UTILIZING EPI-INFO FOR DATA ENTRY AND ANALYSIS

REGIONAL SEMINAR ON DRUG TREATMENT AND DRUG INFORMATION NETWORKS IN THE CARIBBEAN

Tiffany Barry
Project Assistant, Inter-American Observatory on Drugs (OID)
September, 2017
Port of Spain, Trinidad and Tobago

What is Epi-Info

* Epi- Info is a free statistical software developed by the Center for Disease Control and Prevention (CDC) for public health practitioners and researchers.

* It provides an easy to develop data entry format and database construction and data analysis tools.

* The OID utilizes Epi-Info 7 for use in the Regional Drug Treatment Data Collection Project

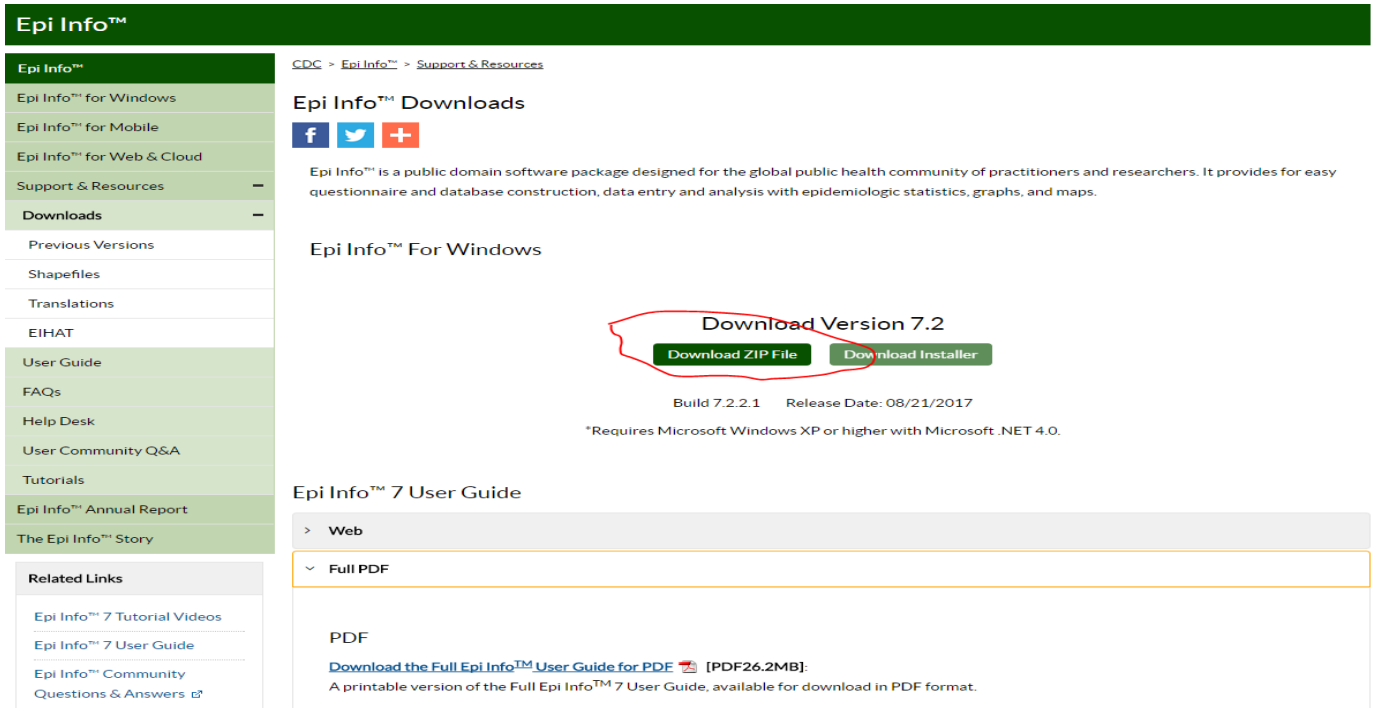
* More information about epi-info can be found on the CDC website: https://www.cdc.gov/epiinfo/index.html

For this presentation we will be doing a step by step walk through on how to use the epi info software:

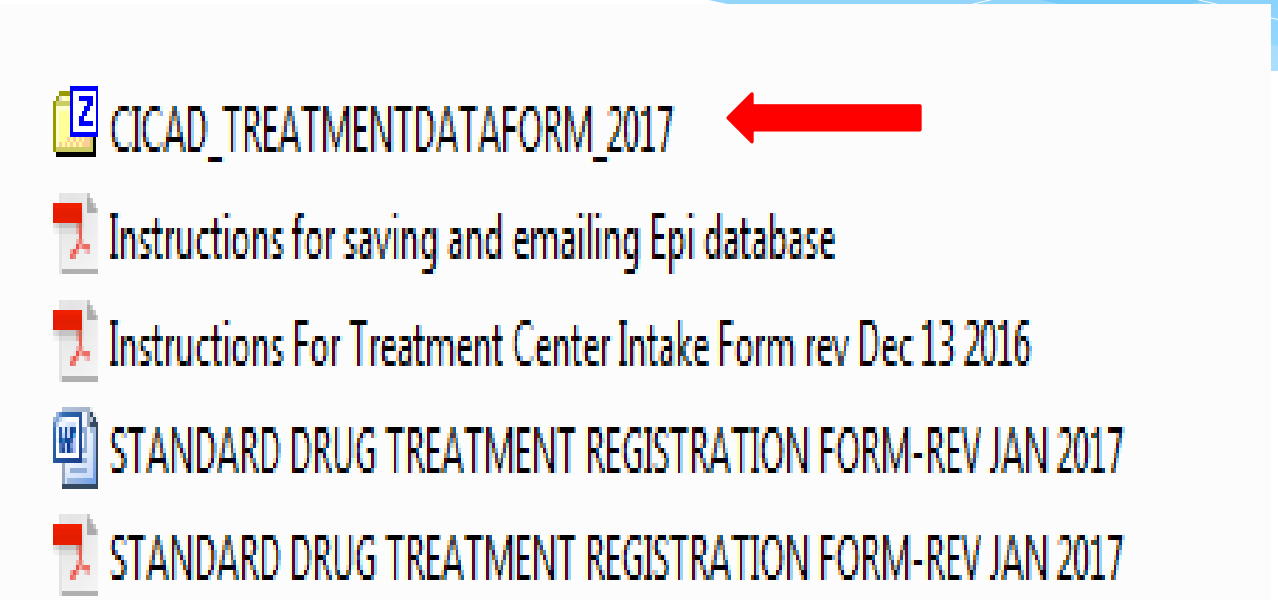
* Downloading
* Uploading the program
* Entering data
* Saving and sending the Epi file
* Using Epi-Info for data analysis
* Exporting the database

