert the slashes, but why bother, when the program will enter it for you?</p> <p>The first line of data entry is complete. You are ready to move down to the next line.</p>

Tip:
If you hit the Enter key on the keyboard and then use the Tab key to move to the next column that will also work.

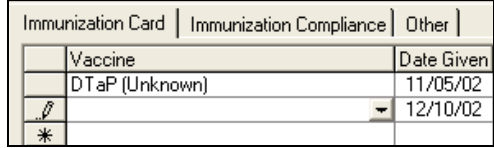
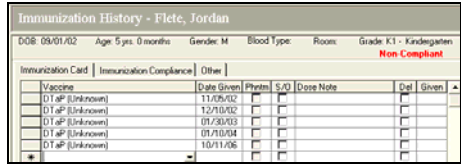
The idea is to get into a rhythm of keying that works for you.

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Moving to the next line

Since the first dose of Diphtheria, Tetanus and Pertussis series is complete, moving on to the next line of entry can be done several different ways, it is up to you.

Action	Results
1. Use the down arrow from the <i>Date Given</i> field to move to the next line.	The cursor is displayed in the next available line.
2. Enter the next dose date then use the “Shift and Tab” keys to back space to the Vaccine field, OR Use the left arrow key to move from the <i>Date Given</i> field of the first line and then use the down arrow to move into the Vaccine line and you are ready to key a letter or letters to view and select the vaccine name.	<p>Example is displayed:</p>  <p>As you can see, it makes no difference which order data is entered on a line. You may enter the dose date first and then choose the vaccine name if desired.</p>
3. Continue entering vaccine and dose date until the DTaP vaccine data is complete.	<p>Example is displayed:</p> 

Using a Combination of Keyboard and Mouse

Many data entry users use a combination of the mouse and keyboard when entering various data.

Using the same example of four or five doses of DTaP and the brand is not known, here is another approach that can be used to enter data and move down the card:

Action	Results
1. Click on the Vaccine column field and key in the letter “d” to display the vaccine listing.	The Vaccine list is displayed.
2. Click on the vaccine of DTaP (Unknown) and continue	The DTaP (Unknown) is displayed in the Vaccine column.

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Action	Results																											
<p>3. Use the down arrow to move to the row below, OR Use the mouse repeating step two until you have all 4 or 5 lines with the vaccine information completed.</p>	<p>Example is displayed:</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="3" style="text-align: left; padding: 2px;">Immunization History - Flete, Jordan</th> </tr> <tr> <td style="font-size: small;">DOB: 09/01/02</td> <td style="font-size: small;">Age: 5 yrs. 0 months</td> <td style="font-size: small;">Gender: M</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Immunization Card</td> <td style="border: 1px solid black; padding: 2px;">Immunization Compliance</td> <td style="border: 1px solid black; padding: 2px;">Other</td> </tr> <tr> <th style="width: 80%; border: 1px solid black; padding: 2px;">Vaccine</th> <th style="width: 20%; border: 1px solid black; padding: 2px;">Date Given</th> <td></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">DTaP (Unknown)</td> <td style="border: 1px solid black; padding: 2px;"></td> <td></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">DTaP (Unknown)</td> <td style="border: 1px solid black; padding: 2px;"></td> <td></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">DTaP (Unknown)</td> <td style="border: 1px solid black; padding: 2px;"></td> <td></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">DTaP (Unknown)</td> <td style="border: 1px solid black; padding: 2px;"></td> <td></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">DTaP (Unknown)</td> <td style="border: 1px solid black; padding: 2px;"></td> <td></td> </tr> </table> </div>	Immunization History - Flete, Jordan			DOB: 09/01/02	Age: 5 yrs. 0 months	Gender: M	Immunization Card	Immunization Compliance	Other	Vaccine	Date Given		DTaP (Unknown)			DTaP (Unknown)			DTaP (Unknown)			DTaP (Unknown)			DTaP (Unknown)		
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<p>4. Click in <i>Date Given</i> column on the first line of DTaP (Unknown).</p>	<p>The cursor is flashing in the center of the <i>Date Given</i> column.</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 80%; border: 1px solid black; padding: 2px;">Vaccine</th> <th style="width: 20%; border: 1px solid black; padding: 2px;">Date Given</th> </tr> </thead> <tbody> <tr> <td style="border: 1px solid black; padding: 2px;">▶ DTaP (Unknown)</td> <td style="border: 1px solid black; padding: 2px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">DTaP (Unknown)</td> <td style="border: 1px solid black; padding: 2px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">DTaP (Unknown)</td> <td style="border: 1px solid black; padding: 2px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">DTaP (Unknown)</td> <td style="border: 1px solid black; padding: 2px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">DTaP (Unknown)</td> <td style="border: 1px solid black; padding: 2px;"></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">*</td> <td style="border: 1px solid black; padding: 2px;"></td> </tr> </tbody> </table> </div>	Vaccine	Date Given	▶ DTaP (Unknown)		DTaP (Unknown)		DTaP (Unknown)		DTaP (Unknown)		DTaP (Unknown)		*														
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<p>5. Enter all six digits of the first dose date (mmddy). Example: 110502</p>	<p>There is no need to enter the slashes (/), as the program automatically inserts the slashes for you. The date displays in the <i>Date Given</i> field as 11/05/02.</p>																											
<p>6. Continue to use either the down-arrow on the keyboard or the mouse to click in the next <i>Date Given</i> line until all dates have been entered.</p>	<p>Example is displayed:</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="font-size: small;">DOB: 09/01/02</td> <td style="font-size: small;">Age: 5 yrs. 0 months</td> <td style="font-size: small;">Gender: M</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Immunization Card</td> <td style="border: 1px solid black; padding: 2px;">Immunization Compliance</td> <td style="border: 1px solid black; padding: 2px;">Other</td> </tr> <tr> <th style="width: 80%; border: 1px solid black; padding: 2px;">Vaccine</th> <th style="width: 20%; border: 1px solid black; padding: 2px;">Date Given</th> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">DTaP (Unknown)</td> <td style="border: 1px solid black; padding: 2px;">11/05/02</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">DTaP (Unknown)</td> <td style="border: 1px solid black; padding: 2px;">12/10/02</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">DTaP (Unknown)</td> <td style="border: 1px solid black; padding: 2px;">01/30/03</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">DTaP (Unknown)</td> <td style="border: 1px solid black; padding: 2px;">01/10/04</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">DTaP (Unknown)</td> <td style="border: 1px solid black; padding: 2px;">10/11/06</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">*</td> <td style="border: 1px solid black; padding: 2px;"></td> </tr> </table> </div>	DOB: 09/01/02	Age: 5 yrs. 0 months	Gender: M	Immunization Card	Immunization Compliance	Other	Vaccine	Date Given	DTaP (Unknown)	11/05/02	DTaP (Unknown)	12/10/02	DTaP (Unknown)	01/30/03	DTaP (Unknown)	01/10/04	DTaP (Unknown)	10/11/06	*								
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Other Features

