FREE!
Web Application to Support Immunization Forecaster Testing

NIST Forecasting for Immunization Test Suite (FITS)
https://fits.nist.gov

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Easier creation, maintenance, and execution of Forecaster Test Cases

Issues and Need

- Immunization forecasters that produce accurate and consistent forecasting recommendations for patient immunizations

- Tools to create, manage, share, and execute Test Cases for testing immunization forecasters

Description of NIST Forecasting for Immunization Test Suite

- Web-application tool that integrates authoring, management, and execution of Test Cases

- Supports Test Cases based on relative dates

- Backwards compatible with CDC CDSi test case spreadsheet format

- Provides aggregated (test plan) and individual (test case) results reporting in PDF and XML

Advantages

- Easier Test Case creation and maintenance

- Stable Test Cases over time due to support for relative dates

- Lower costs associated with faster, more efficient creation and maintenance of Test Cases

- More consistent and correct immunization forecasting leading to enhanced patient-centered health care (more accurate immunization recommendations, and avoidance of errors)

The NIST FITS tool may be used by anyone wishing to test Immunization Forecasters.
Currently is used for authoring and maintaining the CDC's CDSi age-based Test Cases,
and is integrated with AIRA's Aggregate Reporting Tool (AART) for testing and assessment.

National Institute of Standards and Technology
U.S. Department of Commerce
Testing tool developed in collaboration with the CDC and AIRA

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INFORMATION TECHNOLOGY LABORATORY

NIST Forecasting for Immunization Test Suite

1 Select **Validation** from the Menu Bar.

2 Select and view a current **Test Plan** and **Test Case**.

3 Load the **Test Case** for validation by the tool.

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Configuration

Software

Test (TCH) @ http://chforecasttester.org/fv/forecast

Queue 1

Test Cases

TEST PLAN

SLT CDC Test Plan

- TP SLT CDC Test Plan
  - GP DTaP (170)
    - TC #2013-0001- Newborn Testing
    - TC #2013-0002- DTaP #2 at age 10 weeks-5 days
    - TC #2013-0003- DTaP #2 at 10 wks-4 days
    - TC #2013-0004- DTaP # 2 at age 10 weeks
    - TC #2013-0005- DTaP # 2 at age 4 months
    - TC #2013-0007- # 2 (Tdap) to child age 7. DTaP # 1 given before age 12 month
    - TC #2013-0008- # 2 (Tdap) to child age 7. DTaP # 1 at ≥ 12 months. Forecast d
    - TC #2013-0010- # 1 (Td) to # 2 (Tdap) interval 28-4 days in child age > 7 years
    - TC #2013-0011- #3 at age 14 weeks-5 days
    - TC #2013-0012- Age 6. No vaccinations. Forecast DTaP.
    - TC #2013-0013- #3 at age 14 weeks-4 days
    - TC #2013-0014- #3 at age 14 weeks
    - TC #2013-0015- #3 at age 6 months
    - TC #2013-0016- Doses # 2 and #3 at ≥ age 7 years; # 1 at age < 12 mo. Forec
    - TC #2013-0017- Doses # 2 and # 3 at ≥7 years old; dose # 1 at ≥ 12 months ol
    - TC #2013-0019- 1 Tdap, 2 Td with appropriate intervals to child ≥ age 7 = UTD
    - TC #2013-0020- 1 Tdap, 2 Td to child > 7 years old with 6 mo-5 day interval bet

Test Cases List

Test Case Name

#2013-0005 - DTaP # 2 at age 4 months

Test View

🔄 REFERUN LAST EXECUTION

Actions

✖

#2 (Tdap) to child age 7. DTaP # 1 given before age 12 months. Forecast # 3 (Td) in 4 weeks.

TEST CASE INFORMAT... | REPORTS

Test Case Metadata

Name	# 2 (Tdap) to child age 7 . DTaP # 1 given before age 12 months. Forecast # 3 (Td) in 4 weeks.
ID	2013-0007
Group	DTaP
Description	# 2 (Tdap) to child age 7 . DTaP # 1 given before age 12 months. Forecast # 3 (Td) in 4 weeks.
Last Changed in Test Plan Version	1.0
Change Log	
Date Created	04/19/2017
Date Last Updated	04/19/2017
Type	Imported

Test Case Data

Assessment Date and Patient Information

Assessment Date	09/16/2010 - Thursday, September 16, 2010
Date Of Birth	09/16/2003 - Tuesday, September 16, 2003
Gender	Female

Vaccination History and Expected Evaluations