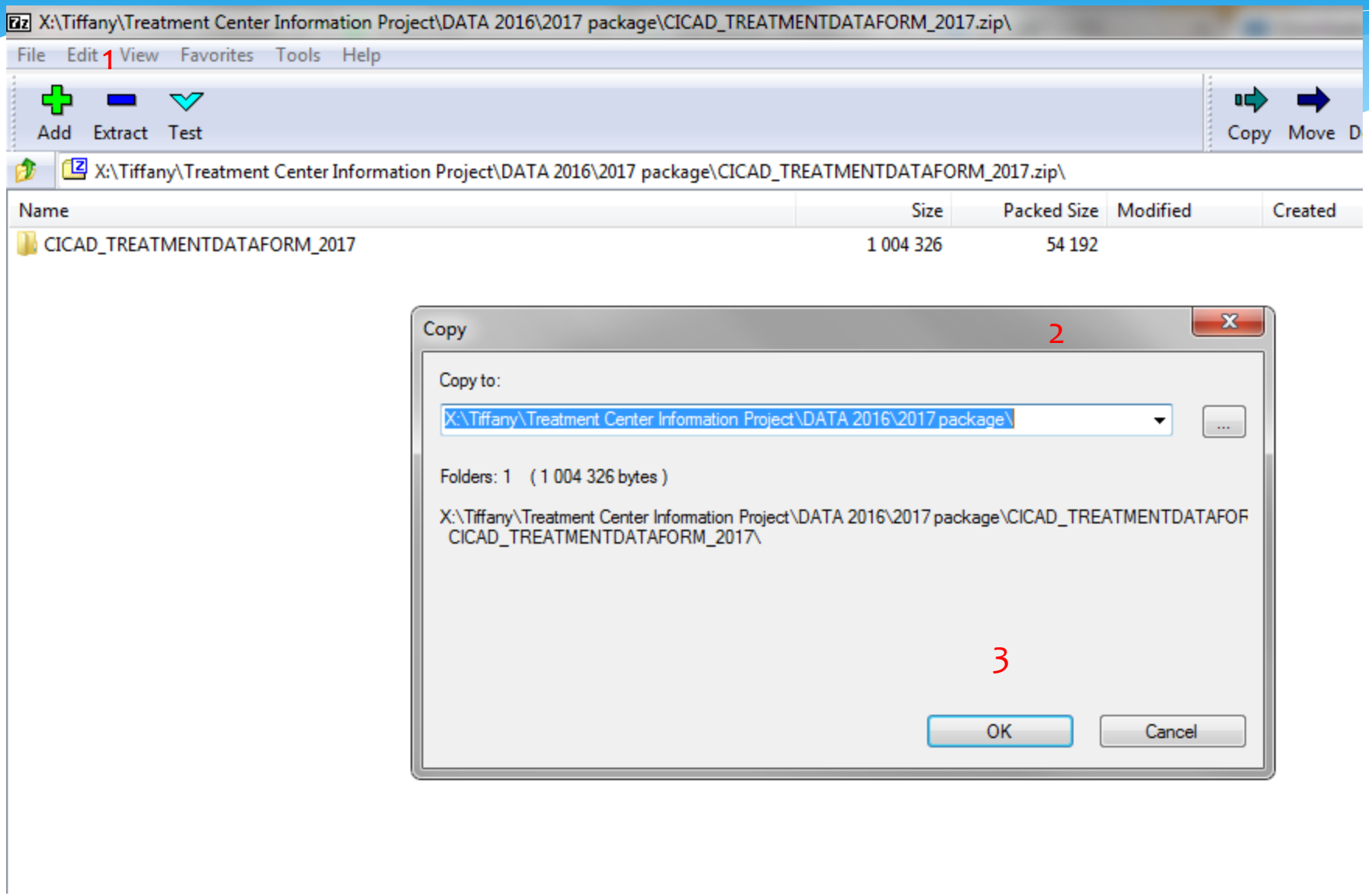
Downloading Epi-Info

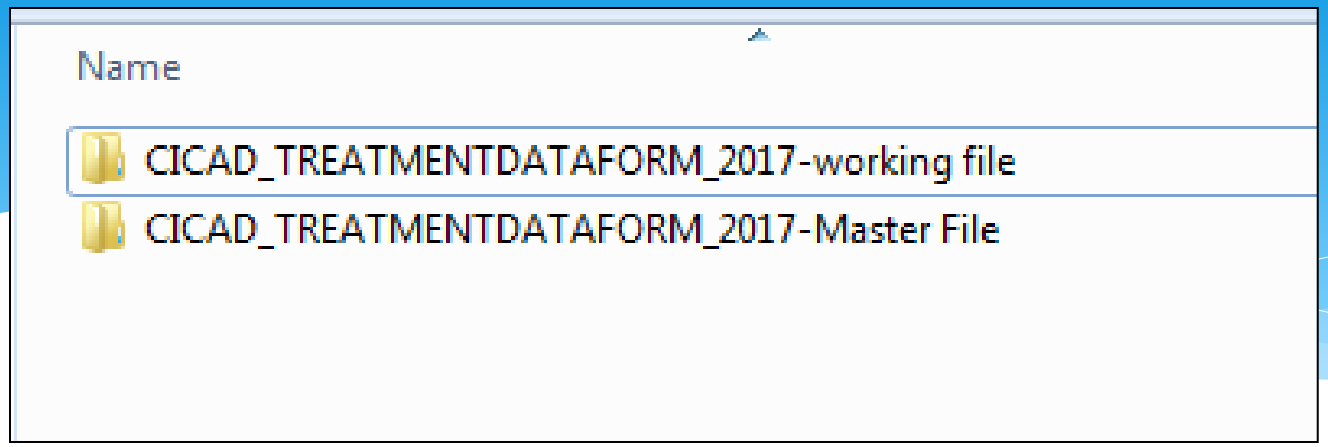
* Go to the website: https://www.cdc.gov/epiinfo/support/downloads.html



