

Influenza Surveillance Activities - ILINet

ILINet Overview

The U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet) is an online reporting system maintained by the CDC that is designed to collect information on influenza-like illness (ILI). For the purposes of ILINet, ILI is defined as fever of at least 100°F plus cough and/or sore throat without a KNOWN cause other than influenza. Volunteers report six numbers each week: the total number of patients seen with ILI by five age groups and the total number of patients seen for any reason.

Participation in ILINet is open to the following healthcare providers and settings: family practice, pediatricians, internal medicine, student health, infectious disease, hospital emergency departments, community clinics, urgent care, and OB/GYNs that screen for ILI as part of a patient visit.

Participants have the following options when participating in ILINet:

1. Reporting during the official influenza season only (i.e., October through May) or reporting year-round which is preferred.
2. Reporting the “Total Patients seen by age group” which is explained in the section titled “**New for the 2016-2017 Influenza Season!**” (see section below).
3. Sending a sample of patient specimens to the state laboratory for influenza surveillance laboratory testing. This is not required to participate in ILINet. In addition, influenza surveillance laboratory testing is free of charge at the state laboratory.

Providers report data weekly by noon each Tuesday through the CDC’s ILINet website or by fax. Upon approval from the DSHS ILINet Coordinator, data for multiple sites may be emailed as a spreadsheet to flutexas@dshs.state.tx.us. An example of the CDC online reporting form is included below.

CDC U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet)

Weekly Data Entry | Download ILINet Data | Other Links

Weekly Data Entry With The Total Number Of Patients Seen By Age Group

Entering ProviderID and Week Ending Date will auto retrieve existing record if it exists, otherwise the report will be empty.

Provider ID Code: Week Ending Date:

| | Number of Patients With ILI | Number of Patients Seen for Any Reason |
|-------------------------------------|-----------------------------|--|
| Age 0-4: | <input type="text"/> | <input type="text"/> |
| Age 5-24: | <input type="text"/> | <input type="text"/> |
| Age 25-49: | <input type="text"/> | <input type="text"/> |
| Age 50-64: | <input type="text"/> | <input type="text"/> |
| Age Over 64: | <input type="text"/> | <input type="text"/> |
| Unknown: | <input type="text"/> | <input type="text"/> |
| Total Patients Seen for ANY REASON: | <input type="text"/> | |

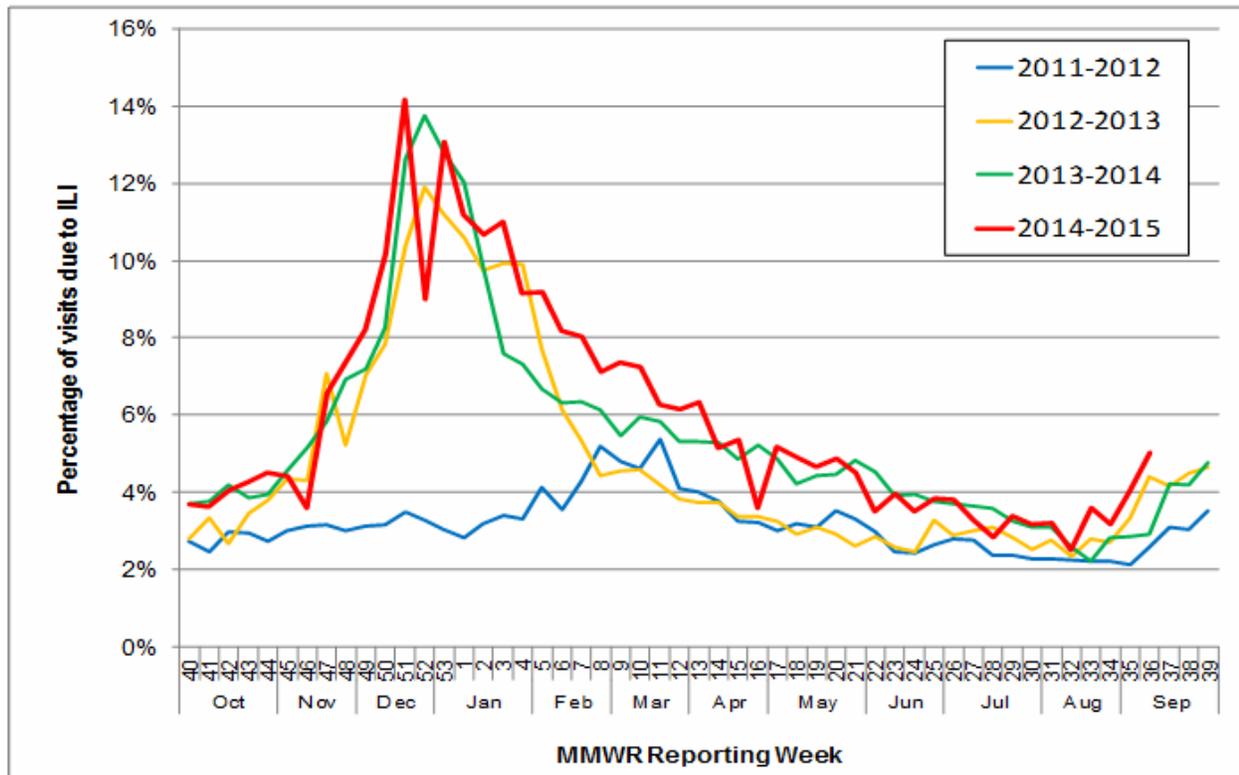
Is This a Revision of Data Reported at An Earlier Date? (checked=yes, uncheck=no)

Data entered into ILINet are available for download to local, regional and state public health staff in Texas by requesting access through flutexas@dshs.state.tx.us. The default download file is a Microsoft Excel file. An example of the downloaded data is included below.

