

#### Health Data Literacy Training-II

Module 1- Accessing Data



#### Acknowledgements

Funding for this training was provided by the American Indian/Alaska Native Health Disparities Grant Program through the Office of Minority Health.

(Grant # AIAMP120015)



#### The Urban Indian Health Institute

Mission: To support the health and well-being of urban Indian communities through information, scientific inquiry and technology.

- Conduct a variety of public health and research projects from surveillance to training
- Fill a gap in information
- Established in the year 2000
- Division of the Seattle Indian Health Board
- Serving urban American Indians/Alaska Natives (AI/ANs) nationwide
- One of twelve Tribal Epidemiology Centers



# Urban Indian Health Organizations (UIHO)



- Limited (clinics that provide direct primary care services for under 40 hours per week)
- Outreach and Referral (sites that do not provide direct care services onsite, but refer patients to external health care providers)

# Demystifying Data: Eliminating Al/AN Health Disparities

- Through Information, Partnership and Training, this work aims to increase awareness of health disparities and improve the health and well-being of urban AI/ANs
- Health data literacy training seeks to increase the capacity of UIHOs to use data to address health status priorities



## Training background

- Previous in-person training / materials
  - 1) The importance of health data for urban AI/ANs
  - 2) Limitations of data for urban AI/ANs and addressing them
  - 3) Commonly used epidemiologic concepts
  - 4) Effective communication and presentation of health data
  - 5) Plans for using health data in your agency
- Response to evaluation by UIHOs



## **Training Goals**

- Module 1: Accessing Data
  - Learn how to locate and export data on Al/ANs
- Module 2: Using and Presenting Data
  - Learn how to use data output for making graphs or other presentations.
  - Learn how to interpret the data for a grant or presentation.



## **Training Outline**

- Opportunities for using health data
- Common Health Data Sources
- Data Access Limitations
- How to Use Imperfect Data
- Accessing Data
- CDC Wonder Data Access Example
- STD Resources
- Sneak peak Module 2!
- Summary
- UIHI Contact Information



# Opportunities for using health data

- Establish program priorities
- Evaluate participant satisfaction of programs and activities
- Support of funding and political advocacy
- Background information for grant applications
- Creation of reports on community health status or needs
- Presentation of agency services and achievements



#### Common health data sources

- Mandatory reporting systems
- Surveys
- Other types





# Common data sources – Mandatory reporting systems

- Vital Statistics birth and death certificates
- Disease registries ex. U.S. Cancer
   Statistics (USCS) on cancer incidence
- Disease surveillance ex. Sexually
   Transmitted Disease (STD) morbidity data
- Clinic or administrative data ex. GPRA or healthcare financing claim submissions (CMS)



#### Common data sources - Surveys

- Geography: National, state, local
- Setting: School, home, clinic, telephone
- Examples of national surveys
  - Youth Risk Behavior Survey (YRBS)
  - Behavioral Risk Factor Surveillance Survey (BRFSS)
  - National Survey of Family Growth (NSFG)
  - National Health Interview Survey (NHIS)
- Satisfaction surveys (ex. employees, patients, students, participants)



#### Other common data sources

- U.S. Census
- American Community Survey
- Hospital discharge data
- Air Quality System (AQS) U.S. EPA's repository of ambient air quality data from monitors

Qualitative data: Focus groups, interviews, digital stories, etc.



#### Data access limitations

- Data not shown for group of interest (ex. County-level, Al/ANs)
- Data is grouped into "Other" category because of small sample size
- Access to data sources may be difficult (ex. proposal time, cost, etc.)





#### How to use imperfect data

Next we will summarize the following:

- Area of analysis
- Consider comparison group
- Alternative source



#### Area of analysis

- Combine geographic areas, years, age groups, genders to increase sample size
- Use available data on specific region or tribe even outside your area



## Consider comparison group

- Use group with similar characteristics (ex. Income group, education level, insurance status, metro area, etc.)
- Use data on related health outcomes
- Share data on one race as baseline; lack of improvement also has meaning
- Consider comparison to Healthy People goals or other targets

http://www.healthypeople.gov



#### Alternative source

 Search for relevant reports or journal articles online if source data is not accessible



