ImmuCast

Release Notes

Support Services

For general support on this product, contact your system administrator or help desk. For up-to-date documentation, visit the STC Documentation Portal at https://documentation.stchome.com/.

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Introduction

This release contains schedule changes that may affect the group of patients you select to be reforecasted. Detailed descriptions and test cases follow below in the ticket descriptions.

Please note that testing scenarios do not have a grace period applied.

Also note that Forecast, Forecaster, and ImmuCast are used interchangeably throughout this document.

Apply the Release

Apply the release by executing either the included `forecast.bat` or `forecast.sh` file. Prior forecast releases through version 5.18.7.2 should have already been applied. Log files, which are created in the same folder from where the release is executed, can be reviewed for errors. To determine the current version of ImmuCast, execute this statement from SQLPlus:

```
SQL> select max(version) from h33_forecast_version where insert_stamp =
(select max(insert_stamp) from h33_forecast_version);
```

If the version number returned is not 5.18.7.2, download and apply the previous releases prior to applying this. If the release prior to and including 5.18.1 releases were not applied, edit the `forecast.bat` file (or `forecast.sh` if applying the batch with the shell script) and uncomment any lines with a later version number than the version number returned by your query so that they can be applied to the database. Log files are created in the folder from where the release is executed and can be reviewed for errors.

For example, if the release for 5.18.1 was not applied, uncomment that line in the file to include it when the release is executed:

```
REM sqlplus H33ASIIS/ASIIS@SIIS @forecast_patch5_18_1.sql
```

For ImmuCast (Stand-Alone Forecaster)

After applying the release, restart Tomcat to enable and cache any new vaccine codes into memory.

For IWeb Only

The database should be reforecast when there have been multiple changes to forecasting. Please be aware that this can affect a large number of patients and is best accomplished over a weekend.

IWeb versions prior to 5.17.5.2: Patients that are marked for reforecasting may interfere with the immediate deduplication of HL7 messages, because patients belonging to a particular organization will also be picked up by that organization's immediate deduplication session. Reforecasting patients in IWeb version 5.17.5.2 or later will not affect the deduplication of HL7 messages.

If IWeb is hosted by STC, please contact the Help Desk to ask that the current `v5.18.8_PreIWeb5.17.5.2_NeedsForecast.sql` script included in this release be executed to mark patients for reforecasting. This will update the patients affected by this release. Non-STC hosted clients may perform these steps to mark patients for reforecasting.

After applying the database release, log in to SQLPlus as the H33ASIIS user. Execute the v5.18.8_PreIWeb5.17.5.2_NeedsForecast.sql script included with this release to flag the patients affected by this release for reforecasting.

If you desire to reforecast all patients, please execute the H33_MARK_FORECAST procedure (`SQL> exec h33_mark_forecast`) to flag patient records to be reforecast. The procedure may also be run for a specific birth date range. For IWeb 5.17.5.2 or later, forecasting is run during the regular nightly deduplication processes.

Patient Groups Affected by this Release (v5.18.8)

If your database will be reforecast for this release, the following are patient ranges that we believe to be most affected by the changes in this release. You may wish to limit your reforecast to these ranges to limit the scope of your reforecast.

Tdap – patients with current age >= 7 years and with dose 4 DTaP administered up to 4 days before 4 years of age or patients with no Td/Tdap forecast.

Tdap – patients with current age >= 7 years and with dose 1 administered at < 12 months of age and doses 4 and 5 both prior to 4 years of age.

New Features in v5.18.8

Correction to the H33_ASIIS_VACC_CODE table:

- ASIIS_VACC_CODE 42 in the H33_ASIIS_VACC_CODE table was incorrectly set to BEST_CDC_CODE = 43 rather than to BEST_CDC_CODE = 44. This error affected VOMS rather than Forecasting. The issue is resolved in this release.