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O |
|----|--------------|------------|-----------------|-----------|-------------|-------------|-------------------------------|---------|----------|-----------|-----------|------------------|---------------------|-----------|-------------|
| 1 | Phys ID Code | County | Practice Type | Date Code | Date Called | Time Called | Source | Age 0-4 | Age 5-24 | Age 25-49 | Age 50-64 | Age 65 and older | Total Patients Seen | Total ILI | ILI Percent |
| 2 | 48033 | Hutchinson | Family Practice | 201032 | 08/17/2010 | 10:13:42 AM | Internet Physician - 08/17/10 | 0 | 0 | 0 | 0 | 0 | 105 | 0 | 0 |
| 3 | 48165 | Harris | Family Practice | 201032 | 08/20/2010 | 11:42:49 AM | FAX - 08/20/10 | 9 | 7 | 6 | 0 | 0 | 174 | 22 | 12.64 |
| 4 | 48005 | Gregg | Family Practice | 201032 | 08/24/2010 | 1:59:12 PM | Internet Physician - 08/24/10 | 0 | 0 | 0 | 0 | 0 | 138 | 0 | 0 |
| 5 | 48129 | Denton | Health Student | 201032 | 08/16/2010 | 11:34:21 AM | Internet Physician - 08/16/10 | 0 | 0 | 0 | 0 | 0 | 77 | 0 | 0 |
| 6 | 48077 | El Paso | Pediatrician | 201032 | 08/23/2010 | 11:03:19 AM | Internet Physician - 08/23/10 | 0 | 0 | 0 | 0 | 0 | 1165 | 0 | 0 |
| 7 | 48246 | El Paso | Health Student | 201032 | 08/20/2010 | 7:27:44 PM | Internet Physician - 08/20/10 | 0 | 1 | 0 | 0 | 0 | 159 | 1 | 0.63 |
| 8 | 48074 | Collin | Family Practice | 201032 | 08/13/2010 | 4:25:09 PM | Internet Physician - 08/13/10 | 0 | 0 | 0 | 0 | 0 | 25 | 0 | 0 |
| 9 | 48126 | Brazoria | Family Practice | 201032 | 08/14/2010 | 1:39:57 PM | Internet Physician - 08/14/10 | 0 | 0 | 0 | 0 | 0 | 90 | 0 | 0 |
| 10 | 48295 | San Saba | Family Practice | 201032 | 08/17/2010 | 4:58:08 PM | Internet Physician - 08/17/10 | 0 | 0 | 0 | 0 | 0 | 147 | 0 | 0 |

Data from ILINet are used to demonstrate where and when ILI activity is occurring. A published study conducted by the University of Texas on behalf of DSHS in 2010 demonstrated that Texas ILINet data correlate with hospitalizations and deaths from influenza and pneumonia.

The data from ILINet are included in the Texas Weekly Flu Report, incorporated in the determination of Texas’s weekly influenza activity code report to CDC and used to monitor changes in ILI activity over time. An example ILINet data graph comparing multiple influenza seasons is shown below.



DSHS EAIDB has an ILINet Coordinator who recruits and enrolls providers, tracks reporting progress and sends reporting reminders to participants. The ILINet Coordinator also works with providers to correct data entry errors. Local and regional health departments in Texas assist the ILINet Coordinator with recruitment.

The CDC goal for participation in ILINet is 1 provider for every 250,000 population; however, because not all enrolled providers report to the system every week, it may be beneficial to recruit more than the minimum required. DSHS recommends that each county with a population of 100,000 or more should have at least 1 regularly reporting ILINet provider. ILINet providers can be recruited from any county in Texas regardless of population.

The DSHS ILINet Coordinator has created a plan for systematic ILINet recruiting in each DSHS Region based on recent population estimates and study data from the University of Texas. These recruitment plans are available upon request from flutexas@dshs.state.tx.us.

The following table indicates those counties that have a population over 100,000 where additional ILINet providers are needed based upon the current ILINet recruitment plan.

| HSR | County | Population* | Number of Providers Required (~1/100,000 pop.) | Number of Providers Enrolled | Number of Additional Providers Needed |
|------------|---------------|--------------------|---|-------------------------------------|--|
| 6/5S | HARRIS | 4,427,838 | 44 | 18 | 26 |
| 2/3 | DALLAS | 2,533,794 | 25 | 3 | 22 |
| 2/3 | TARRANT | 2,023,273 | 20 | 1 | 19 |
| 7 | TRAVIS | 1,065,368 | 10 | 9 | 1 |
| 2/3 | COLLIN | 1,018,701 | 10 | 1 | 9 |
| 11 | HIDALGO | 892,878 | 9 | 1 | 8 |
| 3 | DENTON | 838,564 | 8 | 2 | 6 |
| 9/10 | EL PASO | 808,395 | 8 | 2 | 6 |
| 6/5S | FORT BEND | 692,238 | 7 | 4 | 3 |
| 6/5S | MONTGOMERY | 569,715 | 6 | 2 | 4 |
| 11 | CAMERON | 449,232 | 4 | 1 | 3 |
| 6/5S | BRAZORIA | 355,458 | 4 | 2 | 2 |
| 11 | NUECES | 327,748 | 3 | 0 | 3 |
| 7 | BELL | 311,897 | 3 | 2 | 1 |
| 11 | WEBB | 282,859 | 3 | 2 | 1 |
| 1 | LUBBOCK | 274,138 | 3 | 1 | 2 |
| 4/5N | SMITH | 224,616 | 2 | 0 | 2 |
| 2/3 | JOHNSON | 191,567 | 2 | 0 | 2 |
| 2/3 | PARKER | 132,120 | 1 | 0 | 1 |
| 1 | POTTER | 131,725 | 1 | 0 | 1 |
| 2/3 | KAUFMAN | 125,986 | 1 | 0 | 1 |
| 2/3 | WICHITA | 125,920 | 1 | 0 | 1 |
| 2/3 | GRAYSON | 125,474 | 1 | 0 | 1 |
| 2/3 | ROCKWALL | 110,868 | 1 | 0 | 1 |

*Population data available from DSHS Center for Health Statistics, <http://www.dshs.texas.gov/chs/popdat/>

How to Log into the ILINet Portal

1. First obtain a User ID and Password by contacting flutexas@dshs.state.tx.us.
 - Please identify the public health organization or potential ILINet data provider that you represent and briefly explain your purpose in making this request. You will be contacted and a User ID and Password assigned to you.
2. Open your Internet Browser, once you have a User ID and Password.
3. Type the following Internet address: <https://wwwn.cdc.gov/ILINet> in the address and press enter.