## Accessing data - Static

Health United States, American Indian population

http://www.cdc.gov/nchs/hus/american.htm#population

 OMH Home > Policy and Data > Minority Population Profiles

http://minorityhealth.hhs.gov/omh/browse.aspx ?lvl=2&lvlid=26



#### Accessing data - Interactive

Health Data Interactive

http://www.cdc.gov/nchs/hdi.htm

 WISQARS (Web-based Injury Statistics Query and Reporting System)

http://www.cdc.gov/injury/wisqars/

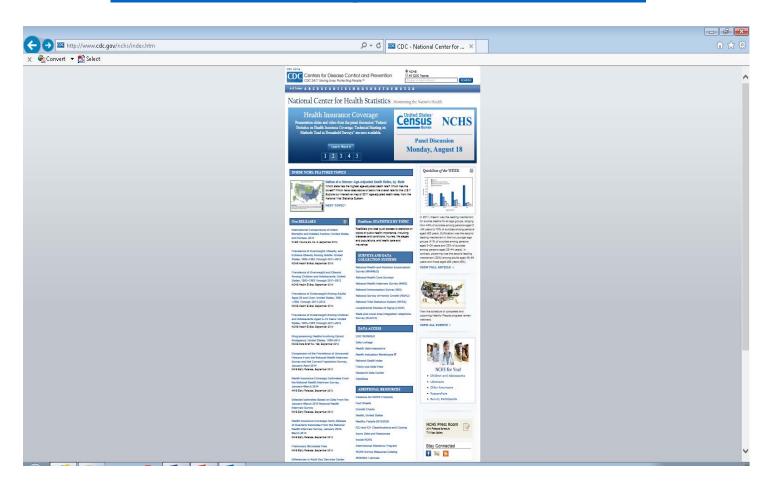
 WONDER (Wide-ranging Online Data for Epidemiologic Research)

http://wonder.cdc.gov/



## National Center for Health Statistics (NCHS)

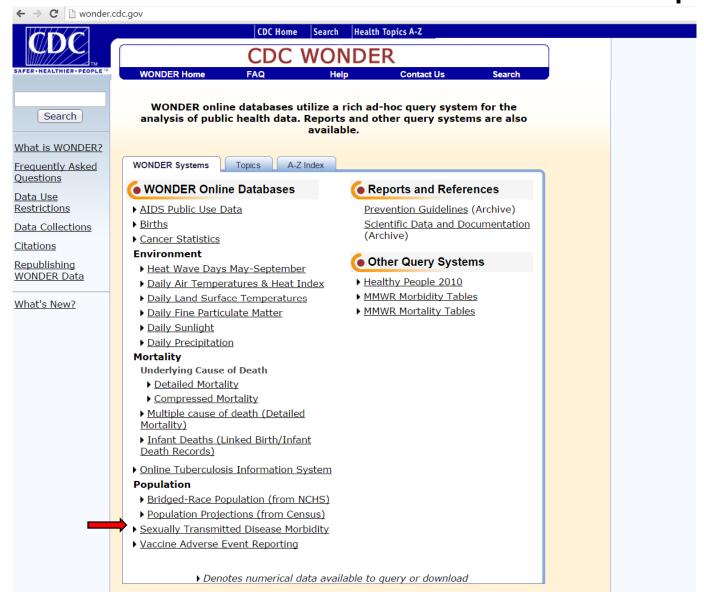
http://www.cdc.gov/nchs/index.htm

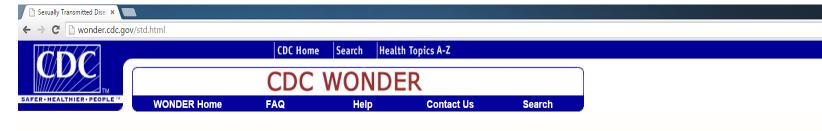


## NCHS – Data access and additional resources



#### CDC WONDER – Data access example





#### Sexually Transmitted Disease Morbidity Data

Q 🗘 👽

Sexually Transmitted Disease Morbidity Data

The following data are summarized from Sexually Transmitted Disease (STD) morbidity case reports reported to the National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention (NCHHSTP), Centers for Disease Control and Prevention (CDC), for the 50 United States and the District of Columbia, Puerto Rico, Virgin Islands and Guam. The number of cases and disease incidence rates are reported by year, type of STD, and area of report and are further aggregated by gender or gender, age group, and race/ethnicity. For more information and publications, see <u>Sexually Transmitted Diseases</u>. Sexually transmitted disease data and statistics from the National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention (NCHHSTP) are also available in the NCHHSTP Atlas.