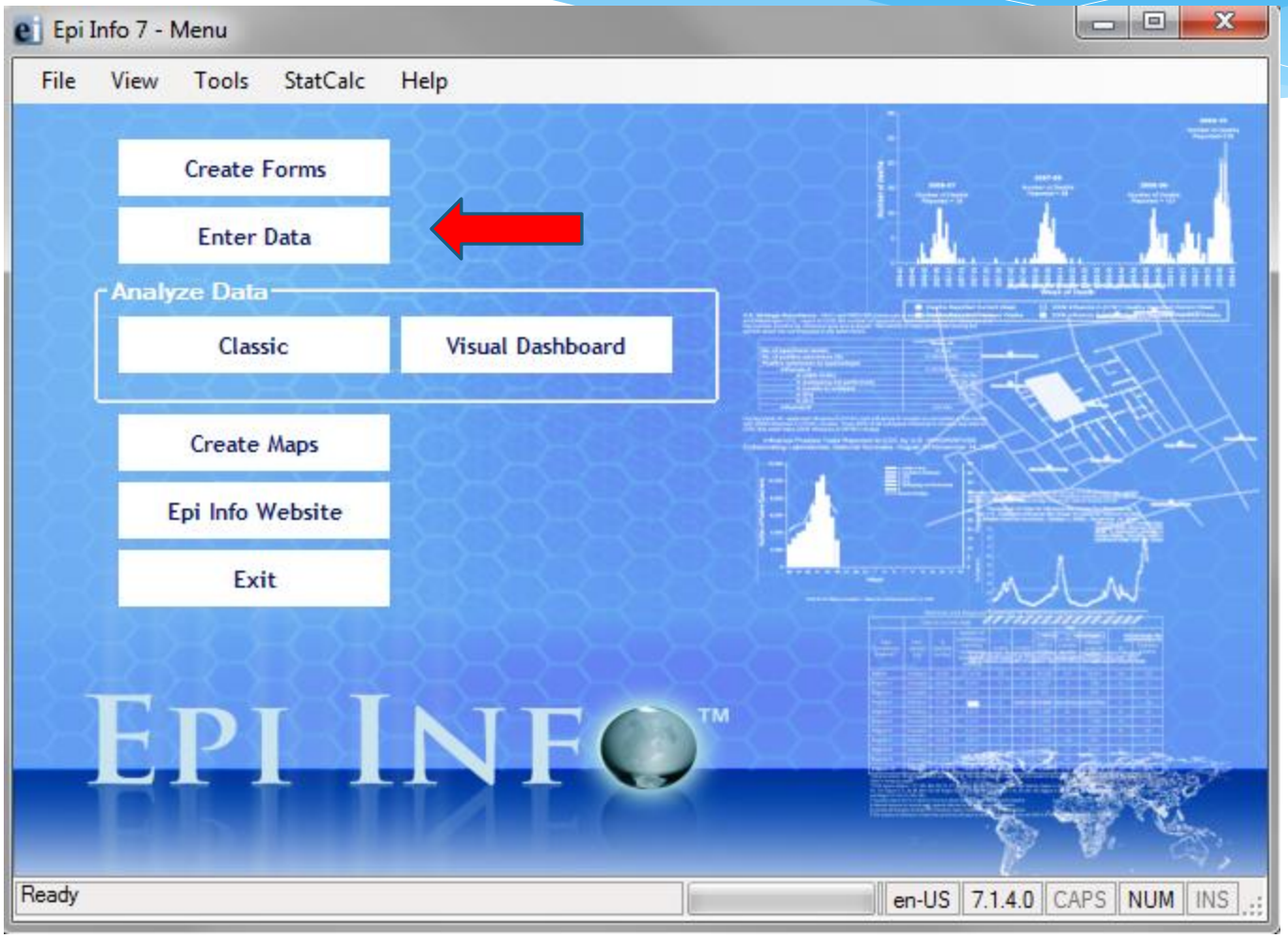
Uploading the program

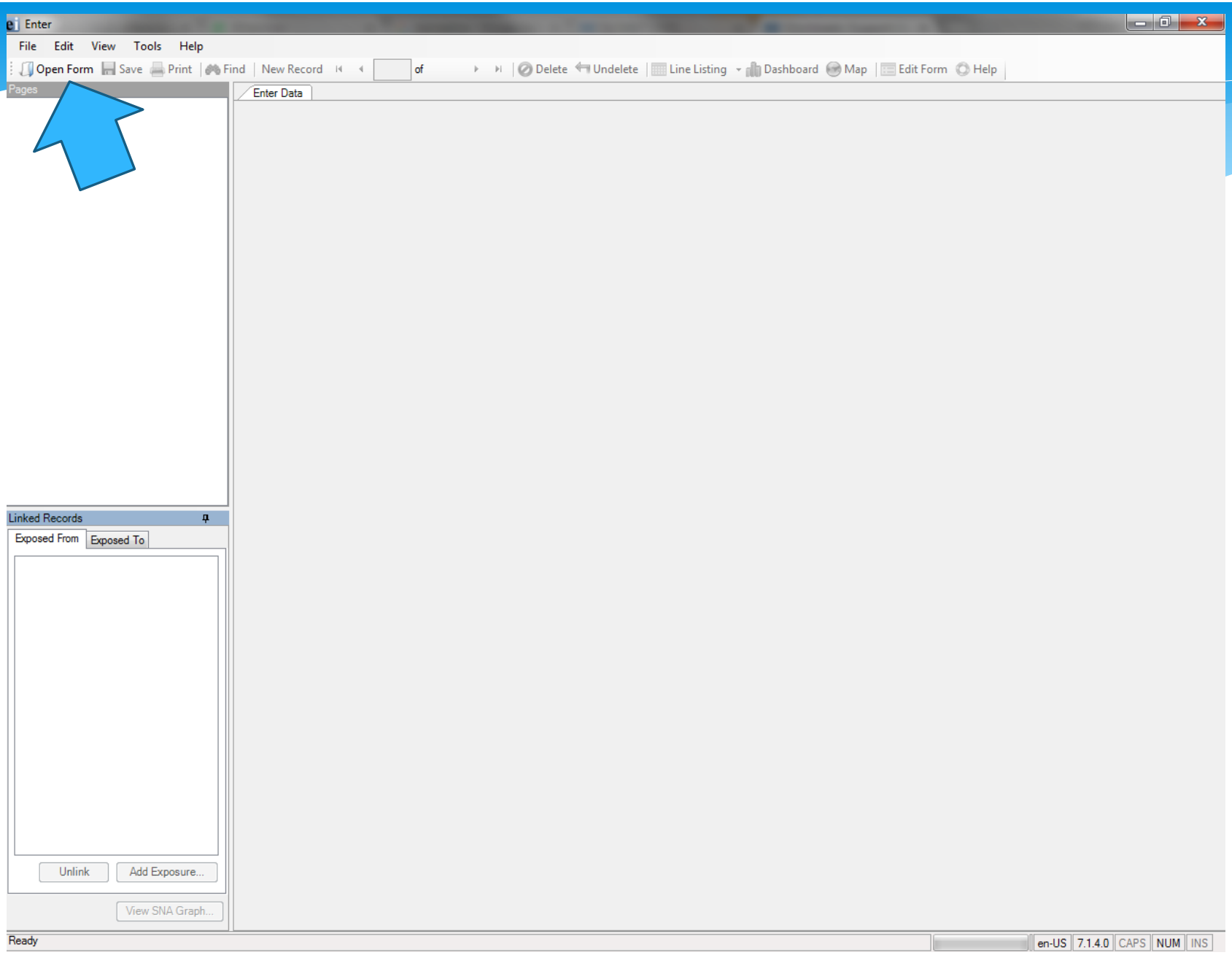


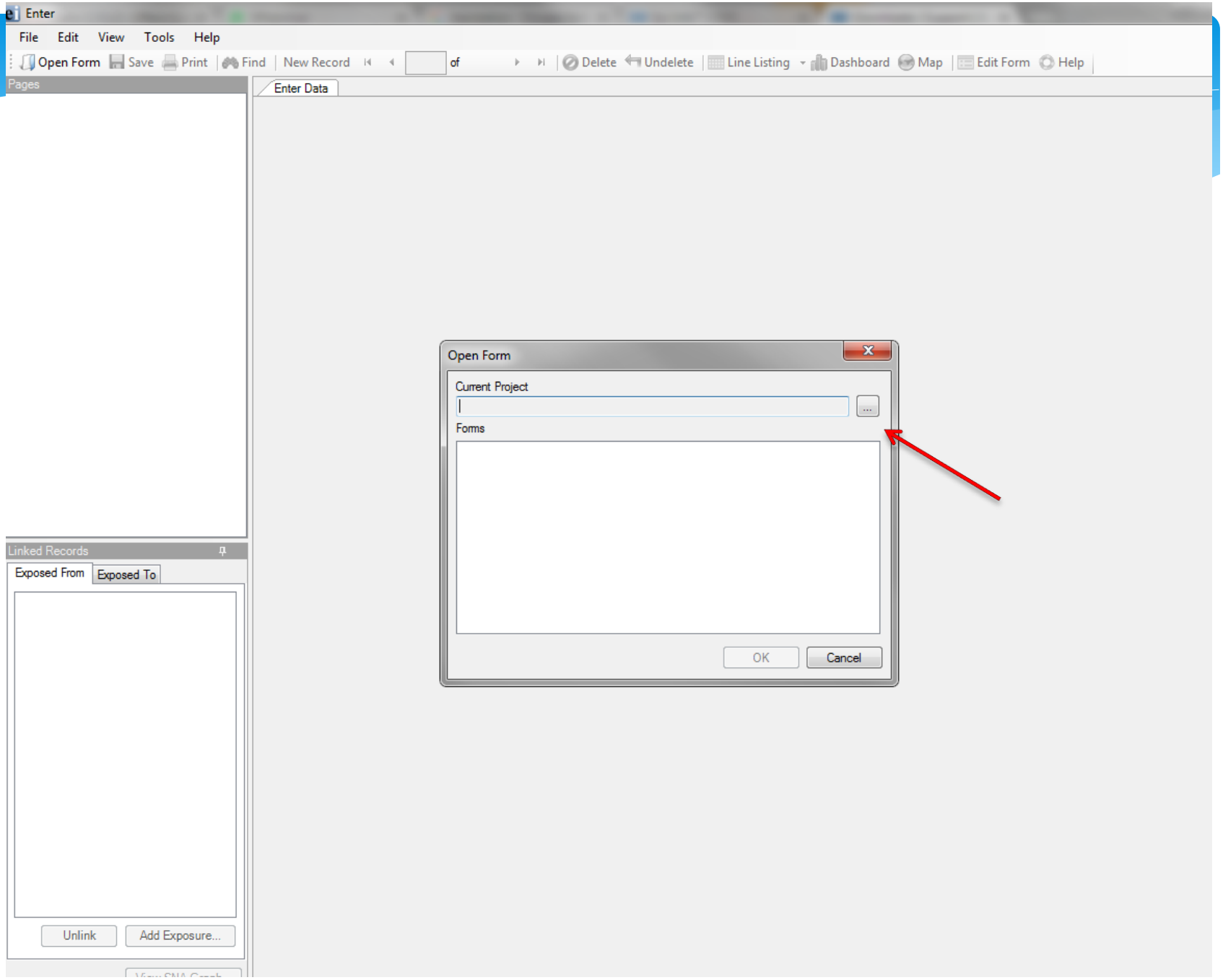

X:\Tiffany\Treatment Center Information Project\DATA 2016\2017 package\CICAD_TREATMENTDATAFORM_2017.zip\
File Edit View Favorites Tools Help
1
Add Extract Test
Copy Move D
X:\Tiffany\Treatment Center Information Project\DATA 2016\2017 package\CICAD_TREATMENTDATAFORM_2017.zip\
Name Size Packed Size Modified Created
CICAD_TREATMENTDATAFORM_2017 1 004 326 54 192
Copy
2
Copy to:
X:\Tiffany\Treatment Center Information Project\DATA 2016\2017 package\
Folders: 1 (1 004 326 bytes)
X:\Tiffany\Treatment Center Information Project\DATA 2016\2017 package\CICAD_TREATMENTDATAFOF
CICAD_TREATMENTDATAFORM_2017\
3
OK
Cancel