4. Type in your assigned User ID in the “ID” box
5. Type in your assigned Password in the “Password” box
6. Click on the “Log In” button.
 - The “Weekly Data Entry With The Total Number Of Patients Seen By Age Group” page should appear.
 - This page is where ILI data can be entered by the healthcare provider or local health department.

How to Enter a Weekly Report:

Data providers enter their Weekly Report by completing steps 1-7 following the procedure below:

1. The Provider ID Code is preset for each data provider
2. Select the Week Ending Date from the drop down menu that appears when is selected
3. Enter the ILI counts for each age grouping
4. Optional: Enter Number of Patients Seen for any Reason by Age Groups

CDC U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet)

Weekly Data Entry | Download ILINet Data | Other Links

Weekly Data Entry With The Total Number Of Patients Seen By Age Group

Entering ProviderID and Week Ending Date will auto retrieve existing record if it exists, otherwise the report will be empty.

Provider ID Code: Week Ending Date:

| | Number of Patients With ILI | Number of Patients Seen for Any Reason: |
|------------------------------------|-----------------------------|---|
| Age 0-4: | <input type="text"/> | <input type="text"/> |
| Age 5-24: | <input type="text"/> | <input type="text"/> |
| Age 25-49: | <input type="text"/> | <input type="text"/> |
| Age 50-64: | <input type="text"/> | <input type="text"/> |
| Age Over 64: | <input type="text"/> | <input type="text"/> |
| Unknown: | <input type="text"/> | <input type="text"/> |
| Total Patients Seen for ANY REASON | | <input type="text"/> |

Is This a Revision of Data Reported at An Earlier Date? (checked=yes, uncheck=no)

5. Enter Total Patients seen for any Reason
6. Check the box next to the question “Is This a Revision of Data Reported at An Earlier Date?” if the report revises a previous report
7. Press the Submit button to enter the data show into the ILINet database or press the Reset button to clear the entries made during steps: 1-6

New for the 2016-2017 Influenza Season!

- Beginning week 40 (October 2-8, 2016), there will be the OPTION for ILINet providers to report the total number of patients seen by age.
- If you choose to provide total patient visits by ILI age group, please submit only one weekly ILINet report each week. It is not necessary to submit a report with and without total patient visits by ILI age group.
- This information will be invaluable in calculating the age-group specific impact of circulating influenza viruses on outpatient visits for ILL
- If you would like to participate, please review the following instructions:
 1. Login to the ILINet website (<https://wwwn.cdc.gov/ILINet/>) and select the link **"Would you like to report total patient visits by age group?"**
 2. Report the number of patients with ILI AND the number of patients seen for any reason by the ILI age groups (0-4 years, 5-24 years, 25- 49 years, 50-64 years, >64 years, and/or unknown) along with the total of patients seen for any reason.
 3. Please ensure that the number of patients seen for any reason by age group equals the total patients seen for any reason.
 4. Select Submit. If data displayed are incorrect, re-enter the correct report, indicate that this entry is a revision of previously reported data, and select Submit.

CDC U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet)

Weekly Data Entry | Download ILINet Data | Other Links

Weekly Data Entry With The Total Number Of Patients Seen By Age Group

Entering ProviderID and Week Ending Date will auto retrieve existing record if it exists, otherwise the report will be empty.

Provider ID Code: Week Ending Date:

| | Number of Patients With ILI | Number of Patients Seen for Any Reason |
|------------------------------------|-----------------------------|--|
| Age 0-4: | <input type="text"/> | <input type="text"/> |
| Age 5-24: | <input type="text"/> | <input type="text"/> |
| Age 25-49: | <input type="text"/> | <input type="text"/> |
| Age 50-64: | <input type="text"/> | <input type="text"/> |
| Age Over 64: | <input type="text"/> | <input type="text"/> |
| Unknown: | <input type="text"/> | <input type="text"/> |
| Total Patients Seen for ANY REASON | <input type="text"/> | |

Is This a Revision of Data Reported at An Earlier Date? (checked=yes, uncheck=no)

For Influenza Surveillance Coordinators

Using the ILINet Website to download and summarize data using Excel Pivot Tables

Note: These instructions were created using Microsoft Office Excel 2010. Other versions of Excel may vary slightly in the placement of the icons, menus and layouts, as well as in the wizard or PivotTable instructions.

What is a pivot table?