#### **Current STD Morbidity Data**

These data supersede all previous STD Morbidity data presented on this website.

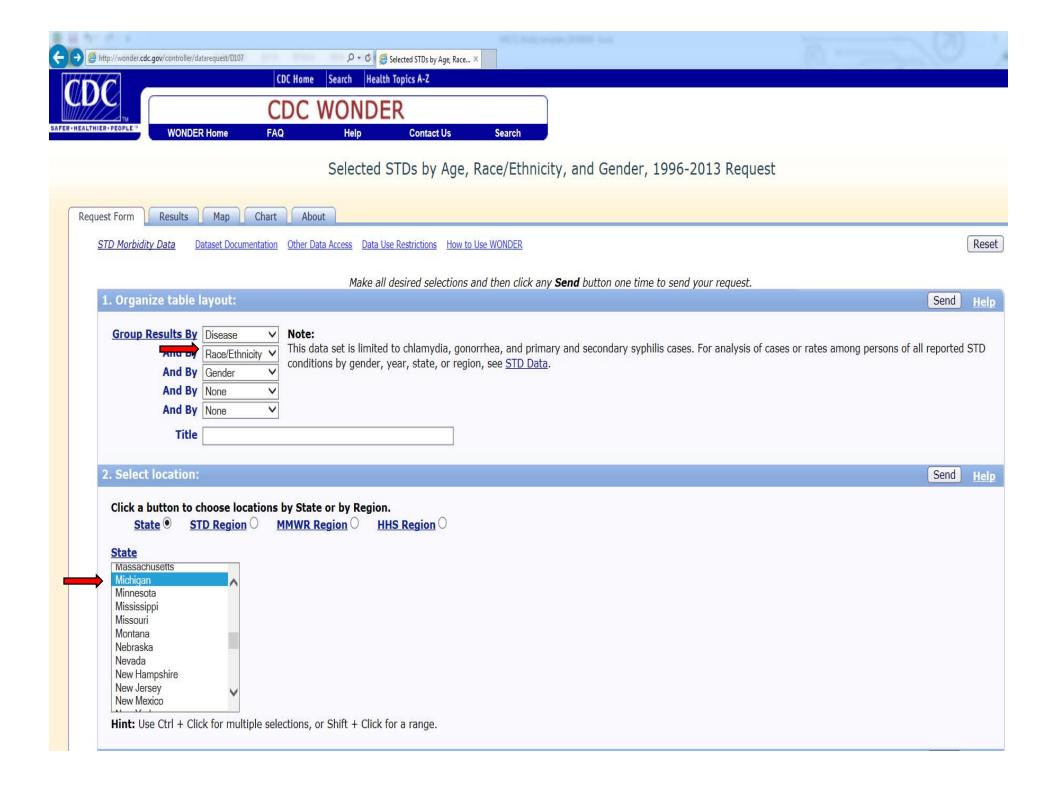
- 1984 2013: by gender, year, type of STD, STD region, MMWR region, HHS region, and state.
  - Data Request More information
- 1996 2013: by gender, age group, race/ethnicity, year, type of STD, STD region, MMWR region, HHS region, and state. These data are limited to chlamydia, gonorrhea and primary and secondary syphilis for the 50 states, DC, and Puerto Rico.