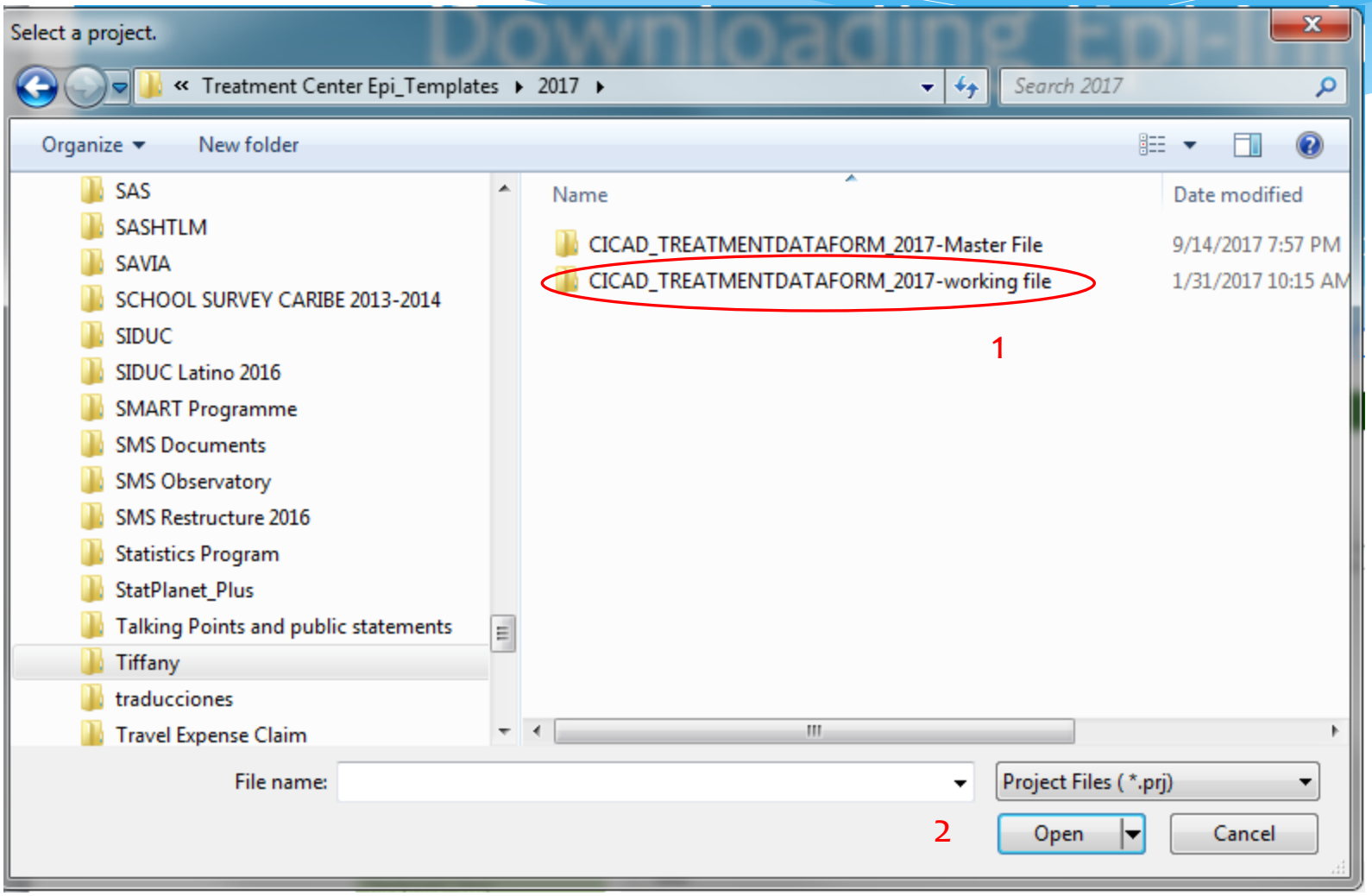


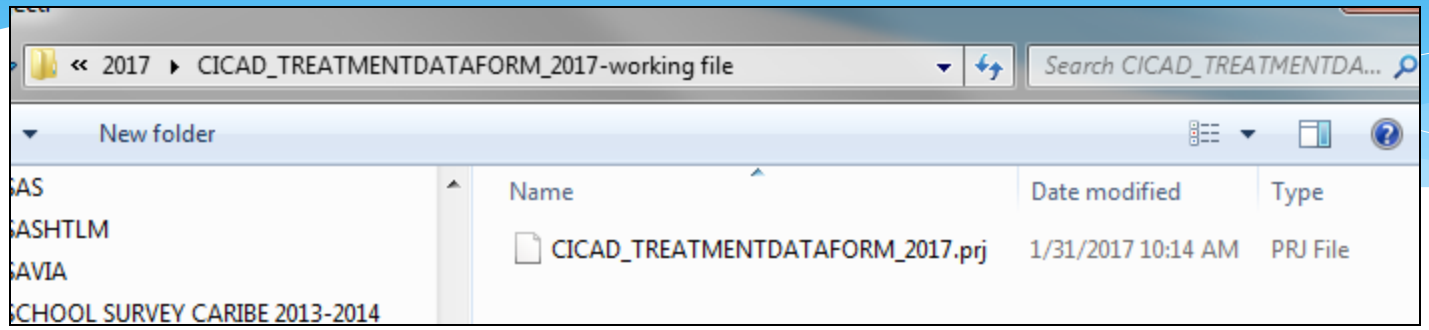
the working file is what I will upload into the Epi-info software


Epi Info 7 - Menu
File
View
Tools
StatCalc
Help
Create Forms
Enter Data
Analyze Data
Classic
Visual Dashboard
Create Maps
Epi Info Website
Exit
EPI INFO™
Ready
en-US
7.1.4.0
CAPS
NUM
INS

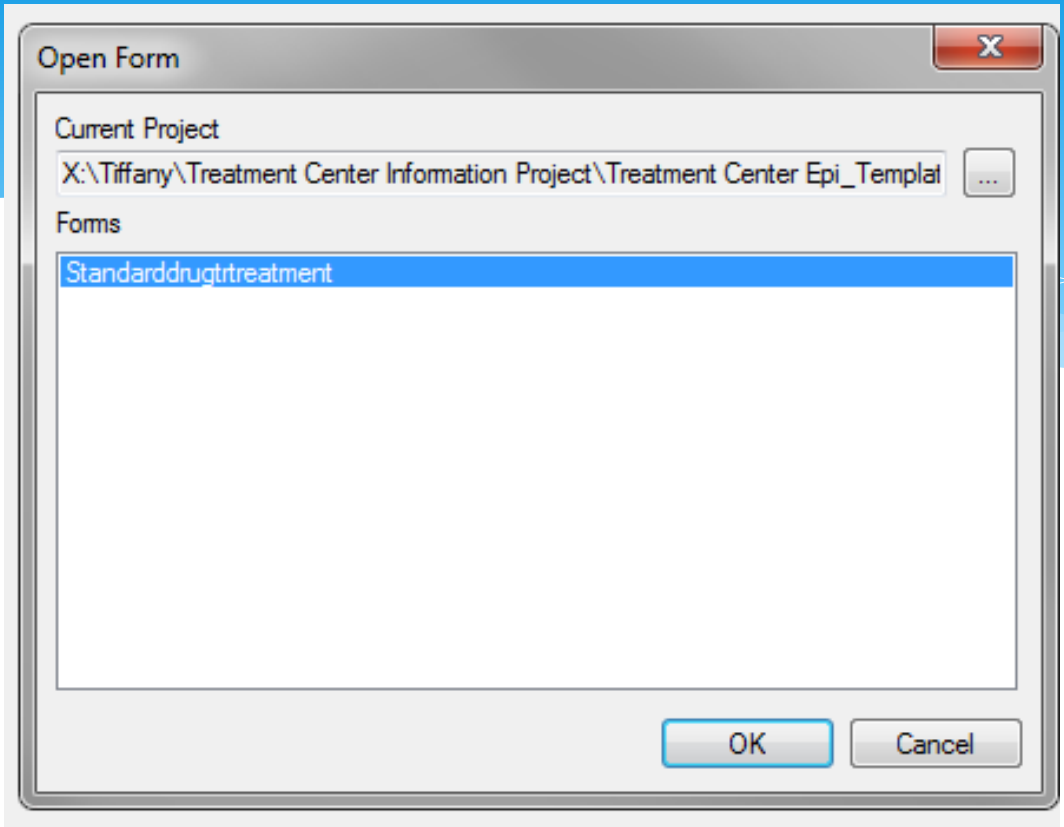

Enter
File
Edit
View
Tools
Help
Open Form
Save
Print
Find
New Record
of
Delete
Undelete
Line Listing
Dashboard
Map
Edit Form
Help
Pages
Enter Data
Linked Records
Exposed From
Exposed To
Unlink
Add Exposure...
View SNA Graph...
Ready
en-US
7.1.4.0
CAPS
NUM
INS


Enter
File
Edit
View
Tools
Help
Open Form
Save
Print
Find
New Record
of
Delete
Undelete
Line Listing
Dashboard
Map
Edit Form
Help
Pages
Enter Data
Linked Records
Exposed From
Exposed To
Unlink
Add Exposure...
Open Form
Current Project
...
Forms
OK
Cancel


Select a project.
Treatment Center Epi_Templates ▸ 2017 ▸
Search 2017
Organize
New folder
SAS
SASHTLM
SAVIA
SCHOOL SURVEY CARIBE 2013-2014
SIDUC
SIDUC Latino 2016
SMART Programme
SMS Documents
SMS Observatory
SMS Restructure 2016
Statistics Program
StatPlanet_Plus
Talking Points and public statements
Tiffany
traducciones
Travel Expense Claim
Name
Date modified
CICAD_TREATMENTDATAFORM_2017-Master File
9/14/2017 7:57 PM
CICAD_TREATMENTDATAFORM_2017-working file
1/31/2017 10:15 AM
1
File name:
Project Files (*.prj)
2
Open
Cancel



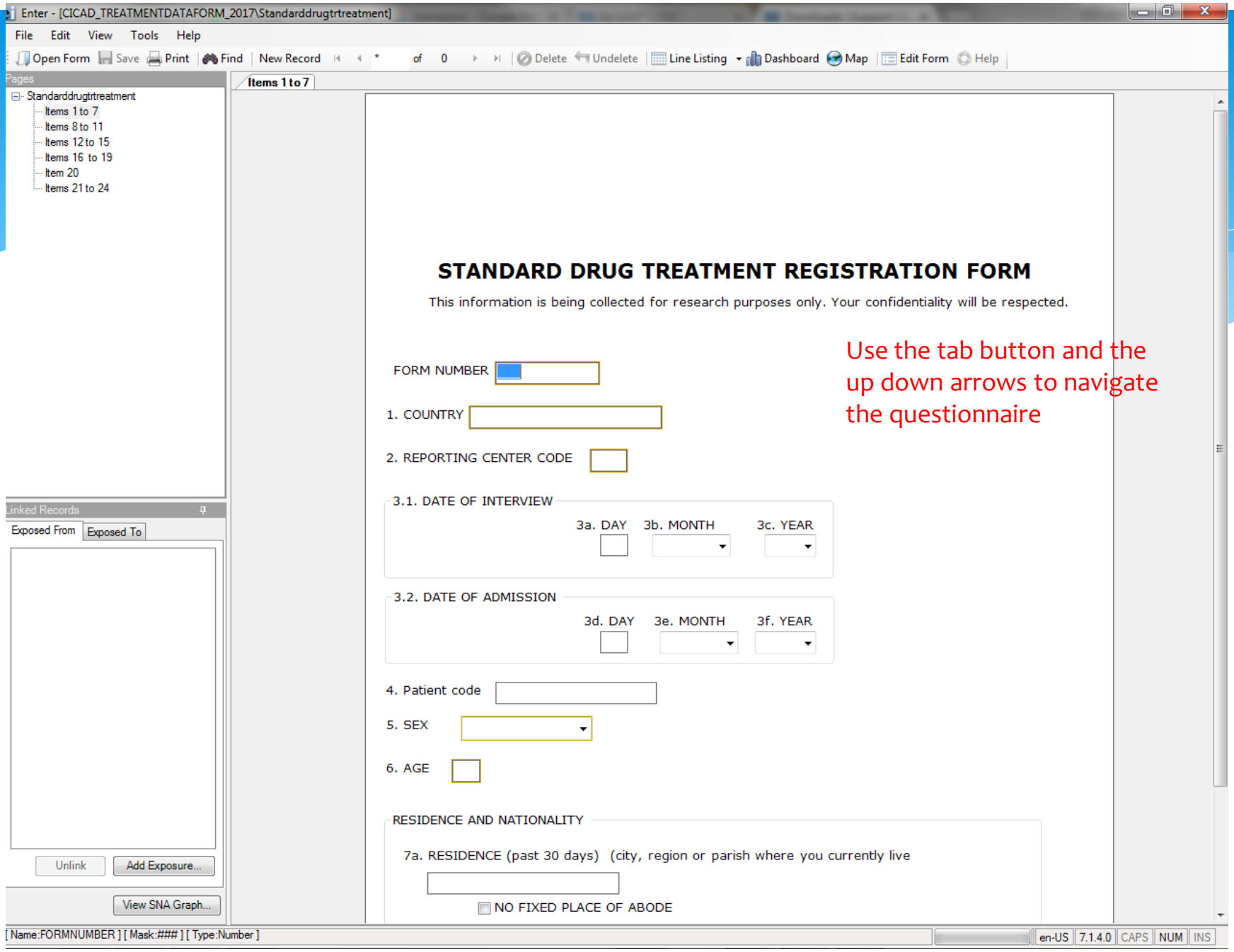
once you click open, you will only see the .prg file… select that