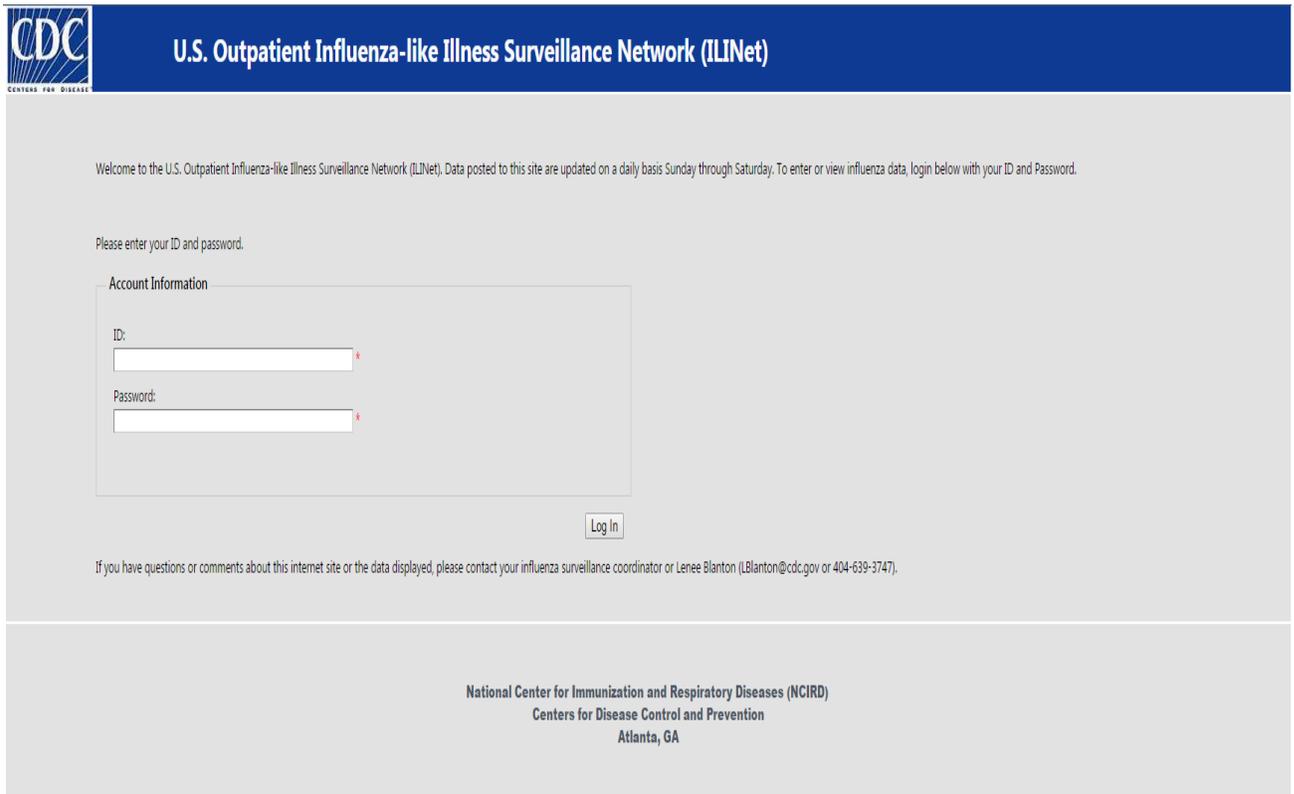
A pivot table is an easy and dynamic way to summarize and organize data. A pivot table allows the user to quickly filter, sort, group and perform mathematical calculations (e.g., count, sum, product, average, standard deviation, variance, etc.) on data. The data can be moved easily from one field to another, allowing the user to quickly change how and where the data are displayed. Also, data in a pivot table can be transformed easily into a dynamic graph called a PivotChart.

Instructions

1. Log into the ILINet system

Website: <https://wwn.cdc.gov/ILINet>

ID and password: Health departments can request the ID and password by emailing flutexas@dshs.state.tx.us



Welcome to the U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet). Data posted to this site are updated on a daily basis Sunday through Saturday. To enter or view influenza data, login below with your ID and Password.

Please enter your ID and password.

Account Information

ID:

Password:

If you have questions or comments about this internet site or the data displayed, please contact your influenza surveillance coordinator or Lenee Blanton (LBlanton@cdc.gov or 404-639-3747).

National Center for Immunization and Respiratory Diseases (NCIRD)
Centers for Disease Control and Prevention
Atlanta, GA

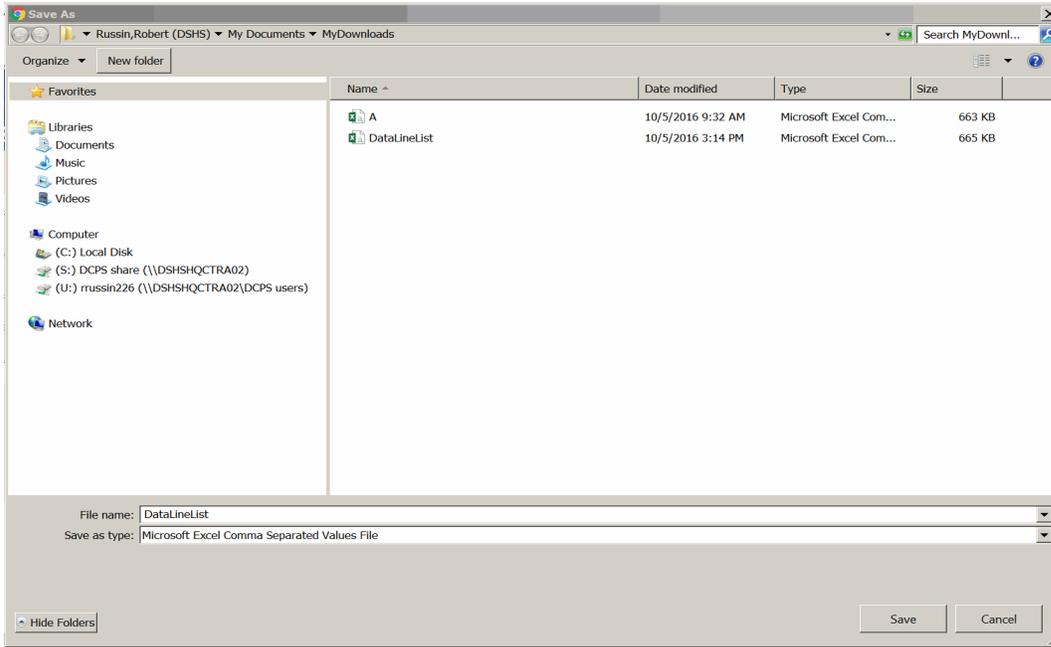
2. The Home Page appears after successfully logging in
 Select “Download ILINet Data from the Menu Bar.

3. On the following “Download ILINet Data” webpage:

- a. Set Data Options for current or previous seasons
- b. Select Download Data Line Data
 - A message will appear at the bottom left corner of the web page indicating that your request is being processed.

4. When a “File Download” window appears, click on “Save”.

- a. Navigate to where you want to save the file on your computer.
 - b. Create a file name or click on an existing file name.
 - c. Press the “Save” button.
- The default file is a Microsoft Excel file.
 - Make sure to open the file when you are finished saving it. (Note: If you choose the “Open” option instead of the “Save” option, you will encounter an error when you try to create a pivot table.)