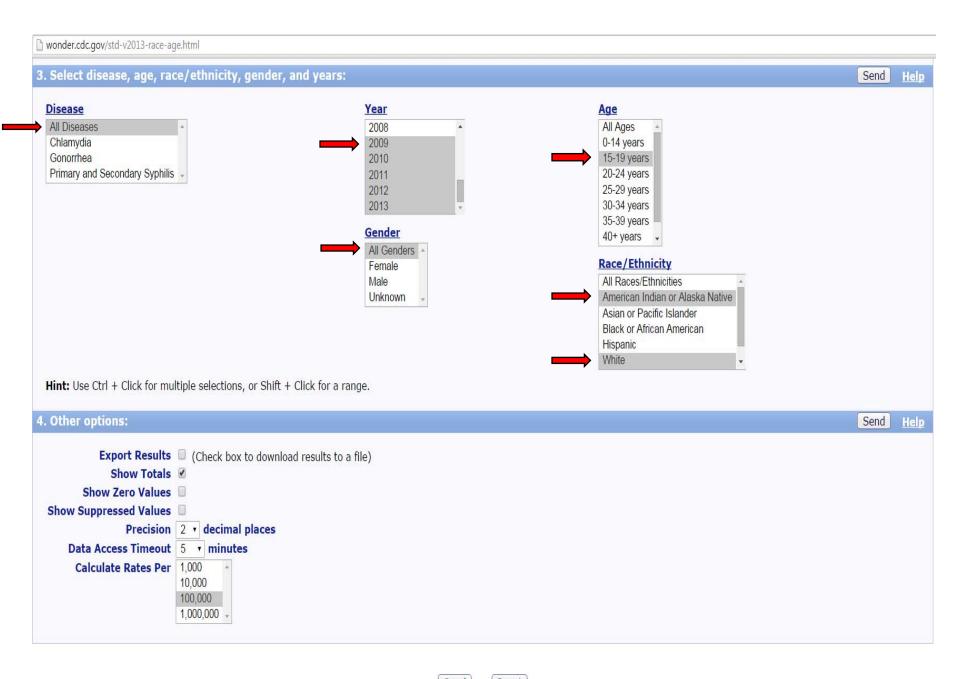
Data Request More information

#### **Archive STD Morbidity Data**

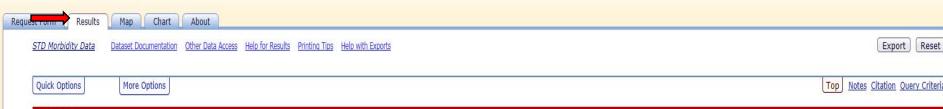
CDC WONDER maintains archive versions of previous releases of data on this website to allow users to replicate data requests that were conducted in the past. Please refer to the main data repositories, listed above, to access current data. Click here to access the archived data.

This page last reviewed: Monday, March 09, 2015





Selected STDs by Age, Race/Ethnicity, and Gender, 1996-2013 Results



#### Messages:

> Rows with zero STD Cases are hidden, but the Population values in those rows are included in the totals. Use Quick Options above to show zero rows.

Disease <b>↓</b>	Race/Ethnicity	Gender	⇒ STD Cases 🚻	<b>2</b> Population <b>1</b> ♥	◆ Rate Per 100,000 👭		
Chlamydia		Female	221	15,040	1,469.41		
	American Indian or Alaska Native	Male	59	15,637	377.31		
		Total	280	30,677	912.74		
		Female	14,291	1,251,578	1,141.84		
	White	Male	2,152	1,325,148	162.40		
		Unknown	10	Not Applicable	Not Applicable		
		Total	16,453	2,576,726	638.52		
	Total		16,733	2,607,403	641.75		
Gonorrhea		Female	30	15,040	199.47		
	American Indian or Alaska Native	Male	9	15,637	57.56		
		Total	39	30,677	127.13		
		Female	1,348	1,251,578	107.70		
	White	Male	267	1,325,148	20.15		
		Total	1,615	2,576,726	62.68		
	Total		1,654	2,607,403	63.43		
Primary and Secondary Syphilis	White	Female	4	1,251,578	0.32		
		Male	11	1,325,148	0.83		
		Total	15	2,576,726	0.58		
	Total		15	2,607,403	0.58		
Total			18,402	7,822,209	235.25		

subgroup. When information is unknown, the cases do not contribute to the numerator and therefore subgroupspecific rates are underestimates of the actual subgroup rate.

Counts and rates shown for the "All" age groups category represent cases for all ages and persons of unknown age. More information.

Race categories presented in these data are "bridged-race" categories and may differ from race categories in other STD reports. More information.

See Selected STDs by Age, Race/Ethnicity, and Gender, 1996-2013 Documentation for more information. Help:

Query Date: Sep 30, 2015 6:31:29 PM

Top Options Notes | Citation | Query Criteria

#### **Suggested Citation:**

US Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for HIV, STD and TB Prevention (NCHSTP), Division of STD/HIV Prevention, Sexually Transmitted Disease Morbidity for selected STDs by age, race/ethnicity and gender 1996-2013, CDC WONDER Online Database. Accessed at http://wonder.cdc.gov/std-v2013-race-age.html on Sep 30, 2015 6:31:29 PM

Top Options Notes Citation | Query Criteria

#### **Query Criteria:**

Title:

