

Adding Vaccinia (Smallpox) to MediEase 3.30+

Currently the Smallpox vaccination event is active in MediEase for historical purposes only and is not an active immunization. Changes in the MediEase Immunization Maintenance Module (IMM) can be made so that MediEase can calculate and track Vaccinia (Smallpox) compliance at two different levels. First is the simple level where one event is due with a booster due every ten years. Second is comprehensive including adding a new vaccination event type requiring visual evaluation of the vaccination. Following are instructions and the estimated time to complete each.

The CDC has updated recommendations concerning Vaccinia (Smallpox) vaccine. These are an update to the previous Advisory Committee on Immunization Practices (ACIP) recommendations (MMWR 1991; 40; No. RR-14: 1--10). The update includes current information regarding the nonemergency use of vaccinia vaccine among laboratory and health-care workers occupationally exposed to vaccinia virus, recombinant vaccinia viruses, and other Orthopoxviruses that can infect humans. To read more official information before deciding which type of tracking is appropriate for you go to <http://www.cdc.gov/mmwr/preview/mmwrhtml/rr5010a1.htm>

Simple Compliance Tracking (15 minutes or less)

- Add immunization: Vaccinia (Smallpox) with booster due every 10 years
- Add new events: Vaccinia Exemption (Exemption), Vaccinia Waiver (Waiver), Vaccinia Medical Exemption (Exemption), Vaccinia Titer (Titer), Eczema History (Medical Condition)

Comprehensive Compliance Tracking (30-45 minutes to add new events)

- Add new Result: Major Reaction
- Add new event type: Vaccination Inspected – Major Reaction, Equivocal, Inconclusive
- Add new events: Vaccinia Exemption (Exemption), Vaccinia Waiver (Waiver), Vaccinia Medical Exemption (Exemption), Vaccinia Titer (Titer), Eczema History (Medical Condition)
- Rename Immunization Event: Rename "Smallpox Vaccine" to "Vaccinia (Smallpox Vaccine)"
- Change event type: Change event type from "Vaccination" to "Vaccination Inspected"
- Add immunization: Vaccinia (Smallpox) with rules temp compliant for 8 days from initial vaccination to visual reading, booster due every 10 years

Simple Compliance Tracking

1. If MediEase Immunization is open, close the program.
2. Open the IMM program using an administrator level User ID and Password.

Add New Events

3. Choose the **Events** tab.
4. Click the **Add** button. For **Code** type VACEXMP; for **Name** type Vaccinia Exemption; for **Event Type** choose Exemption; click **OK** to save.
5. Click the **Add** button. For **Code** type VACWAIVE; for **Name** type Vaccinia Waiver; for **Event Type** choose Waiver; click the **Status** button and select Temp-Compliant; click **OK** so the Validation Rules box reads: "if valid, the immunization will always result in Temp-Compliant"; click **OK** to save.
6. Click the **Add** button. For **Code** type VACMEX; for **Name** type Vaccinia Medical Exemption; for **Event Type** choose Exemption; click **OK** to save.
7. Click the **Add** button. For **Code** type VACTITR; for **Name** type Vaccinia Titer; for **Event Type** choose Titer; click **OK** to save.
8. Click the **Add** button. For **Code** type ECZEMA; for **Name** type Eczema History; for **Event Type** choose Medical Exemption; click **OK** to save.

Add Vaccinia Immunization incorporating newly created events, etc.

9. Choose the **Immunizations** Tab.
10. Click the **Add** button. For **Code** type VACCINIA; for **Name** type Vaccinia Smallpox.
 - Under **Related Doses/Events** click the **Select** button. In the following order, select by double-clicking or moving using the red arrow, Smallpox Vaccine, Vaccinia Medical Exemption, Vaccinia Exemption, Vaccinia Waiver, Vaccinia Titer, Eczema History, Gelatin Anaphylactic Reaction, Immuno-suppressed diagnosis, Pregnancy and click **OK**.
 - Under **Compliance Rules** click on **General** and then click the **Edit** button. Click the **Event** button and select "Patient must have a valid Smallpox Vaccine" For **Date of dose/event** choose the second radio button to read "must be within the last 10 year(s) Status becomes Temp-Compliant 90 day(s) before another dose/event is needed." click **OK**.
 - Click the **OR** button. Click the **Event** button. Select "Patient must have a valid Vaccinia Exemption" and click **OK**.
 - Click the **OR** button. Click the **Event** button. Select "Patient must have a valid Vaccinia Medical Exemption" and click **OK**.

- Click the **OR** button. Click the **Event** button. Select "Patient must have a valid Vaccinia Titer" and click **OK**.
 - Click the **OR** button. Click the **Event** button. Select "Patient must have a valid Vaccinia Waiver" and click **OK**. Note the list must not start with or end with an *****OR***** and each condition that would make the patient compliant must be separated by and *****OR*****. Click **OK**. Make sure **Active** is checked and Click **OK** to save the new immunization.
11. Close the IMM and open MediEase. You may now add Vaccinia (Smallpox) as a group requirement or individual requirement.
 12. See Help in MediEase for directions. Click on **Help, Index** and choose the topics: Group Requirements or Individual Requirements.

Comprehensive Compliance Tracking

1. If MediEase Immunization is open, close the program.
2. Open the IMM program using an administrator level User ID and Password.