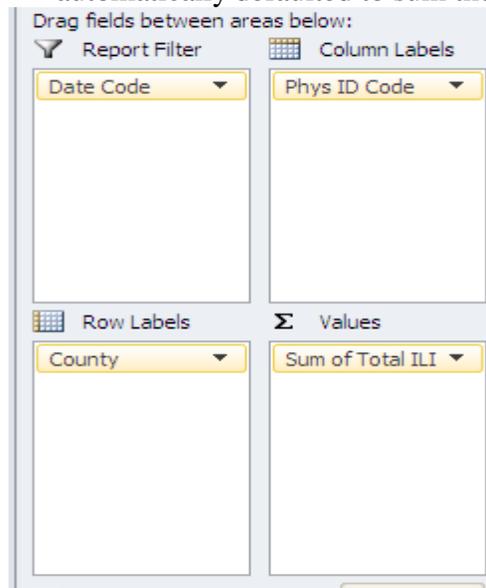
The screenshot shows an Excel spreadsheet with the following data:

| Phys ID | County | Date | Time | Source | Revised Rt | Age 0-4 | Age 5-24 | Age 25-49 | Age 50-64 | Age 65 and over | Total | Patient | Total ILI | ILI Percent |
|---------|--------|--------|------------------------|---------------|------------|---------|----------|-----------|-----------|-----------------|-------|---------|-----------|-------------|
| 48005 | Gregg | 201540 | 12/30/2015 15:44:03 PM | Internet P NO | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 0.00% | |
| 48005 | Gregg | 201541 | 12/30/2015 15:46:00 PM | Internet P NO | 0 | 1 | 2 | 0 | 0 | 0 | 89 | 3 | 3.37% | |
| 48005 | Gregg | 201543 | 12/30/2015 15:47:48 PM | Internet P NO | 0 | 2 | 1 | 0 | 0 | 0 | 98 | 3 | 3.06% | |
| 48005 | Gregg | 201544 | 12/30/2015 15:48:41 PM | Internet P NO | 0 | 1 | 2 | 0 | 0 | 0 | 110 | 3 | 2.73% | |
| 48005 | Gregg | 201545 | 12/30/2015 15:49:27 PM | Internet P NO | 0 | 2 | 2 | 0 | 0 | 0 | 92 | 4 | 4.35% | |
| 48005 | Gregg | 201610 | 3/24/2016 14:13:21 PM | Internet P NO | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00% | |
| 48010 | Dallas | 201540 | 10/28/2015 19:01:00 PM | Internet P NO | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 0.00% | |
| 48010 | Dallas | 201541 | 10/28/2015 19:01:15 PM | Internet P NO | 0 | 0 | 0 | 0 | 0 | 0 | 31 | 0 | 0.00% | |
| 48010 | Dallas | 201542 | 10/28/2015 19:01:30 PM | Internet P NO | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 0 | 0.00% | |
| 48010 | Dallas | 201543 | 11/4/2015 16:18:10 PM | Internet P NO | 0 | 0 | 0 | 0 | 0 | 0 | 32 | 0 | 0.00% | |
| 48010 | Dallas | 201544 | 11/16/2015 16:29:17 PM | Internet P NO | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 0.00% | |
| 48010 | Dallas | 201545 | 11/16/2015 16:29:34 PM | Internet P NO | 0 | 0 | 0 | 0 | 0 | 0 | 34 | 0 | 0.00% | |
| 48010 | Dallas | 201546 | 12/14/2015 11:09:27 AM | Internet P NO | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 0 | 0.00% | |
| 48010 | Dallas | 201547 | 12/14/2015 11:09:40 AM | Internet P NO | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 0.00% | |
| 48010 | Dallas | 201548 | 12/14/2015 11:09:54 AM | Internet P NO | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 0.00% | |
| 48010 | Dallas | 201550 | 12/21/2015 14:44:27 PM | Internet P NO | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 0.00% | |
| 48010 | Dallas | 201551 | 1/22/2016 11:12:11 AM | Internet P NO | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 0.00% | |
| 48010 | Dallas | 201552 | 1/22/2016 15:05:39 PM | Internet P NO | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00% | |
| 48010 | Dallas | 201601 | 1/22/2016 15:05:51 PM | Internet P NO | 0 | 0 | 0 | 0 | 0 | 0 | 32 | 0 | 0.00% | |
| 48010 | Dallas | 201602 | 1/22/2016 15:06:06 PM | Internet P NO | 0 | 0 | 0 | 0 | 0 | 0 | 33 | 0 | 0.00% | |
| 48010 | Dallas | 201603 | 4/11/2016 16:55:54 PM | Internet P NO | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 0 | 0.00% | |
| 48010 | Dallas | 201604 | 4/11/2016 16:56:26 PM | Internet P NO | 0 | 0 | 0 | 0 | 0 | 0 | 31 | 0 | 0.00% | |

5. Now you are ready to create a pivot table.

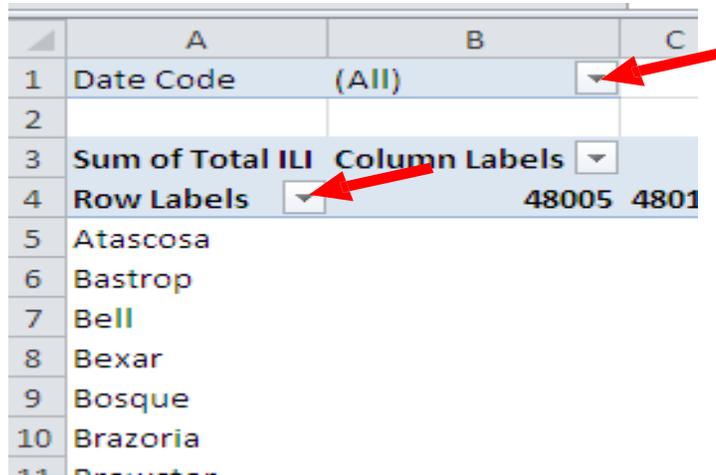
The example looks for data for week 45 in year 2009 for ILINet providers in HSR 6