Age: 15-19 years

Disease: ΑII Gender:

Race/Ethnicity: American Indian or Alaska Native, White

State: Michigan (26)

Year: 2009, 2010, 2011, 2012, 2013 Group By: Disease, Race/Ethnicity, Gender

Show Totals: True Show Zero Values: False Show Suppressed: False Calculate Rates Per: 100,000

#### Save Data Output

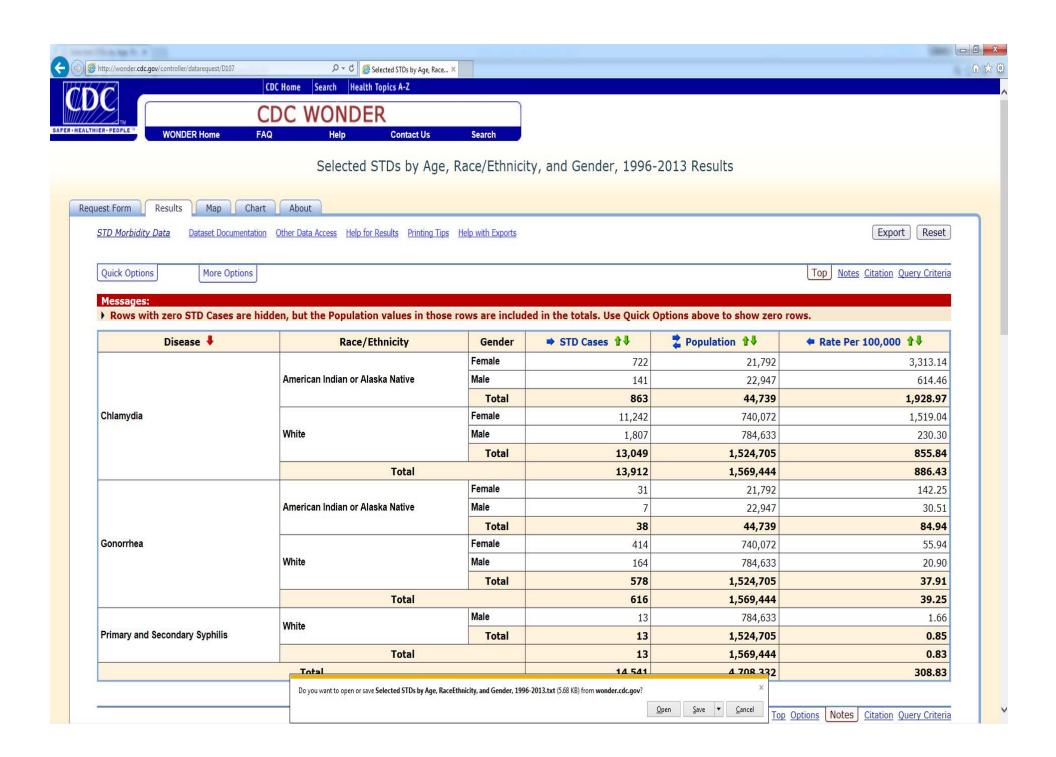
Ways to save the data output

- 1) Screen shot (computer picture) by pressing Alt+PrtSc (or Fn+Alt+PrtSc), then paste .jpg file into a Word document.
- 2) Download output into text file. Import downloaded data into Excel or other program to analyze.

\*Step-by-step instructions on #2 on data export page:

http://wonder.cdc.gov/wonder/help/DataExport.html





```
File Edit Format View Help
                                                                                                                                                    Population
'Notes"
                          "Disease Code" "Race/Ethnicity"
                                                                     "Race/Ethnicity Code"
                                                                                                "Gender"
                                                                                                                 "Gender Code"
        "Disease"
                                                                                                                                  STD Cases
                                                                                                                                                                     Rate
                                  "American Indian or Aláska Native"
                                                                              "1002-5"
"1002-5"
                                                                                                "Female"
                                                                                                                 "F"
         "Chlamydia"
                          "274"
                                                                                                                         221
                                                                                                                                  15040 1469.41
                          "274"
        "Chlamydia"
                                  "American Indian or Alaska Native"
                                                                                                "Male"
                                                                                                                 59
                                                                                                                         15637
                                                                                                                                  377.31
                          "274"
                                                                              "1002-5"
"Total" "Chlamydia"
"Chlamydia"
                                  "American Indian or Alaska Native"
                                                                                                                 280
                                                                                                                         30677
                                                                                                                                  912.74
                                  "White" "2106-3"
"White" "2106-3"
"White" "2106-3"
"White" "2106-3"
                          "274"
                                                                              "F"
                                                             "Female"
                                                                                      14291 1251578 1141.84
                          "274"
        "Chlamydia"
                                                             "Male"
                                                                              2152
                                                                                      1325148 162.40
                          "274"
                                                                              "u"
        "Chlamydia"
                                                             "Unknown"
                                                                                      10
                                                                                               Not Applicable Not Applicable
'Total" "Chlamydia"
'Total" "Chlamydia"
                          "274"
                                                                                      2576726 638.52
                                                                              16453
                          "274"
                                                                              2607403 641.75
                          "280"
         "Gonorrhea"
                                  "American Indian or Alaska Native"
                                                                              "1002-5"
                                                                                                "Female"
                                                                                                                                  15040
                                                                                                                                          199.47
                                                                                                                         30
                          "280"
                                  "American Indian or Alaska Native"
                                                                              "1002-5"
                                                                                                "Male"
                                                                                                                 9
                                                                                                                                  57.56
         "Gonorrhea"
                                                                                                                         15637
'Total" "Gonorrhea'
                          "280"
                                  "American Indian or Alaska Native"
                                                                              "1002-5"
                                                                                                                                  127.13
                                                                                                                 39
                                                                                                                         30677
                                                                              "F"
                          "280"
                                  "White" "2106-3"
        "Gonorrhea"
                                                             "Female"
                                                                                      1348
                                                                                              1251578 107.70
                                  "White" "2106-3"
                          "280"
                                                             "Male"
                                                                                      1325148 20.15
         "Gonorrhea"
                                                                              267
                                  "White" "2106-3"
                          "280"
"Total" "Gonorrhea"
                                                                                      2576726 62.68
                                                                              1615
'Total" "Gonorrhea"
                          "280"
                                                                     1654
                                                                              2607403 63.43
                                                    "310"
        "Primary and Secondary Syphilis"
                                                            "White" "2106-3"
                                                                                       "Female"
                                                                                                                         1251578 0.32
                                                            "White" "2106-3"
                                                    "310"
                                                                                       "Male"
                                                                                                                1325148 0.83
        "Primary and Secondary Syphilis"
                                                                                                        11
                                                    "310"
                                                            "White" "2106-3"
"Total" "Primary and Secondary Syphilis"
                                                                                                        15
                                                                                                                 2576726 0.58
"Total" "Primary and Secondary Syphilis"
                                                    "310"
                                                                                               15
                                                                                                        2607403 0.58
'Total"
                                                            18402
                                                                    7822209 235.25
'Dataset: Selected STDs by Age, Race/Ethnicity, and Gender, 1996-2013"
'Querv Parameters:'
"Titlé:"
'Age: 15-19 years"
'Dīsease: All'
'Gender: All"
'Race/Ethnicity: American Indian or Alaska Native, White"
'State: Michigan (26)"
Year: 2009, 2010, 2011, 2012, 2013"
 Group By: Disease, Race/Ethnicity, Gender"
'Show Totals: True'
'Show Zero Values: False"
'Show Suppressed: False"
'Calculate Rates Per: 100.000"
Help: See http://wonder.cdc.gov/wonder/help/std-race-age-frame.html for more information."
'Query Date: Sep 30, 2015 6:14:33 PM"
'Suggested Citation: US Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for
"HIV, STD and TB Prevention (NCHSTP), Division of STD/HIV Prevention, Sexually Transmitted Disease Morbidity for selected STDs by"
"age, race/ethnicity and gender 1996-2013, CDC WONDER Online Database. Accessed at http://wonder.cdc.gov/std-v2013-race-age.html"
'on Sep 30, 2015 6:14:33 PM"
"1. Rows with zero STD Cases are hidden, but the Population values in those rows are included in the totals. Use Quick Options"
'above to show zero rows.'
Caveats:
'1. The phrase 'Not Reported' is shown when the specific disease was not reported for the given location and year. The phrase"
 'Not Applicable' is shown when the denominator population is not on record, or when the rate cannot be calculated due to lack of"
'disease incidence count or lack of denominator population."
2. Prior to 2003, some reporting entities reported summary cases through paper forms. Reporting entities differed in their"
ability to reconcile differences in total cases derived from summary hardcopy monthly, quarterly, and annual reports. Thus,'
'there may be discrepancies when comparing the total number of cases reported through different data sources. This application"
 'includes data for age, race/ethnicity and gender reported on form CDC 73.2638 reports for years 1996-2002. More information:"
http://wonder.cdc.gov/wonder/help/std-race-age-frame.html#Reporting Issues.'
3. Chlamydia was not reported for all of New York state in years 1996-1999. More information:"
http://wonder.cdc.gov/wonder/help/std-race-age-frame.html#Chlamydia.'
'4. Please see help file for specifics about reporting irregularities and population data. More information:"
http://wonder.cdc.gov/wonder/help/std-race-age-frame.html#Ábout Rates."
```