Add New Result

3. Choose the **Results** tab. Click the **Add** button. In the **Code** field type MAJ. In the **Name** field type Major Reaction. Click **OK**.

Add New Event Type

4. Choose the **Event Types** tab.
5. Click the **Add** button. In the **Code** field type VACINSP. In the **Name** field type "Vaccine Inspected". Make sure **Active** is checked. For the **Picture** choose Shot.
 - On the **General Tab** check Code Result and any other fields you want to use to track this type of event e.g. Location, Lot #, Admin'd By, Dose Amount. Under Valid Results click the **Select** button and add Major Reaction, Equivocal and Inconclusive. Click **OK**.
 - Choose the **Validation Rules** Tab. Click on the **Birth/Today** button and select: "Event will be ignored if Date is not at least 0 day(s) after date of birth" Click **OK**. Choose the **Birth/Today** button again and select: "Event will not be saved if Date is not at least 0 day(s) before today". Click **OK**.
 - Click **OK** again to save the new event type.

Add New Events

6. Choose the **Events** tab.
7. Click the **Add** button. For **Code** type VACEXMP; for **Name** type Vaccinia Exemption; for **Event Type** choose Exemption; click **OK** to save.
8. Click the **Add** button. For **Code** type VACWAIVE; for **Name** type Vaccinia Waiver; for **Event Type** choose Waiver; click the **Status** button and select Temp-Compliant; click **OK** so the Validation Rules box reads: "if valid, the immunization will always result in Temp-Compliant"; click **OK** to save.
9. Click the **Add** button. For **Code** type VACMEX; for **Name** type Vaccinia Medical Exemption; for **Event Type** choose Exemption; click **OK** to save.
10. Click the **Add** button. For **Code** type VACTITR; for **Name** type Vaccinia Titer; for **Event Type** choose Titer; click **OK** to save.
11. Click the **Add** button. For **Code** type ECZEMA; for **Name** type Eczema History; for **Event Type** choose Medical Exemption; click **OK** to save.

Change Event Type

12. Choose the **Events** tab.
13. In the **Name** column find Smallpox Vaccine. Highlight and double-click to edit or click the **Edit** button. For **Name** re-type "Vaccinia (Smallpox Vaccine)". For **Event Type** choose Vaccination Inspected.
 - Add the following **Validation Rules**: Click the **Range/Event** button and select "Event will be contraindicated from 0 day(s) after Date of Pregnancy through 0 day(s) after Add'l Date of Pregnancy", click **OK**.
 - Click the **Inter-Event** button and select "Event will be contraindicated if Date is not more than 0 day(s) before Date of Immuno-suppressed diagnosis", click **OK**.
 - Click the **Inter-Event** button and select "Event will be contraindicated if Date is not more than 0 day(s) before Date of Gelatin Anaphylactic Reaction", click **OK**.
 - Click the **Inter-Event** button and select "Event will be contraindicated if Date is not more than 0 day(s) before Date of Eczema History", click **OK**.
 - Click **OK** to close.

Add Vaccinia Immunization incorporating newly created and modified events, etc.

14. Choose the **Immunizations** Tab.
15. Click the **Add** button. For **Code** type VACCINIA; for **Name** type Vaccinia (Smallpox). Make sure **Active** is checked.
 - Under **Related Doses/Events** click the **Select** button. In the following order, select by double-clicking or moving using the red

arrow, Vaccinia (Smallpox Vaccine), Vaccinia Medical Exemption, Vaccinia Exemption, Vaccinia Waiver, Vaccinia Titer, Eczema History, Gelatin Anaphylactic Reaction, Immuno-suppressed diagnosis, Pregnancy and click **OK**.

- Under **Compliance Rules** click on **General** and then click the **Edit** button. Click the **Result** button and select "Patient's most recent valid Vaccinia (Smallpox Vaccine) must have a Major Reaction result." For **Date of dose/event** choose the second radio button to read "must be within the last 10 year(s) Status becomes Temp-Compliant 90 day(s) before another dose/event is needed." click **OK**.
 - Click the **OR** button. Click the **Result** button and select "Patient's most recent valid Vaccinia (Smallpox Vaccine) must have a [leave blank] result." For **Date of dose/event** choose the second radio button to read "must be within the last 8 day(s) Status becomes Temp-Compliant 8 day(s) before another dose/event is needed." click **OK**.
 - Click the **OR** button. Click the **Event** button. Select "Patient must have a valid Vaccinia Exemption" and click **OK**.
 - Click the **OR** button. Click the **Event** button. Select "Patient must have a valid Vaccinia Medical Exemption" and click **OK**.
 - Click the **OR** button. Click the **Event** button. Select "Patient must have a valid Vaccinia Titer" and click **OK**.
 - Click the **OR** button. Click the **Event** button. Select "Patient must have a valid Vaccinia Waiver" and click **OK**. Note the list must not start with or end with an *****OR***** and each condition that would make the patient compliant must be separated by and *****OR*****. Click **OK**.
 - Click **OK** to save the new immunization.
16. Close the IMM and open MediEase. You may now add Vaccinia (Smallpox) as a group requirement or individual requirement.
17. See Help in MediEase for directions. Click on **Help, Index** and choose the topics: Group Requirements or Individual Requirements.