- a. To create a pivot table, click anywhere in the body of the data (not in the column headers line).
- b. Then go to the ribbon, select *Insert* and then select *PivotTable*.
- c. Make sure the radio button next to “Select a table or range” is selected. Look at the blank next to “Table/Range” and make sure that the range includes all of the data and data headers for the data that you wish to pivot (in this case, it is all of the data and headers in the spreadsheet that you downloaded).
- d. For “Choose where you want the PivotTable to be placed”, select the radio button next to “New Worksheet”, if it is not already selected.
- e. Press “OK”.
- f. Now you will have the shell of a PivotTable, and you should see a PivotTable field list on some part of your screen. If you do not see the field list, right click with your mouse on the PivotTable and select “Show Field List”.
 - i. The next step is to create the layout of your PivotTable.
 1. Drag “County” into the Row Labels field that is available below the field list.
 2. Drag “Phys ID Code” into the Column Labels field.
 3. Drag “Date Code” into the Report Filter field.
 4. Finally, since we want to know which providers reported patients with ILI, drag “Total ILI” into the Values field. (Because we chose a field containing numerical data for the Values field, the pivot table automatically defaulted to sum the values in the Total ILI column.)



6. Now you should see your completed pivot table, but you still need to do a few things to answer your original question.

- a. In the dropdown menu next to “Date Code,” select “200945” which stands for MMWR week 45 of 2009.
- b. In the dropdown menu next to “Row Labels” (these are the counties), select only the counties in HSR 6/5S (look for Austin, Brazoria, Chambers, Colorado, Fort Bend, Galveston, Hardin, Harris, Jefferson, Liberty, Matagorda, Montgomery, Orange, Walker, Waller and/or Wharton counties). Click the “Show All” button in the dropdown to uncheck or check all counties. Once you have selected the proper counties, click “OK” to close the dropdown.



c. The end result should be a pivot table that answers your original question.

| | Date Code | 200945 | | | | | | | | | | | | | | |
|---|------------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------|--|
| 1 | Date Code | 200945 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | |
| 3 | Sum of Total ILI | Column Labels | | | | | | | | | | | | | | |
| 4 | Row Labels | | 48126 | 48165 | 48260 | 48271 | 48272 | 48273 | 48274 | 48276 | 48282 | 48288 | 48298 | 48304 | Grand Total | |
| 5 | Brazoria | | 1 | | | | | | | | | | | | 1 | |
| 6 | Harris | | | 48 | 19 | 3 | 41 | 6 | 0 | 1 | 62 | 15 | | | 195 | |
| 7 | Liberty | | | | | | | | | | | | 0 | | 0 | |
| 8 | Wharton | | | | | | | | | | | | | 6 | 6 | |
| 9 | Grand Total | | 1 | 48 | 19 | 3 | 41 | 6 | 0 | 1 | 62 | 15 | 0 | 6 | 202 | |

During week 45 in HSR 6/5S:

- One provider with ID code 48126 in Brazoria County reported 1 patient with ILI.
- Nine providers in Harris County reported a total of 195 patients with ILI (one reported zero patients with ILI).
- One provider in Wharton County reported 6 patients with ILI.
- Also, note that one provider in Liberty County reported zero patients with ILI.

d. If you don't like the layout, you can change it. One example is to swap the Row and Column fields of the pivot table by dragging "County" over and dropping it in the Column Labels field, and then dragging "Phys ID Code" over and dropping it in the Row Labels field. Try this and see below for the result.

| Row Labels | Brazoria | Harris | Liberty | Wharton | Grand Total |
|--------------------|----------|------------|----------|----------|-------------|
| 48126 | 1 | | | | 1 |
| 48165 | | 48 | | | 48 |
| 48260 | | 19 | | | 19 |
| 48271 | | 3 | | | 3 |
| 48272 | | 41 | | | 41 |
| 48273 | | 6 | | | 6 |
| 48274 | | 0 | | | 0 |
| 48276 | | 1 | | | 1 |
| 48282 | | 62 | | | 62 |
| 48288 | | 15 | | | 15 |
| 48298 | | | 0 | | 0 |
| 48304 | | | | 6 | 6 |
| Grand Total | 1 | 195 | 0 | 6 | 202 |

e. An additional feature of a pivot table is the ability to create line lists of specific information directly from the pivot table. For example, let us say that now we want to see a line list with data from all of the Harris County providers. To do this, simply double-click on the number "195" (the grand total for Harris County) in cell C17 of your pivot table (the one created in step 7d). A new worksheet will appear with only these selected data lines listed.

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N |
|----|--------------|---------|--------|-----------------|-----------|-------------|-------------|------------|---------|----------|-----------|-----------|------------------|---------------|
| 1 | Phys ID Code | City | County | Practice Type | Date Code | Date Called | Time Called | Source | Age 0-4 | Age 5-24 | Age 25-49 | Age 50-64 | Age 65 and older | Total Patient |
| 2 | 48165 | Houston | Harris | Family Practice | 200945 | 11/17/2009 | 1:32:23 PM | FAX - 11/1 | 10 | 20 | 18 | 0 | 0 | |
| 3 | 48260 | Houston | Harris | Family Practice | 200945 | 11/23/2009 | 11:02:44 AM | Internet P | 6 | 9 | 1 | 1 | 2 | |
| 4 | 48271 | Houston | Harris | Pediatrician | 200945 | 11/17/2009 | 11:30:47 AM | Internet P | 1 | 0 | 1 | 1 | 0 | |
| 5 | 48272 | Houston | Harris | Pediatrician | 200945 | 11/16/2009 | 12:59:18 PM | FAX - 11/1 | 19 | 22 | 0 | 0 | 0 | |
| 6 | 48273 | Houston | Harris | Pediatrician | 200945 | 11/19/2009 | 10:23:02 AM | Internet P | 2 | 4 | 0 | 0 | 0 | |
| 7 | 48274 | Houston | Harris | Pediatrician | 200945 | 1/7/2010 | 3:58:17 PM | Internet P | 0 | 0 | 0 | 0 | 0 | |
| 8 | 48276 | Houston | Harris | Pediatrician | 200945 | 12/2/2009 | 10:56:35 AM | Internet P | 1 | 0 | 0 | 0 | 0 | |
| 9 | 48282 | Humble | Harris | Pediatrician | 200945 | 11/17/2009 | 2:39:01 PM | Internet P | 24 | 38 | 0 | 0 | 0 | |
| 10 | 48288 | Katy | Harris | Family Practice | 200945 | 12/1/2009 | 5:20:51 PM | Internet P | 6 | 9 | 0 | 0 | 0 | |

