CDC FluView Weekly Report

Influenza-Associated Pediatric Mortality

Application Quick Reference Guide – April 2012

Introduction

This Quick Reference Guide is intended to help use the Influenza-Associated Pediatric Mortality web application and provide an overview of the surveillance system.

This application is part of the CDC FluView report, which provides weekly influenza surveillance information in the United States. This application was developed because good communications with clinicians, scientists, and the general public is a priority of the Influenza Division. This new application is added to the series of dynamic visualizations that allow any Internet user to access influenza information collected by CDC's monitoring systems. CDC's FluView report is available at http://www.cdc.gov/flu/weekly/.

About the Data

Influenza-Associated Pediatric Mortality Surveillance System —
Influenza-associated deaths in children (persons younger than 18 years) were made nationally notifiable in 2004. Any laboratory-confirmed influenza-associated death in a child is reported through the Influenza-Associated Pediatric Mortality Surveillance System by state and territorial epidemiologists. Demographic and clinical information are collected on each case and are transmitted to CDC.

Note: Influenza-Associated Pediatric Mortality data are preliminary and subject to change as more data becomes available.

Health and Human Services (HHS) Regions:

The map used in the Influenza-Associated Pediatric Mortality web application is a map of the U.S. Health and Human Services (HHS) Regions. The 10 HHS regions include:

HHS Regions	Jurisdiction
Region 1	Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont
Region 2	New Jersey, New York, Puerto Rico, and U.S. Virgin Islands
Region 3	Delaware, District of Columbia, Maryland, Pennsylvania, Virginia, and West Virginia
Region 4	Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee
Region 5	Illinois, Indiana, Michigan, Minnesota, Ohio, and Wisconsin
Region 6	Arkansas, Louisiana, New Mexico, Oklahoma, and Texas
Region 7	Iowa, Kansas, Missouri, and Nebraska
Region 8	Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming
Region 9	Arizona, California, Hawaii, Nevada, American Samoa, Commonwealth of the Northern Mariana Islands, Federated States of Micronesia, Guam, Marshall Islands, and Republic of Palau
Region 10	Alaska, Idaho, Oregon, and Washington

Accessing the FluVIew Web-based Application

All FluView applications are accessible by the public on the World Wide Web. To access the FluView Influenza-Associated Pediatric Mortality web application open a web browser on your computer and go the following internet link:

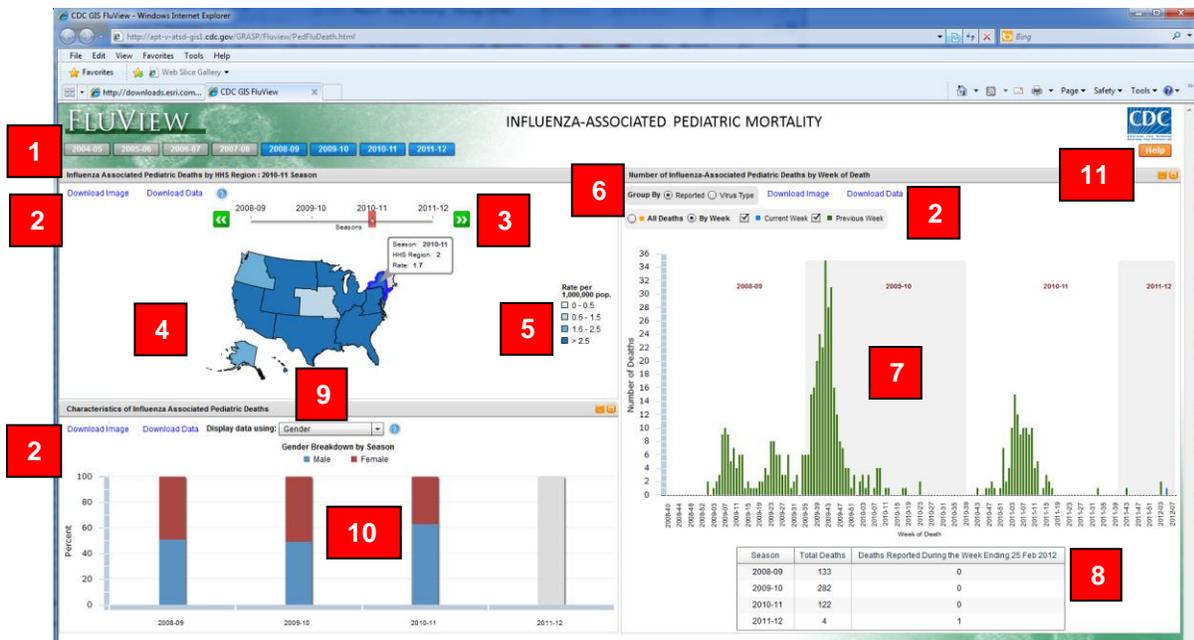http://gis.cdc.gov/grasp/fluview/PedFluDeath.html

Application requirements:

- Internet Browser
  - Windows Internet Explorer 7 and later
  - Google Chrome
  - Mozilla Firefox
- Adobe Flash plug-in for internet browsers. This plugin can be downloaded at http://get.adobe.com/flashplayer/ .