Open Form
Current Project
X:\Tiffany\Treatment Center Information Project\Treatment Center Epi_Templat
...
Forms
Standarddrugtrtreatment
OK
Cancel

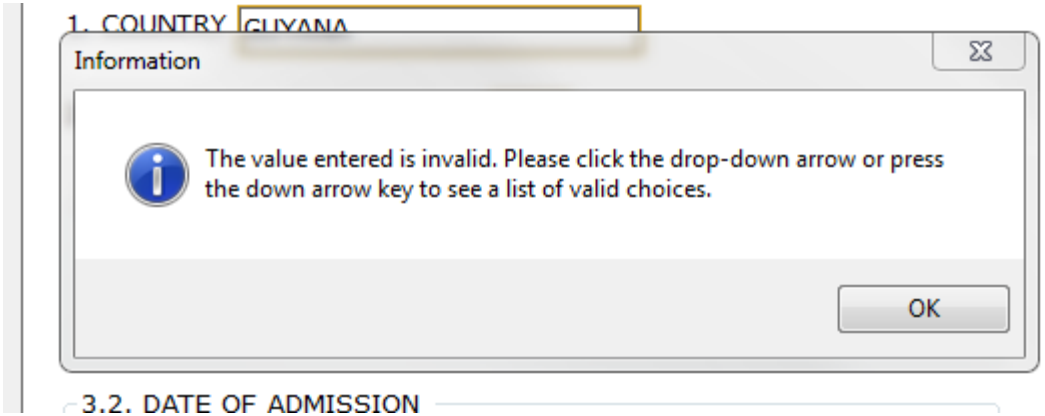
Click ok

Saving and Sending Epi File

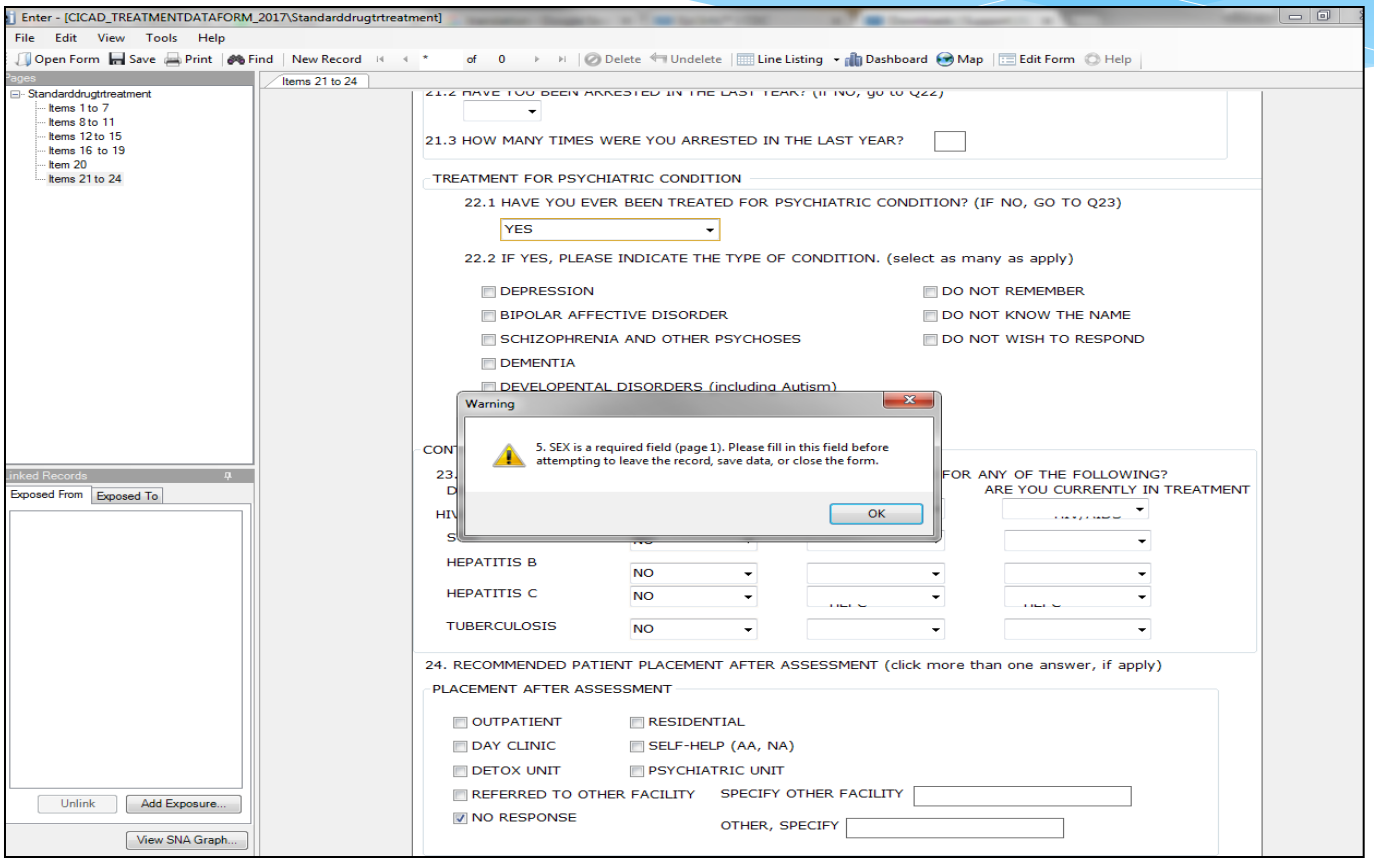
Data Entry


Enter - [CICAD_TREATMENTDATAFORM_2017\Standarddrugtrtreatment]
File Edit View Tools Help
Open Form Save Print Find New Record * of 0 Delete Undelete Line Listing Dashboard Map Edit Form Help
Pages
Standarddrugtrtreatment
Items 1 to 7
Items 8 to 11
Items 12 to 15
Items 16 to 19
Item 20
Items 21 to 24
Items 1 to 7
STANDARD DRUG TREATMENT REGISTRATION FORM
This information is being collected for research purposes only. Your confidentiality will be respected.
Use the tab button and the up down arrows to navigate the questionnaire
FORM NUMBER
1. COUNTRY
2. REPORTING CENTER CODE
3.1. DATE OF INTERVIEW
3a. DAY 3b. MONTH 3c. YEAR
3.2. DATE OF ADMISSION
3d. DAY 3e. MONTH 3f. YEAR
4. Patient code
5. SEX
6. AGE
RESIDENCE AND NATIONALITY
7a. RESIDENCE (past 30 days) (city, region or parish where you currently live
NO FIXED PLACE OF ABODE
Linked Records
Exposed From
Exposed To
Unlink
Add Exposure...
View SNA Graph...
[Name:FORMNUMBER] [Mask:###] [Type:Number]
en-US 7.1.4.0 CAPS NUM INS