Definitions for ILINet Data Fields

Phys ID Code: The unique number assigned to each provider enrolled in ILINet

County: The county where the provider's practice is located

Practice Type: Type of provider practice (options include Emergency Medicine, Family Practice, Infectious Disease, Internal Medicine, Pediatrician, Student Health, Urgent Care or Other)

Date Code: MMWR year and week that the data represent (format: YYYYWW)

Date Called: The date that the data were reported to the system

Time Called: The time that the data were reported to the system

Source: How the provider reported the data (options include Fax or Internet Physician)

Age 0-4: Number of patients aged 0-4 years that meet the definition of ILI

Age 5-24: Number of patients aged 5-24 years that meet the definition of ILI

Age 25-49: Number of patients aged 25-49 years that meet the definition of ILI

Age 50-64: Number of patients aged 50-64 years that meet the definition of ILI

Age 65 and older: Number of patients 65 years and older that meet the definition of ILI

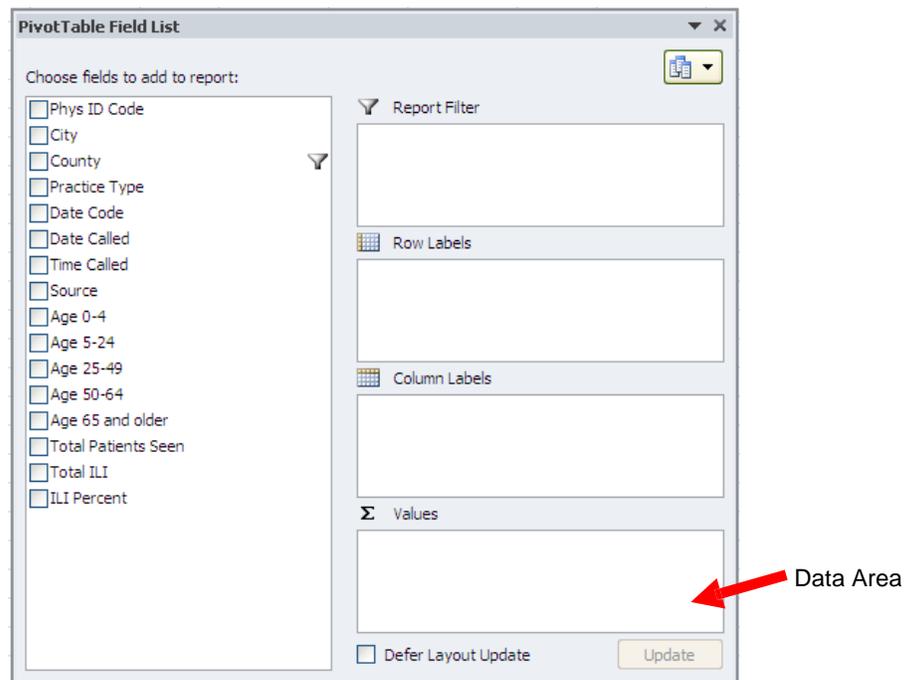
Total Patients Seen: Total number of patients seen for any reason, including those seen with ILI

Total ILI: Sum of the number of patients with ILI reported in all age groups

ILI Percent: (Total ILI / Total Patients Seen) x 100

Quick Reference and Helpful Hints for Pivot Tables

1. Anatomy of a Pivot Table



2. Caveats of Pivot Tables

- a. The column that you select to drop in the Values field (previously known as the Data Area) of a pivot table must contain an entry for **each** line of data. If any lines in this selected column are blank, the pivot table will not summarize all rows in the original data set. In the ILINet data set, all columns are populated with data in all cells, so any of these columns would be a good choice for the Values field.
- b. If your pivot table returns “unusual” results (e.g., very large numbers or very small numbers), check in the upper left corner (called the Data Field) between the Row Labels and Column Labels fields of the pivot table to determine what mathematical function (e.g., sum, count, etc.) the pivot table is using to summarize the data. (Note: If you do not have anything in the Column Labels field, the Data Field will appear in the usual place of the Column Labels field.)

| Row Labels | Brazoria | Harris | Liberty | Wharton | Grand Total |
|--------------------|----------|------------|----------|----------|-------------|
| 48126 | 1 | | | | 1 |
| 48165 | | 48 | | | 48 |
| 48260 | | 19 | | | 19 |
| 48271 | | 3 | | | 3 |
| 48272 | | 41 | | | 41 |
| 48273 | | 6 | | | 6 |
| 48274 | | 0 | | | 0 |
| 48276 | | 1 | | | 1 |
| 48282 | | 62 | | | 62 |
| 48288 | | 15 | | | 15 |
| 48298 | | | 0 | | 0 |
| 48304 | | | | 6 | 6 |
| Grand Total | 1 | 195 | 0 | 6 | 202 |

- c. If the choice is not appropriate, right click on the Data Field, choose “Value Field Settings” and change the “Summarize Values By” selection. See the example below.
 - i. For example, if you wanted to find out how many providers reported data from each of the HSR 6/5S counties, you would need a **Count** of the “Phys ID Code” field; however, the pivot table defaults to a Sum because the Phys ID Code contains numerical values (see below).

| Row Labels | Sum of Phys ID Code |
|--------------------|---------------------|
| Brazoria | 48126 |
| Harris | 434361 |
| Liberty | 48298 |
| Wharton | 48304 |
| Grand Total | 579089 |