Bug Fixes Summary for ImmuCast v5.18.8

Key	Summary
CONSORT-4813	**DTaP/Tdap/Td** – For children >= 7 years of age, the grace period was not considered when evaluating DTaP dose 4 at up to 4 days prior to 48 months of age to determine if the Tdap forecast should be at 7 or 11 years of age.
CONSORT-4814	**DTaP/Tdap/Td –** Additional dose of DTaP following primary series completion prior to age 7 was not marked as invalid. This resulted in Tdap at age 11 not being forecast.
CONSORT-4815	**DTaP/Tdap/Td** – Tdap dose 1 is returned as Family Code 1 in regular ImmuCast. Impacts ONLY REGULAR IMMUCAST CLIENTS: PCC, Utah, Oklahoma, and Texas (when the system was set to separate Tdap as family code 24). The forecast is properly returned as Tdap at 7 years for IWeb and MT Clients.
CONSORT-4812	**Correction to two-dose HPV schedule test:** Recommended and past due dates have been revised from the original 5.7.18.1 release notes and can be found in red text on page 4.

Bug Fixes Details for v5.18.8

The following lists the detailed information about each of the tickets addressed in v5.18.8

Ticket #	Affects Client	Description
FCAST-485 HDSAF-132 CONSORT-4812	All	**Correction to Test Scenario: Please note that dates in red have been revised from the original 5.7.18.1 release notes.** HPV – The two-dose HPV schedule for patients beginning the series at < 15 years of age was not showing as complete with dose 2 administered at the appropriate interval in the version 5.18.5 release.

Scenario	DOB	Gender	Antigen	Vacc Date	Val ID	Rec Date	Min Date	Past Due	Comments
HPV series started at >= 15 years of age	01/01/1999	M	HPV quadrivalent (CVX 62)	03/01/2015	Y	03/29/2015	03/29/2015	04/28/2015	Patient is on 3-dose schedule
			HPV quadrivalent (CVX 62)	05/01/2015	Y	09/01/2015	08/01/2015	10/01/2015	
			HPV quadrivalent (CVX 62)	09/01/2015	Y				Complete

Ticket #	Affects Client	Description
FCAST-504 HDTN-1052 CONSORT-4813	All	**DTaP/Tdap/Td –** For children >= 7 years of age, grace period was not considered when evaluating DTaP Dose 4 at up to 4 days prior to 48 months of age to determine if Tdap forecast should be at 7 or 11 years of age. Note that this test scenario requires that the grace period for DTaP/Td/Tdap be set to four days in the application settings.

Scenario	DOB	Gender	Antigen	Vacc Date	Valid	Rec Date	Min Date	Past Due	Comments

Pt current age >= 7 years. DTaP #4 administered at up to 48 months-4 days of age.	01/01/2012	F	DTaP (CVX 107)	03/01/2012	Y				
			DTaP (CVX 107)	05/01/2012	Y				
			DTaP (CVX 107)	07/01/2012	Y				
			DTaP (CVX 107)	12/31/2015	Y	01/01/2023	01/01/2023	01/01/2025	DTaP administered 48 months-1 day of age. TdaP forecast at 11 years of age.
Pt current age >= 7 years. DTaP #4 administered at up to 48 months-4 days of age.	01/01/2011	F	DTaP (CVX 107)	03/01/2011	Y				
			DTaP (CVX 107)	05/01/2011	Y				
			DTaP (CVX 107)	07/01/2011	Y				
			DTaP (CVX 107)	12/31/2014	Y	01/01/2022	01/01/2022	01/01/2024	DTaP administered 48 months-1 day of age. TdaP forecast at 11 years of age.

FCAST-505 HDLA-1814 CONSORT-4814	All	**DTaP/Tdap/Td –** Additional dose of DTaP following primary series completion prior to age 7 was not marked as invalid. This resulted in Tdap at age 11 not being forecast.

Scenario	DOB	Gender	Antigen	Vacc Date	Valid	Rec Date	Min Date	Past Due	Comments
Pt current age >= 7 years. DTaP #5 administered at>= 48 months of age.	06/07/2007	F	DTaP-HepB-IPV (CVX 110)	08/20/2007	Y				
			DTaP (CVX 107)	11/06/2007	Y				
			DTaP-HepB-IPV (CVX 110)	01/11/2008	Y				
			DTaP (CVX 107)	01/30/2009	Y				
			DTaP (CVX 107)	01/12/2012	Y	06/07/2018	06/07/2018	06/07/2020	Tdap forecast at 11 yrs of age.
			DTaP-IPV (CVX 130)	01/13/2012	N	06/07/2018	06/07/2018	06/07/2020	Invalid for DTaP. Tdap forecast remains at 11 yrs of age.