- If you enter an invalid key, then the system will notify you



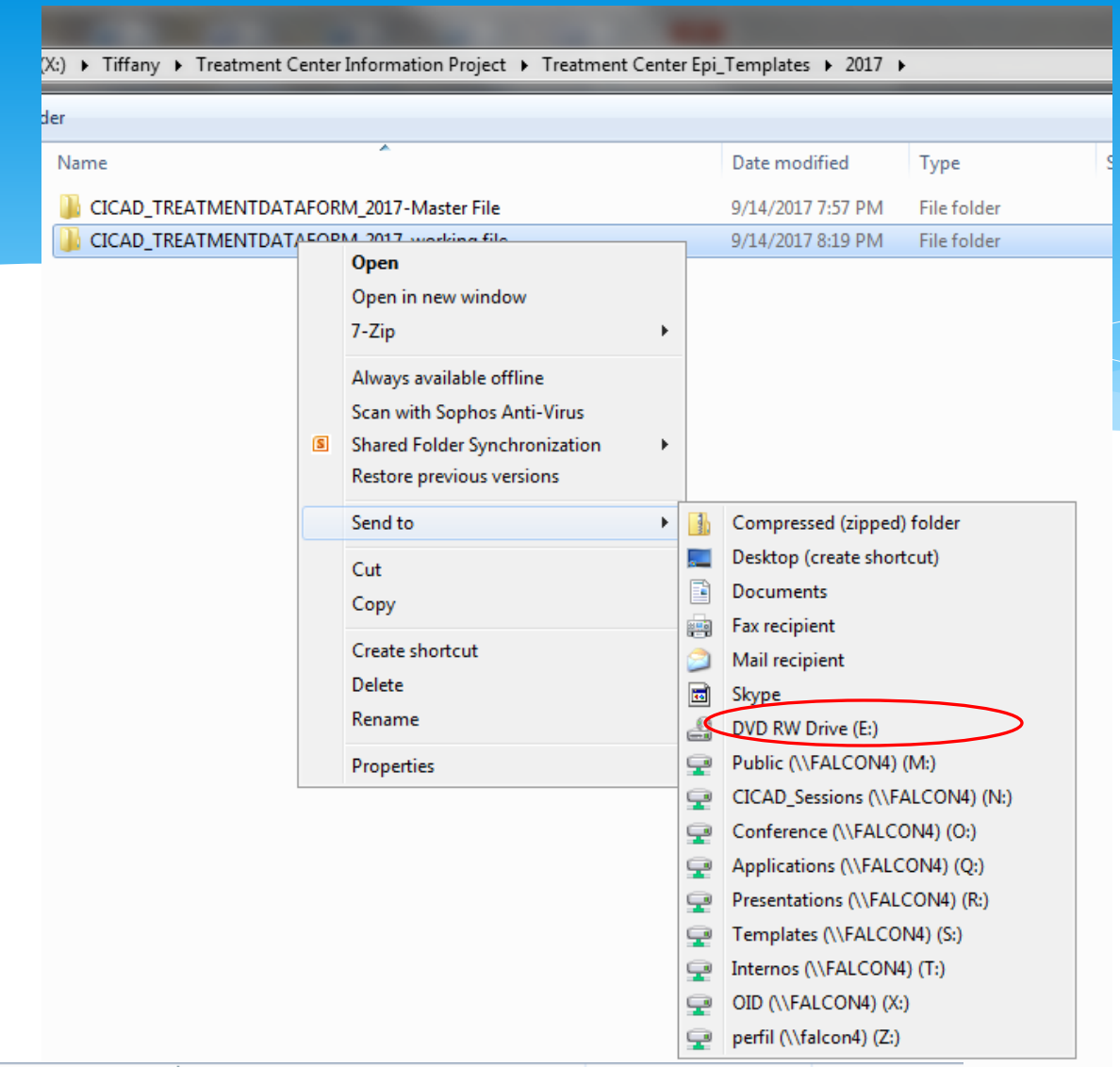
- There are several skip patterns built into the program based on responses.
- If you skip a mandatory field, the program will notify you at the end of the questionnaire

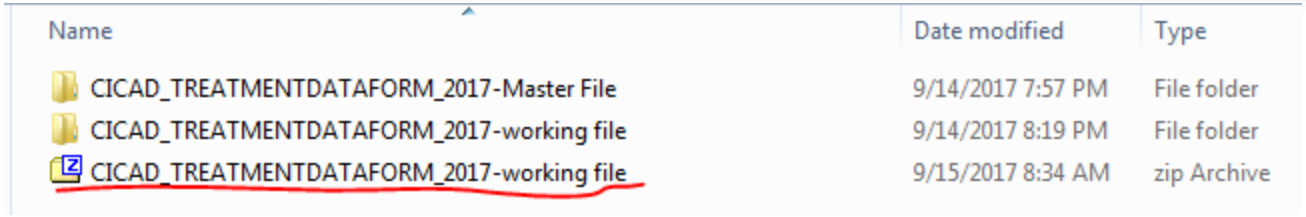


Saving and Sending the Epi File

* CICAD requires that countries send us data twice yearly
  * July 31: Data from 1 January to 30 June
  * January 31: Data from 1 July to December 31

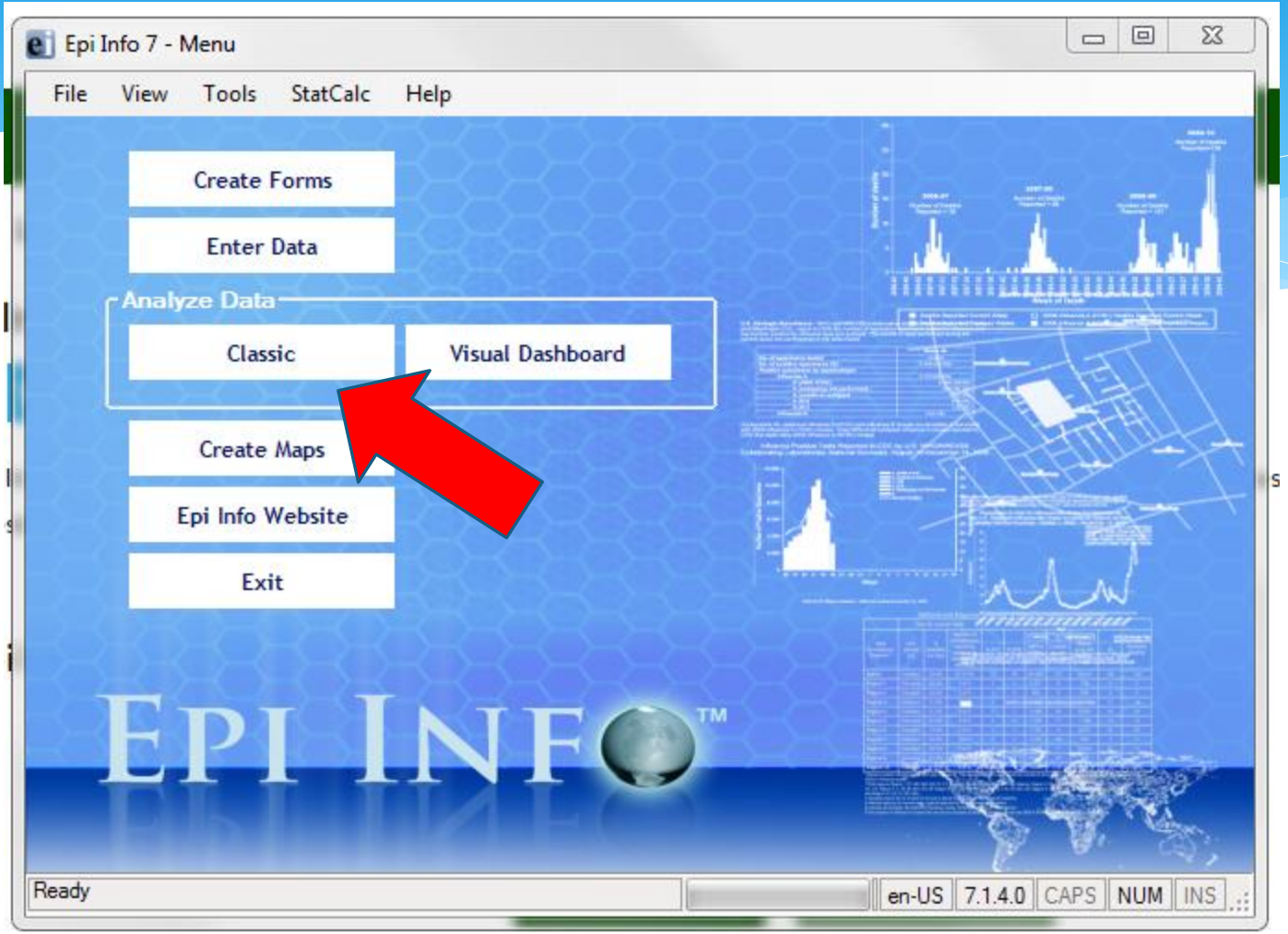
* Of course country coordinators are encouraged to be in regular communication with participating treatment centers and based on volume of completed paper forms, collect them at least once monthly and enter into the Epi program
  * This allows for quality assurance checks
  * Reduces fatigue to comply with submission deadlines
  * Allows time to verify data in a timely manner and get feed back form the centers with any questionable information
  * For centers who use the Epi program, the built in quality assurance check in the 2017 program should ensure that the data you submit is clean.
  * There should always be a verification mechanism built in to ensure that all data collected is as clean as possible.