Here are several features you may or may not realize are in place in the new 5.4 Immunization History module:

- The vaccine names and dates do not have to be entered in any order.
We automatically sort the list on the card for you. Even if the data is imported into the system and the dates submitted via import are all out of date order, the program Immunization Card lists the dates by vaccine, in date order.
- When a combination vaccine is entered for a dose all series are automatically marked i.e. MMR marks Measles, Mumps and Rubella all at once.
- You can elect to delete a vaccine entry without the need to highlight and use the Delete key. All you have to do is check the delete option on the line you wish to delete.

Vaccine	Date Given	Phntm	S/O	Dose Note	Del	Given	▲
DTaP (Unknown)	10/11/06	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>		

- You can correct a date on the Immunization Card by highlighting the date field and entering the complete six digit date (mmddy). The control used for the date field does not allow for the correction of just one portion of the date.
- You do not need to enter a date and save it, just enter **all** dates and then save the card. That is when the program will determine the status of each required series.

Immunization History - Flete, Jordan

DOB: 09/01/02 Age: 5 yrs. 0 months Gender: M Blood Type: Room: Grade: K1 - Kindergarten

Compliant

Immunization Card | Immunization Compliance | Other

Vaccine	Date Given	Phntm	S/O	Dose Note	Del	Given	▲
DTaP (Unknown)	11/05/02	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		
DTaP (Unknown)	12/10/02	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		
DTaP (Unknown)	01/30/03	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		
DTaP (Unknown)	01/10/04	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		
DTaP (Unknown)	10/11/06	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		
HepB (Unknown)	09/01/02	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		
HepB/Hib (Comvax)	10/25/02	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		
HepB/Hib (Comvax)	01/30/03	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		
HepB/Hib (Comvax)	01/10/04	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		
MMR (Unknown)	01/10/04	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		
MMRV (ProQuad)	08/01/07	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		
Polio (IPV) (Unknown)	11/05/02	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		
Polio (IPV) (Unknown)	01/10/04	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		
Polio (IPV) (Unknown)	10/11/06	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		
*		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		

Example of a completed Immunization Card: Notice that once saved it shows the Status of Compliant in **blue** or Non-Compliant in **red**. It also counts the Total Doses Given.

Total Doses Given: 14

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The Immunization Compliance screen

Overview

Once all doses have been entered and saved the Immunization Compliance screen reveals all information entered and provides a status for:

- Each dose entered – Whether it is valid or invalid
- Each series status – Whether it is Current, Complete, or Delinquent.