| FCAST-510 HDSAF-148 CONSORT-4815 | ImmuCast | **DTaP/Tdap/Td –** Tdap Dose 1 is returned as Family Code 1 in regular ImmuCast (Clients: PCC, Utah, Oklahoma, Texas). In the reported ticket where patient's current age is >= 7 years of age and both DTaP 4 and DTaP 5 (invalid) are < 4 years of age and DTaP 1 was administered at < 12 months of age, the forecast was repeating dose 5 with a 6 month interval from the invalid dose rather than forecasting at 7 years of age.

For IWeb and MT clients, the forecast properly returned Tdap at 7 years (12/29/2007) when the system was set to separate Tdap as family code 24. |

Scenario	DOB	Gender	Antigen	Vacc Date	Valid	Rec Date	Min Date	Past Due	Comments

Evaluation date is Today with Pt current age >= 7 years. DTaP #4 and DTaP #5 (invalid) both administered at < 48 months of age. DTaP #1 at < 12 months of age.	12/29/2000	F	DTaP (CVX 107)	02/27/2001	Y				
			DTaP (CVX 107)	05/01/2001	Y				
			DTaP (CVX 107)	07/17/2001	Y				
			DTaP (CVX 107)	04/01/2002	Y				
			DTaP (CVX 107)	01/25/2004	N	12/29/2007	12/29/2007	01/28/2008	Invalid Vaccination: Minimum age for this dose not met.

This scenario may only be tested on the ImmuCast Tester Page. Evaluation date is 01/25/2004 Pt current age >= 7 years. DTaP #4 and DTaP #5 (invalid) both administered at < 48 months of age. DTaP #1 at < 12 months of age.	12/29/2000	F	DTaP (CVX 107)	02/27/2001	Y			
			DTaP (CVX 107)	05/01/2001	Y			
			DTaP (CVX 107)	07/17/2001	Y			
			DTaP (CVX 107)	04/01/2002	Y			
			DTaP (CVX 107)	01/25/2004	N	12/29/2004	12/29/2004	12/29/2007	Invalid Vaccination: Minimum age for this dose not met. Use Evaluation Date of 01/25/2004 for this test case.

Known Issues for v5.18.8

The following are known issues and will be addressed in future releases:

DTaP/Tdap Forecasting:

- Logic to support forecasting for 6 doses given before the age of 4 years has not yet been implemented. (CDSi Test Case 2013-0034)
- Logic to support inadvertent doses has not yet been implemented. (CDSi Test case 2013-0060)
- Logic to repeat Tdap at 11-12 years after administration at 7-10 years was published in April 27, 2018 MMWR has not yet been implemented. (Further changes to the recommendations are anticipated. This logic will not be implemented until recommendations are finalized and CDSi test cases have been published.)
- **HDLA-1791**: The forecaster does not display a warning when DTaP is given to 22-year-old as Dapatcel (CVX 106).

Hib Forecasting

- **HDSAF-143**: Forecaster recommends dose 3 Hib at 4 week interval after dose 2, rather than an 8 week interval.
- **HDWV-1040**: Forecaster correctly marks a Hib PRP-T dose as invalid but returns a "minimum interval not met" reason, rather than "minimum age not met".

PCV Forecasting

- **HDSAF-152, HDWA-3235**: Forecaster does not consider PCV series to be complete when dose 3 is administered at >= 12 months of age with an 8 week interval from dose 2.

Meningococcal Forecasting

- Forecaster incorrectly recommends dose 3 of Trumemba for patient who has completed the 2-dose series.
- **HDWA-3087 HDAZ-852**: Forecaster does not recommend 11-12 year old Meningococcal booster dose following doses administered at 6 years and 10 years of age.

Product Documentation

Product documentation is located on the STC Documentation Portal: https://documentation.stchome.com/.

The following documents are available for this version of ImmuCast:

- ImmuCast 5.18.1 User Guide

- ImmuCast 5.18.7 Release Notes

- ImmuCast 5.18.7.1 Release Notes

- ImmuCast 5.18.7.2 Release Notes

- ImmuCast 5.18.8 Release Notes