Once the website is loaded, a disclaimer dialog box will appear. Please review the disclaimer for important reference information. Click "Ok" to continue the FluView web application. Clicking on Cancel will take you to the CDC FluView weekly Flu report home page - http://www.cdc.gov/flu/weekly/

Application Functions and Tool Overview

Below is an image of the default view of the Influenza-Associated Pediatric Mortality web application. This interactive tool allows users to display and query information about Influenza-Associated Pediatric Mortality for current and historical flu seasons. The descriptions for each tool are listed below the application image.

1. **Influenza Season Selection Tool –**Allows the user to display multiple seasons depicted by a series of push buttons. To enable the data for a season, select a series of push buttons which will transform from grey to blue

as they become active. The user will have to select at least one season and will not be able to select more than four seasons during a given session.

2. **Download Image and Download Data Hyperlink –** To create a static image of the data displayed in your current view, click the "Download Image" hyperlink. The file download dialog box will appear providing the option of viewing the image, saving a copy to a local drive or discarding the image. To create a copy of the data in your current view or to modify your selection, click the "Download Data" hyperlink. The Download Data dialog box will appear provide two options: clicking the first button, "Data as displayed," allows you to download the data that is shown in the graph while selecting the second button, "Custom Download" enables you to customize the selection by using the "Group By" function. With the options selected click the Download Data button and a file download dialog box will appear. You will be given the option to open or save the comma separated value (*.csv) file.

3. **Influenza Season Slider Bar** – Use the cursor to move the slider button across the selected seasonal time frame. The green and white arrows on either side of the slider bar also can be used to move the slider from one season to another.

4. **Map** – **HHS Regions –** The map component shows death rates per 1,000,000 population by HHS Region and influenza season with denominators based on 2010 U.S. census numbers for persons aged less than 18 years. Hovering over the map will reveal a pop-up providing information on the season, HHS region, and the death rates.

5. **Map Legend –** The map legend displays the death rates per million with a classification gradient of colors.

6. **Weekly Selection Tool –**
   i. **Group By "Reported" or "Virus Type":** Only one of the following can be selected at any given time.
      1. **Reported:** When the "Reported" radio button is selected the user has the option to view the data by "All Deaths" (shows all deaths that have been reported through the Influenza-Associated Pediatric Mortality Surveillance System) or "By Week" (this selection distinguishes between deaths that were reported during the current reporting week and those that were reported previously). Additionally the user may choose check or uncheck boxes next to the following headings:
         a. **Current Week:** Shows only deaths that were reported during the current reporting week regardless of when they occurred.
         b. **Previous Week:** Shows all deaths that were reported during a week prior to the current reporting week regardless of when they occurred.

2. **Virus Type:** The "Virus Type" selection groups pediatric deaths by virus type. When the "Virus Type" radio button is selected the user has the option to view the data by "All Deaths," "Current Week," or "Previous Week" with an additional selection of radio buttons. Additionally the user may choose to check or uncheck boxes next to the following headings:
   a. **Influenza A:** Includes deaths positive for Influenza A (H1N1), Influenza A (H3N2), 2009 Influenza A (H1N1), or Influenza A viruses that were unsubtyped regardless of the test used.
   b. **Influenza B:** Includes all deaths positive for Influenza B viruses regardless of the test used.
   c. **Influenza A/B Not Distinguished:** Includes all deaths positive for influenza on a rapid test that was unable to distinguish between influenza A and influenza B.
   d. **Influenza A and B:** Includes all deaths confirmed to have been infected with both an influenza A and an influenza B virus.

7. **Pediatric Influenza Death Weekly Chart –** This chart shows deaths by week of death. The data is displayed based on the selection on the selection tool (item number 6).

8. **Pediatric Influenza Death Weekly Table –** This table represents the number of pediatric influenza-associated deaths by season. The table is divided into columns that depend on the selections on the selection tool (item number 6).

9. **Characteristic of Influenza-Associated Pediatric Deaths Data Display –** A single click on the drop down menu reveals the list of available characteristics: Gender, Age Group, High Risk Condition, Bacterial Co-Infection, Days Onset to Death, and Location of Death. When selecting High Risk Conditions or Bacterial Co-Infection, an additional option of viewing a breakdown (of medical condition or of bacteria, respectively) will appear, the user can view this breakdown checking the box.

10. **Characteristic Data Chart –** For most selections this chart represents the percent of pediatric deaths with a specific characteristic by season. Hovering over the graph will reveal a pop-up dialog providing information on the category, proportion, and count of deaths. When selecting "Days Onset to Death" the chart will show the number of deaths occurring within a specified number of days after onset. Upon hovering over the chart information on the category, season, and number of deaths will appear.

11. **Help –** The Help Menu provides a detailed overview and describes the full functionality of the FluView Web application.