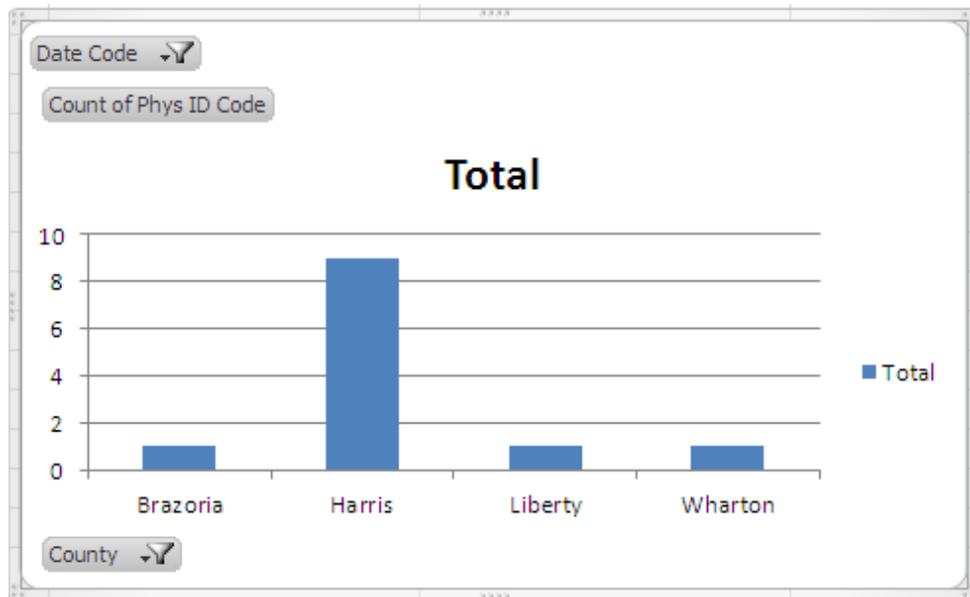
- ii. To change this, right-click with your mouse on the Data Field and choose “Value Field Settings” from the list. On the “Summarize Values By” tab, change the selection to “Count” and click “OK”.
- iii. Now you see a count of the number of HSR 6/5S providers who reported to ILINet during this particular week.

| | A | B |
|---|--------------------|-----------------------|
| 1 | Date Code | 200945 |
| 2 | | |
| 3 | Row Labels | Count of Phys ID Code |
| 4 | Brazoria | 1 |
| 5 | Harris | 9 |
| 6 | Liberty | 1 |
| 7 | Wharton | 1 |
| 8 | Grand Total | 12 |

- d. Always double check to make sure that your pivot table data seem reasonable. Before attempting any filtering in a pivot table, check that the grand total in the original spreadsheet matches the grand total in the pivot table.

3. Miscellaneous

- a. If you close the Pivot Table Field List, you can reopen it by right-clicking with your mouse inside of the pivot table and then selecting “Show Field List”.
- b. If you change the original data set after you have created the pivot table, you must refresh the pivot table if you want to incorporate the changes. To do this, right click with your mouse on the PivotTable and select “Refresh”.
- c. To create a chart directly from your pivot table, go to the *Insert* tab on the ribbon and select one of the chart types (e.g., 2D column). The PivotChart is modifiable in the same way as the PivotTable to change the layout and the specific data that are displayed.



Data Quality Checks in ILINet

It is a good idea to perform a few quality checks on ILINet data each week. In the past, some data quality issues have been detected, particularly while examining data from newly recruited participants.

ILI Percent Column

Very High Values

The ILI Percent column should be examined each week for values of 100 percent ILI. In the past, follow-up with participants reporting 100 percent ILI (i.e., the number of total patients seen for any reason equal to the number of patients seen for ILI) has always revealed reporting errors and confusion about the definitions of the different data elements. If a participant is reporting 100 percent ILI, that participant should be contacted, questioned about the entry, and retrained on proper data entry if necessary.

Very Low Values

The ILI Percent column should also be examined each week for values that are consistently and unusually low. In particular, values of ILI under 1 percent consistently reported by a participant during peak influenza season are unusual and should be questioned. In the past, participants with this data characteristic were found to be including in their denominator patient visit totals from all physicians in their clinic system, regardless of whether or not certain specialty physician types were likely to ever see patients with ILI. Only provider types that actually see patients with ILI should be included in data reported to ILINet; other specialty provider types like orthopedists, urologists and others who would be very unlikely to see patients with ILI should not be included in the data reported to ILINet.

Total Patients Seen and Total ILI Columns

The Total Patients Seen and Total ILI columns should be examined for any unusual data, including rounding of the number of patient visits. Previously, data quality issues have been discovered in the form of patient visits rounded to the nearest 10 or 100; retraining is needed for participants whose data consistently appear rounded for convenience.

US Outpatient Influenza-like Illness Surveillance Network (ILINet) Application Form



E-mail to: flutexas@dshs.state.tx.us or fax to: 512-776-7616

Provider Information

| | | | |
|-------------------------------------|-------|---|----------|
| Last Name | | Degree (MD, PA, DO) | |
| First Name | | | |
| Practice Name (Name of facility) | | Type of Practice (Pediatrics, Family Practice) | |
| Street Address | | | |
| City | Texas | | Zip Code |
| Area Code/ Telephone Number | | | |
| Fax Number | | | |
| Contact Person | | | |
| Contact Person Telephone Number | | Extension | |
| E-Mail Address | | | |

Agreement

I understand that by voluntarily reporting outpatient influenza-like illness by age group to the CDC on a weekly basis the CDC and the Texas Department of State Health Services develops a national picture of influenza virus activity, the geographic distribution of influenza viruses, and the clinical impact of the circulating viruses. I understand that **Surveillance providers receive feedback on the data submitted, summaries of regional and national influenza data, and free subscriptions to CDC's Morbidity and Mortality Weekly Report and Emerging Infectious Diseases journal.** In addition, as a surveillance provider I can submit specimens from a subset of patients for virus isolation **free of charge.**

A certificate is sent annually to regular participants submitting 50% or more of ILI data.

| | |
|-------------------------------|--|
| Name to appear on certificate | |
| Date | |

For additional information about the ILINet

www.dshs.state.tx.us/idcu/disease/influenza/surveillance/ILINet

Robert Russin or Johnathan Ledbetter
Emerging and Acute Infectious Disease Branch
Phone: (512) 776-6242 or 776-6223
Fax: (512) 776-7616
E-mail: flutexas@dshs.state.tx.us

Thank you for completing this application form and for your support of public health.