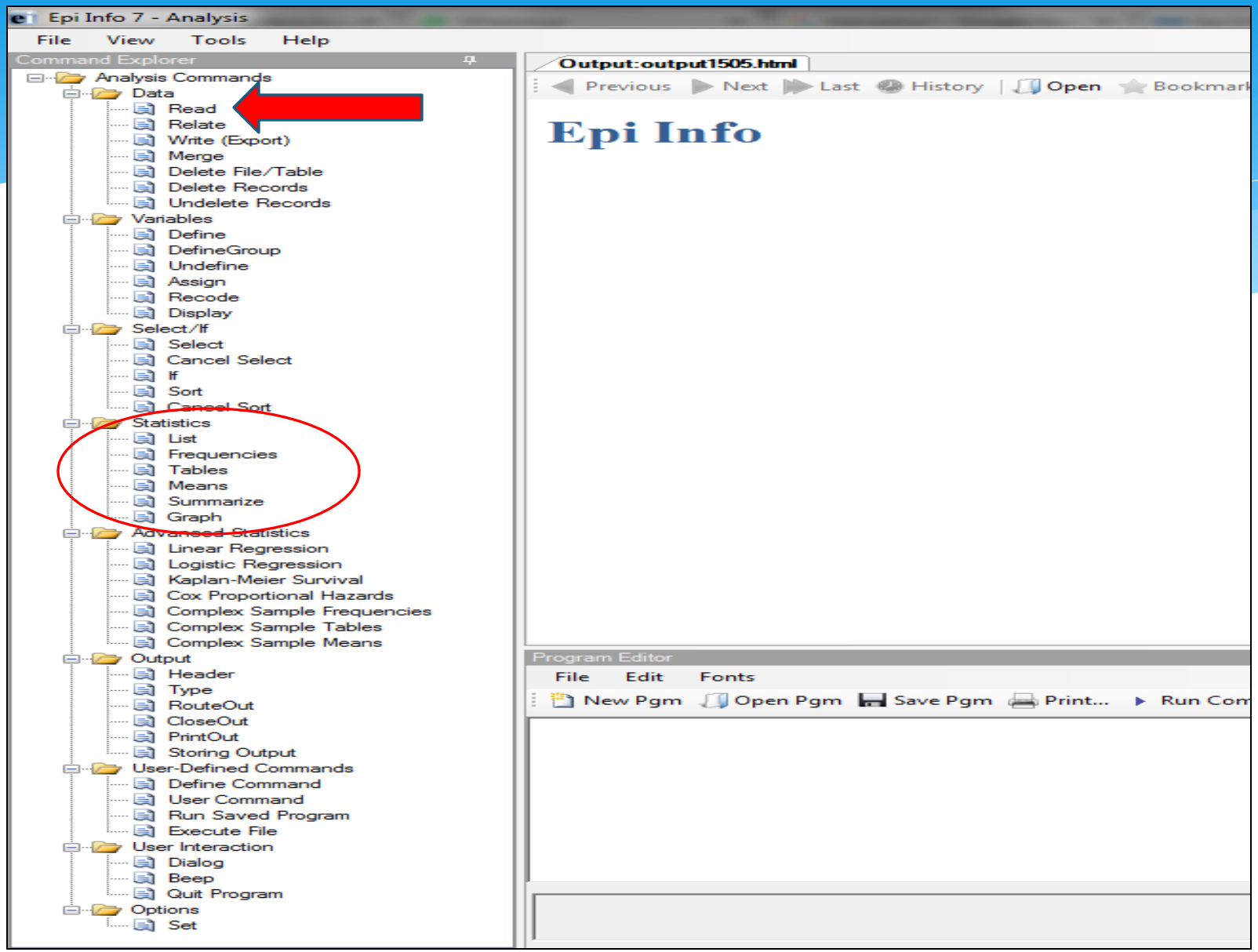


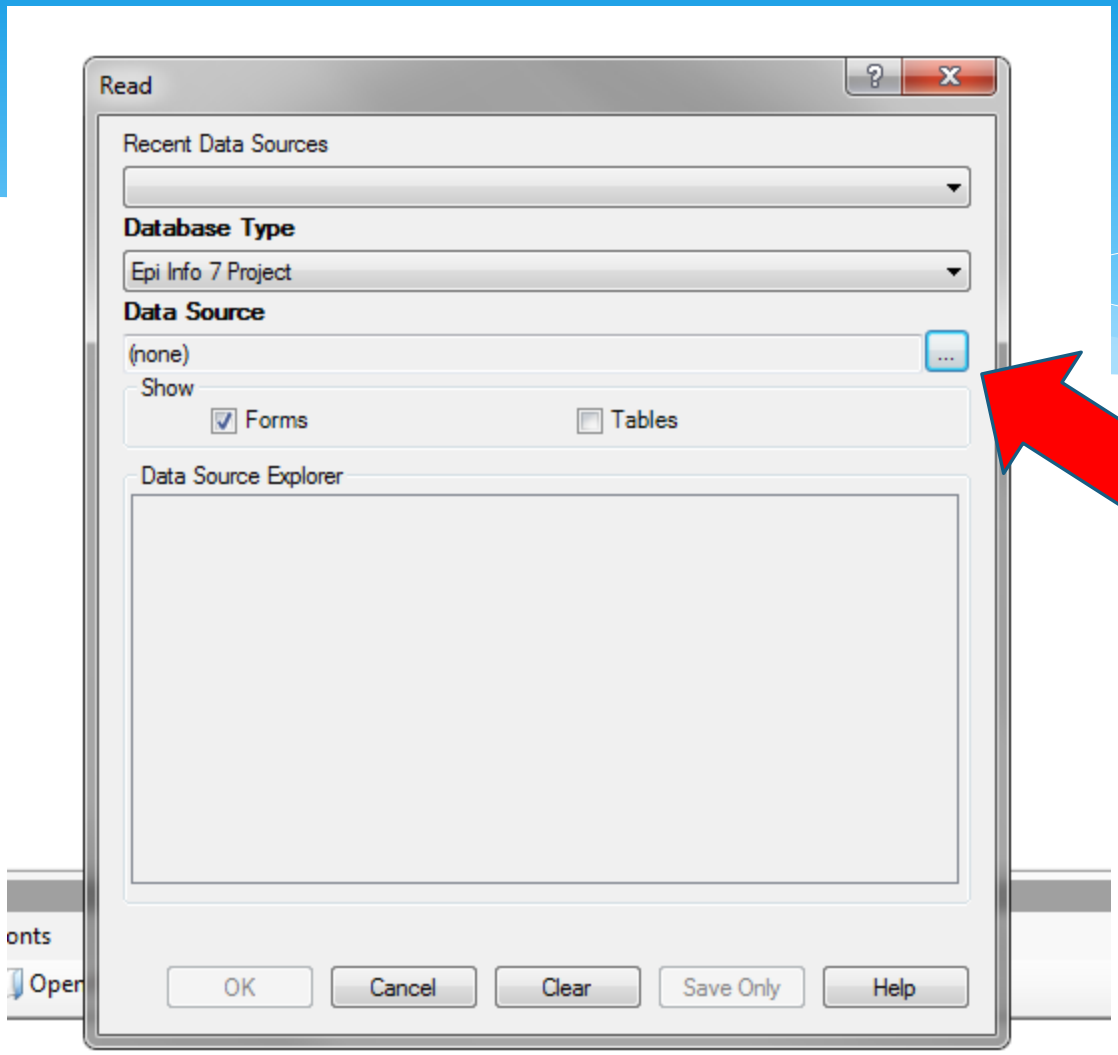


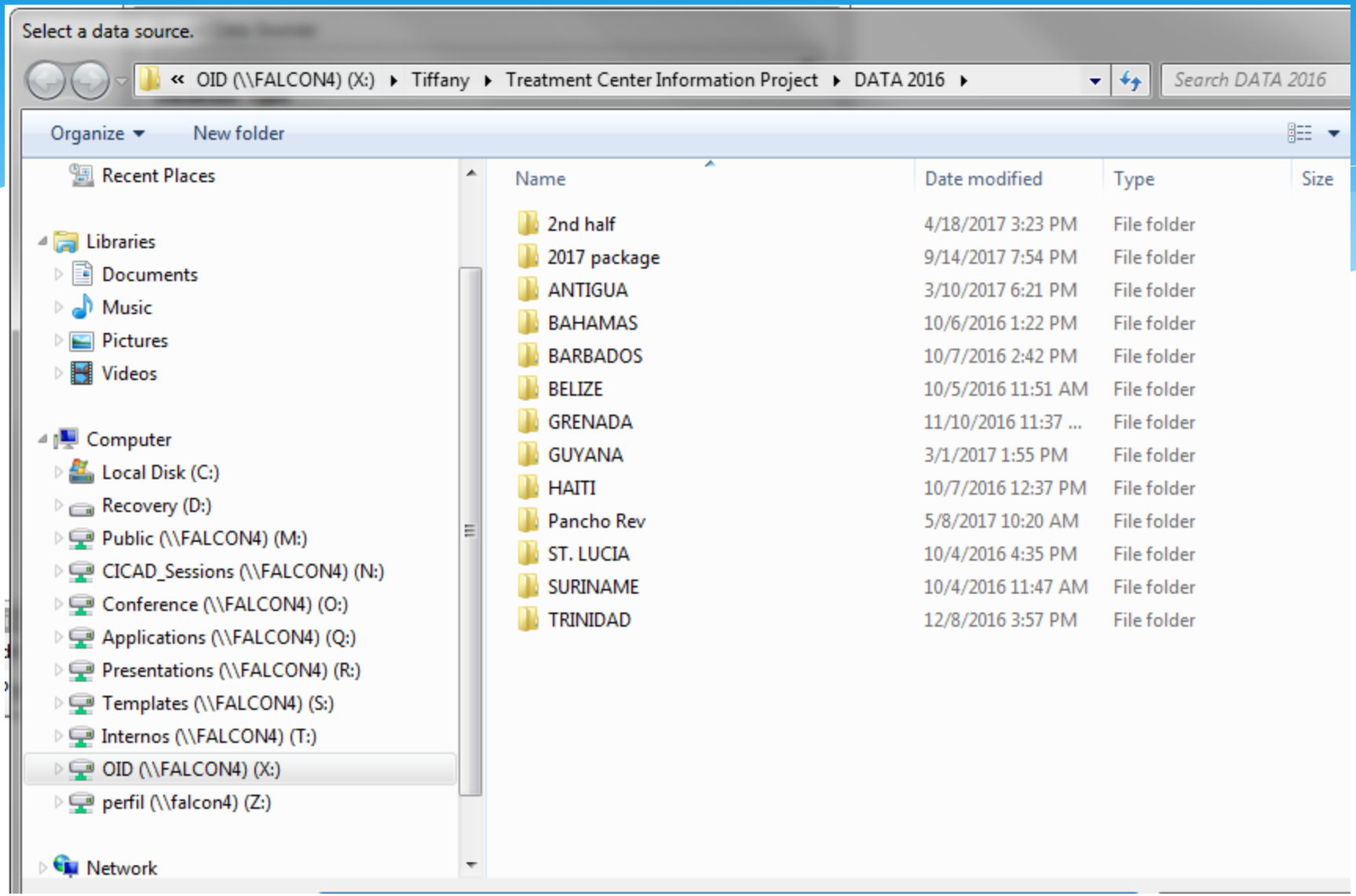
Attach the zipped working file to Country Coordinator and CICAD