Immunization History - Flete, Jordan				
DOB: 09/01/02		Age: 5 yrs. 0 months		Gender: M
Blood Type:		Room:		Grade: K1 - Kindergarten
Compliant				
Series	Dose #	Vaccine Name	Date Given	Compliance
Polio	1	Polio (IPV) (Unknown)	11/05/2002	Valid
	2	Polio (IPV) (Unknown)	01/10/2004	Valid
	3	Polio (IPV) (Unknown)	10/11/2006	Valid
Dose Count: 3		Valid Doses: 3		Complete
Varicella	1	MMRV (ProQuad)	08/01/2007	Valid
	Dose Count: 1		Valid Doses: 1	Complete
Diphtheria	1	DTaP (Unknown)	11/05/2002	Valid
	2	DTaP (Unknown)	12/10/2002	Valid
	3	DTaP (Unknown)	01/30/2003	Valid
	4	DTaP (Unknown)	01/10/2004	Valid
	5	DTaP (Unknown)	10/11/2006	Valid
Dose Count: 5		Valid Doses: 5		Current
Tetanus	1	DTaP (Unknown)	11/05/2002	Valid
	2	DTaP (Unknown)	12/10/2002	Valid
	3	DTaP (Unknown)	01/30/2003	Valid
	4	DTaP (Unknown)	01/10/2004	Valid
	5	DTaP (Unknown)	10/11/2006	Valid
Dose Count: 5		Valid Doses: 5		Current
Pertussis	1	DTaP (Unknown)	11/05/2002	Valid
	2	DTaP (Unknown)	12/10/2002	Valid
	3	DTaP (Unknown)	01/30/2003	Valid
	4	DTaP (Unknown)	01/10/2004	Valid
	5	DTaP (Unknown)	10/11/2006	Valid
Dose Count: 5		Valid Doses: 5		Current
Measles	1	MMR (Unknown)	01/10/2004	Valid
	2	MMRV (ProQuad)	08/01/2007	Valid
Dose Count: 2		Valid Doses: 2		Complete
Mumps	1	MMR (Unknown)	01/10/2004	Valid
	2	MMRV (ProQuad)	08/01/2007	Valid
Dose Count: 2		Valid Doses: 2		Complete
Rubella	1	MMR (Unknown)	01/10/2004	Valid
	2	MMRV (ProQuad)	08/01/2007	Valid
Dose Count: 2		Valid Doses: 2		Complete
Hepatitis B	1	HepB (Unknown)	09/01/2002	Valid
	2	HepB/Hib (Comvax)	10/25/2002	Valid
	3	HepB/Hib (Comvax)	01/30/2003	Valid
	4	HepB/Hib (Comvax)	01/10/2004	Valid
Dose Count: 4		Valid Doses: 4		Complete
HIB	1	HepB/Hib (Comvax)	10/25/2002	Valid
	2	HepB/Hib (Comvax)	01/30/2003	Valid
	3	HepB/Hib (Comvax)	01/10/2004	Valid
Dose Count: 3		Valid Doses: 3		Complete
Influenza	No doses			
Dose Count: 0		Valid Doses: 0		Unscheduled
Pneumococcal	No doses			
Dose Count: 0		Valid Doses: 0		Unscheduled
Hepatitis A	No doses			
Dose Count: 0		Valid Doses: 0		Unscheduled
Meningococcal	No doses			
Dose Count: 0		Valid Doses: 0		Unscheduled
Rotavirus	No doses			
Dose Count: 0		Valid Doses: 0		Unscheduled
Miscellaneous	No doses			
Dose Count: 0		Valid Doses: 0		Unscheduled

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Immunization Compliance Fields

The Immunization Compliance screen consists of five columns:

Column	Description
Series	Lists all series, even those that may not be required for your state. The required vaccines will always be listed first. Unscheduled series will be listed in succession next. The series name represents the disease that the vaccine is given to prevent.
Dose #	There are two dose counts tracked: <ul style="list-style-type: none"> • On the left the Dose Count displays the total # of dose dates entered for a series. • The Valid Doses field displays the total number of valid doses for the series.
Vaccine Name	This column lists the vaccine name as selected or imported into the Immunization card. The vaccine could be different from one dose to the next. For example, this year a student entering school may have had one dose of MMR, but the second dose may have been given as the combination vaccine of MMRV. When a combination vaccine is selected the date entered populates in each series it represents. For example, MMRV applies the dose date under the series of Measles, Mumps, Rubella, and Varicella all with one entry.
Date Given	This column displays the date entered on the compliance card and will display in date order sequence within each series.
Compliance	The compliance column reflects two different areas: <ol style="list-style-type: none"> 1. The “Dose” status, which can reflect as Valid, Invalid or NA 2. The “Series” status which can reflect as Delinquent, Current, Complete, or Unscheduled.