## Import Text file to Excel (Pt. 1)

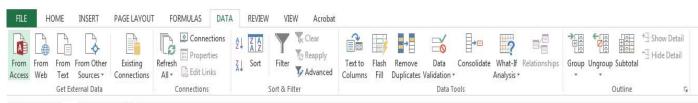
- 1) Open an Excel document.
- 2) Click on the "Data" tab at top of screen.
- 3) Click on "Import from text".
- 4) Locate the Text file that we saved.
- 5) Click on the file.
- 6) Click "Import".



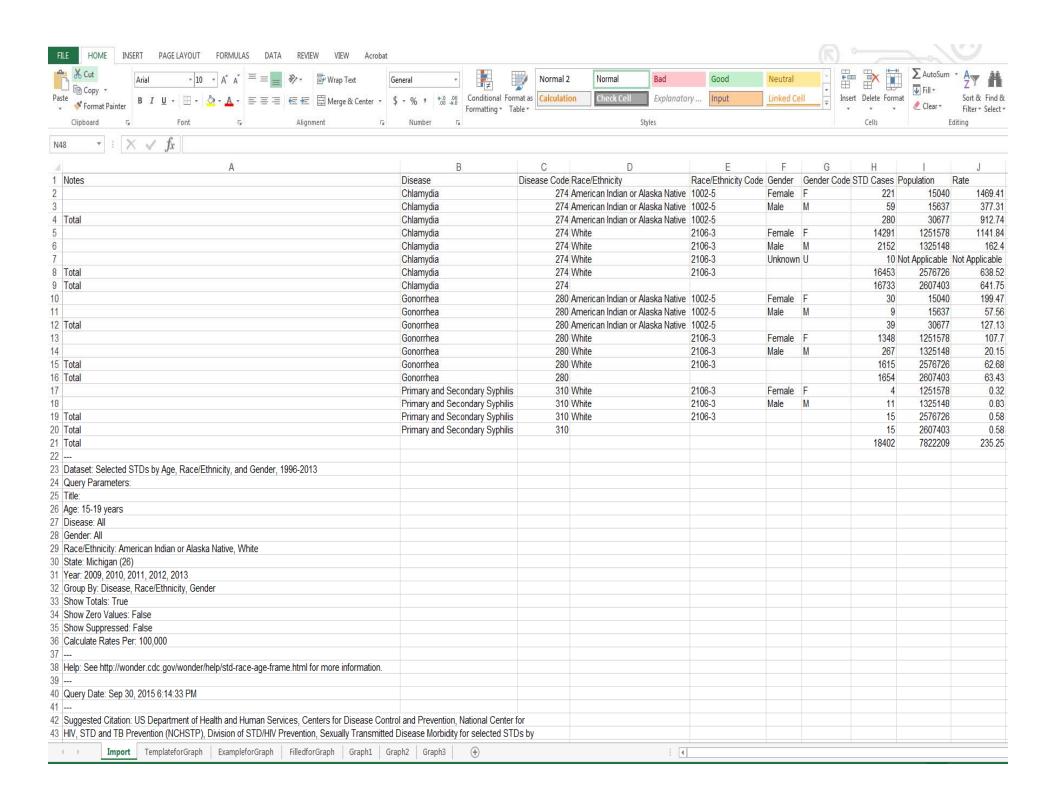
## Import Text file to Excel (Pt. 2)

- "Text Import Wizard"- keep the default choices.
- 7) Keep "Delimited" file type and click "Next".
- 8) Keep "Tab" delimiters and click "Next".
- 9) Keep "General" as column data format and click "Finish".
- 10) Keep "Existing worksheet" and click "Ok".