The New Immunization History Module

Frequently Asked Questions

Because this is a completely new module we have received several questions that may be of assistance to users who are working with this new module for the first time.

Shown below are several examples of questions asked along with the response.

Question	Response														
<p>1. What is a “Miscellaneous” series shown on the Immunization Compliance screen?</p>	<p>Within the list of vaccines are other vaccines that can be given for treatment of a disease that are not part of school required immunizations, such as:</p> <table border="1" data-bbox="841 630 1409 766"> <tr> <td>Anthrax (Biothrax)</td> <td>Tetanus Toxioid Adsorbed (MA)</td> </tr> <tr> <td>Japanese Encephalitis (JE-Vax)</td> <td>TT (Generic)</td> </tr> <tr> <td>Rabies (BioRab)</td> <td>Typhoid (TYPHIM Vi)</td> </tr> <tr> <td>Rabies (Imovax Rabies)</td> <td>Typhoid (Vivotif) Berna</td> </tr> <tr> <td>Rabies (RabAvert)</td> <td>Vaccina (Smallpox) (Dryvax)</td> </tr> <tr> <td>Tetanus Toxioid (Unknown)</td> <td>Yellow Fever (YF-Vax)</td> </tr> <tr> <td>Tetanus Toxioid Adsorbed (sanofi)</td> <td>Zoster Vaccine Live (Zostavax)</td> </tr> </table> <p>An example might be a vaccine dose of “TT (Generic)”, which may have been given to treat a wound. It would not be counted as part of the Diphtheria or Tetanus requirement, but may be listed on the immunization card for the record.</p> <p>When a miscellaneous vaccine is recorded, it displays under the Miscellaneous series on the Immunization Compliance card.</p>	Anthrax (Biothrax)	Tetanus Toxioid Adsorbed (MA)	Japanese Encephalitis (JE-Vax)	TT (Generic)	Rabies (BioRab)	Typhoid (TYPHIM Vi)	Rabies (Imovax Rabies)	Typhoid (Vivotif) Berna	Rabies (RabAvert)	Vaccina (Smallpox) (Dryvax)	Tetanus Toxioid (Unknown)	Yellow Fever (YF-Vax)	Tetanus Toxioid Adsorbed (sanofi)	Zoster Vaccine Live (Zostavax)
Anthrax (Biothrax)	Tetanus Toxioid Adsorbed (MA)														
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Tetanus Toxioid Adsorbed (sanofi)	Zoster Vaccine Live (Zostavax)														
<p>2. My Hepatitis B shows an invalid dose status, but it shows the series status as Complete with three doses. Why?</p>	<p>Healthmaster had the unique opportunity to work directly with some states that have really responded to our system.</p> <p>In the case of the Hepatitis B series, the state only required 3 doses to meet the requirement for school attendance. The state requested Healthmaster to set the program to make nurses aware when a dose is administered at less than the minimum recommended interval or age.</p> <p>Allowing the system to work as described causes no extra work for any nurse, as compliance is met, but it could very well point out a pattern from a particular Doctor that could be corrected per any state’s procedures.</p>														

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Question	Response
<p>3. I have an invalid dose, but and my status is “Delinquent”. What do I do?</p>	<p>First, click on the invalid status and view the reason why the dose is invalid. It may be invalid for a number of reasons, such as the dose may have been given earlier than the minimum allowed interval or age allowed.</p> <p>Once you see why the dose is invalid, it is up to the nurse to determine whether the student needs to repeat the dose or not.</p> <ul style="list-style-type: none"> • If the dose must be repeated based on the requirements, then leave the record as it is and follow-up to bring the student back on track. • If the dose is invalid, but will not need to be repeated, use the S/O column on the Immunization Card to “Override” the status, enter a reason or your name to verify who overrode the system and save the record. The invalid status will become valid.
<p>4. What is the difference between Series status of Current versus Complete and what does the status of NA mean?</p>	<ul style="list-style-type: none"> • When you see a status of Current, it indicates that the student is as current as they can be for now and will be due another dose. • When you see a status of Complete there are no other doses are due. • When you see a status of NA it means that the dose given is not applicable to any rules. <p>An example would be a rule that only three doses of polio are required and three valid doses were entered along with an additional fourth dose (for whatever reason). An NA might appear because the extra dose was not applicable to meet the compliance rules for the series for that state</p>

What is next?

We are rolling up our sleeves and working to customize all state schedules.

We encourage users to visit our website at www.Healthmaster.com to periodically check the version of the immunization file for their state. The version number you have installed for immunizations is displayed on the immunization card, so your locale may show as “Massachusetts v1.2”. If the website displays a higher version number than an update is needed

If you are having a problem with immunizations that are not explained above, please contact us via our website email or by calling our Support Department as 1-800-732-7317.