A	В	С	D	E	F	G	Н	I	J
Notes	Disease	Disease Code	Race/Ethnicity	Race/Ethnicity Code	Gender	Gender Code	STD Cases Po	oulation	Rate
	Chlamydia	27	4 American Indian or Alaska Native	1002-5	Female	F	221	15040	1469.4
3	Chlamydia	27	4 American Indian or Alaska Native	1002-5	Male	M	59	15637	377.3
4 Total	Chlamydia	27	4 American Indian or Alaska Native	1002-5			280	30677	912.74
5	Chlamydia	27	4 White	2106-3	Female	F	14291	1251578	1141.84
6	Chlamydia	27	4 White	2106-3	Male	M	2152	1325148	162.4
7	Chlamydia	27	4 White	2106-3	Unknown	U	10 No	t Applicable	Not Applicable
8 Total	Chlamydia	27	4 White	2106-3			16453	2576726	638.52
9 Total	Chlamydia	27	4				16733	2607403	641.7
10	Gonorrhea	28	O American Indian or Alaska Native	1002-5	Female	F	30	15040	199.4
11	Gonorrhea	28	O American Indian or Alaska Native	1002-5	Male	M	9	15637	57.50
1.2 Total	Gonorrhea	28	O American Indian or Alaska Native	1002-5			39	30677	127.13
13	Gonorrhea	28	0 White	2106-3	Female	F	1348	1251578	107.
14	Gonorrhea	28	0 White	2106-3	Male	M	267	1325148	20.1
Total	Gonorrhea	28	0 White	2106-3			1615	2576726	62.68
16 Total	Gonorrhea	28	0				1654	2607403	63.43
17	Primary and Secondary Syphilis	31	0 White	2106-3	Female	F	4	1251578	0.32
18	Primary and Secondary Syphilis	31	0 White	2106-3	Male	M	11	1325148	0.83
19 Total	Primary and Secondary Syphilis	31	0 White	2106-3			15	2576726	0.58
70 Total	Primary and Secondary Syphilis	31	0				15	2607403	0.58
21 Total							18402	7822209	235.25
22									
Dataset: Selected STDs by Age, Race/Ethnicity, and Gender, 1996-2013									
Query Parameters:									
25 Title:									
26 Age: 15-19 years									
Disease: All									
Gender: All									
29 Race/Ethnicity: American Indian or Alaska Native, White									
30 State: Michigan (26)									
31 Year: 2009, 2010, 2011, 2012, 2013									
Group By: Disease, Race/Ethnicity, Gender									
33 Show Totals: True									
34 Show Zero Values: False									
35 Show Suppressed: False									
Calculate Rates Per: 100,000									



#### STD Data Resources

IHS STD Report 2011

http://www.cdc.gov/std/stats/ihs/ihs-surv-report-2011\_062314.pdf

- UIHI's Viral Hepatitis and STI Prevention Project
   <a href="http://www.uihi.org/projects/viral-hepatitis-and-sti-prevention-project/">http://www.uihi.org/projects/viral-hepatitis-and-sti-prevention-project/</a>
- IHS Primary Care Provider (April 2010 issue)
   <a href="http://www.ihs.gov/provider/includes/themes/newihstheme/display\_objects/documents/2010\_2019/PROV0410.pdf">http://www.ihs.gov/provider/includes/themes/newihstheme/display\_objects/documents/2010\_2019/PROV0410.pdf</a>
- Morbidity and Mortality Weekly Report (Jan 2015, vol 64, issue 1)

http://www.cdc.gov/mmwr/preview/mmwrhtml/mm6401a5.htm?s\_cid=mm6401a5\_w



#### Sneak Peak... Module 2!

- Analyze the data
- Create graphs
- Write summary statements about data



#### Summary

- Health data is a powerful tool, especially for the Native communities you serve.
- Many ways to access different sources of health data.
- All data have limitations, but there are ways to use imperfect data.





## URBAN INDIAN HEALTH INSTITUTE

Seattle Indian Health Board 611 12<sup>th</sup> Avenue South Seattle, WA 98144

Phone: (206) 812-3030

Fax: (206) 812-3044

Email: info@uihi.org

Website: www.uihi.org