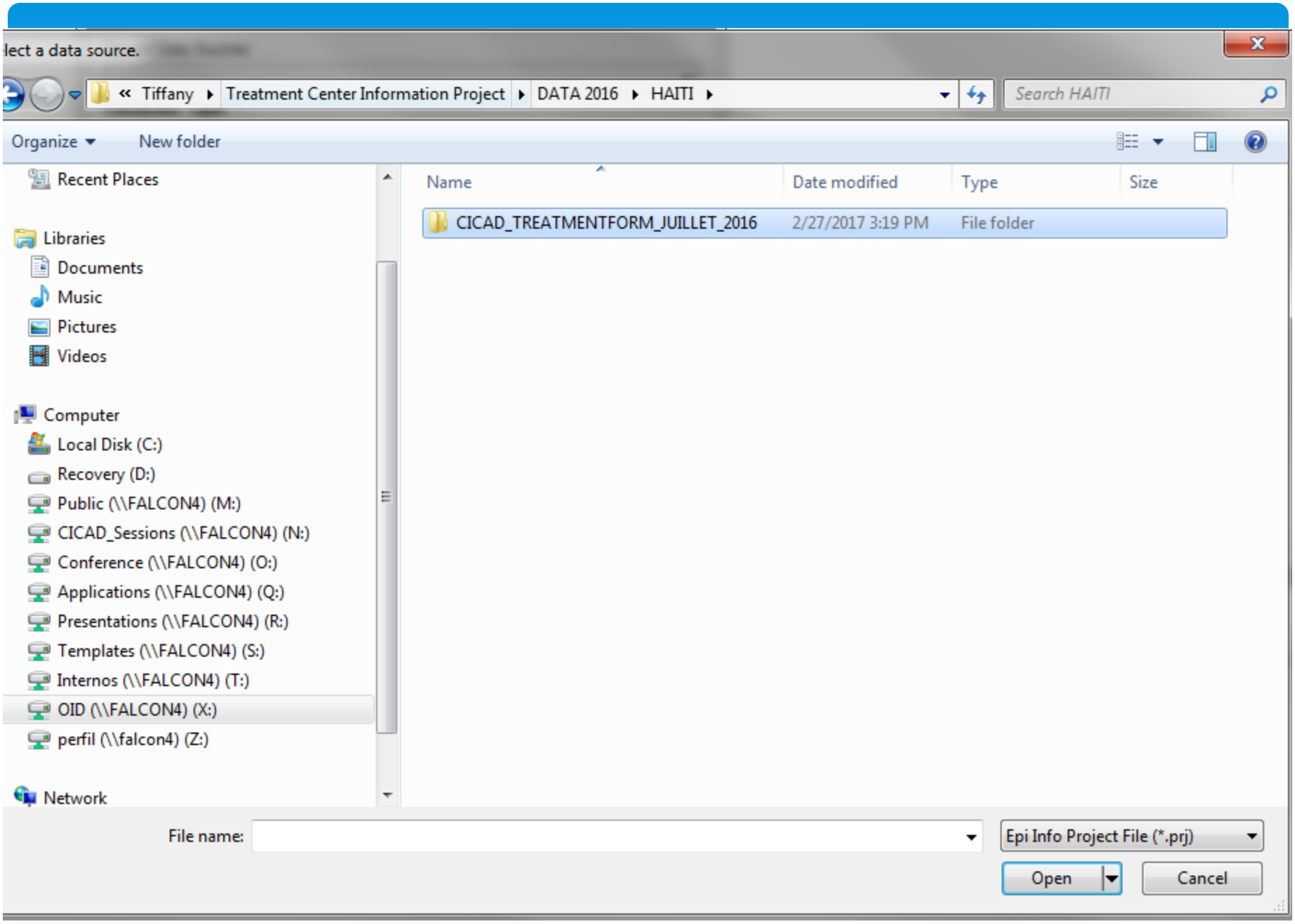
Data Analysis

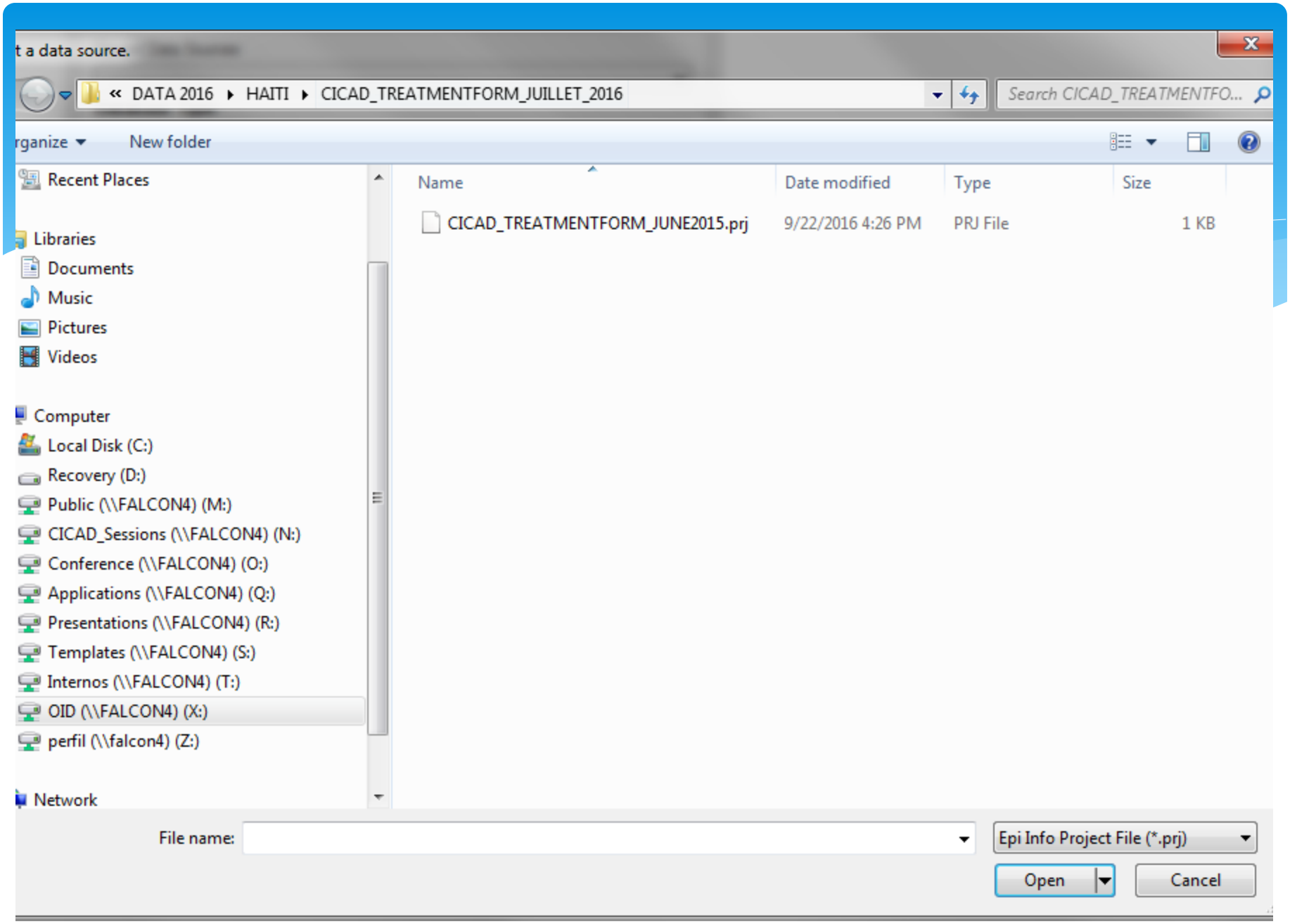

Epi Info 7 - Menu
File
View
Tools
StatCalc
Help
Create Forms
Enter Data
Analyze Data
Classic
Visual Dashboard
Create Maps
Epi Info Website
Exit
EPI INFO™
Ready
en-US
7.1.4.0
CAPS
NUM
INS


Epi Info 7 - Analysis
File View Tools Help
Command Explorer
Analysis Commands
Data
Read
Relate
Write (Export)
Merge
Delete File/Table
Delete Records
Undelete Records
Variables
Define
DefineGroup
Undefine
Assign
Recode
Display
Select/If
Select
Cancel Select
If
Sort
Cancel Sort
Statistics
List
Frequencies
Tables
Means
Summarize
Graph
Advanced Statistics
Linear Regression
Logistic Regression
Kaplan-Meier Survival
Cox Proportional Hazards
Complex Sample Frequencies
Complex Sample Tables
Complex Sample Means
Output
Header
Type
RouteOut
CloseOut
PrintOut
Storing Output
User-Defined Commands
Define Command
User Command
Run Saved Program
Execute File
User Interaction
Dialog
Beep
Quit Program
Options
Set
Output:output1505.html
Previous Next Last History Open Bookmark
Epi Info
Program Editor
File Edit Fonts
New Pgm Open Pgm Save Pgm Print... Run Com

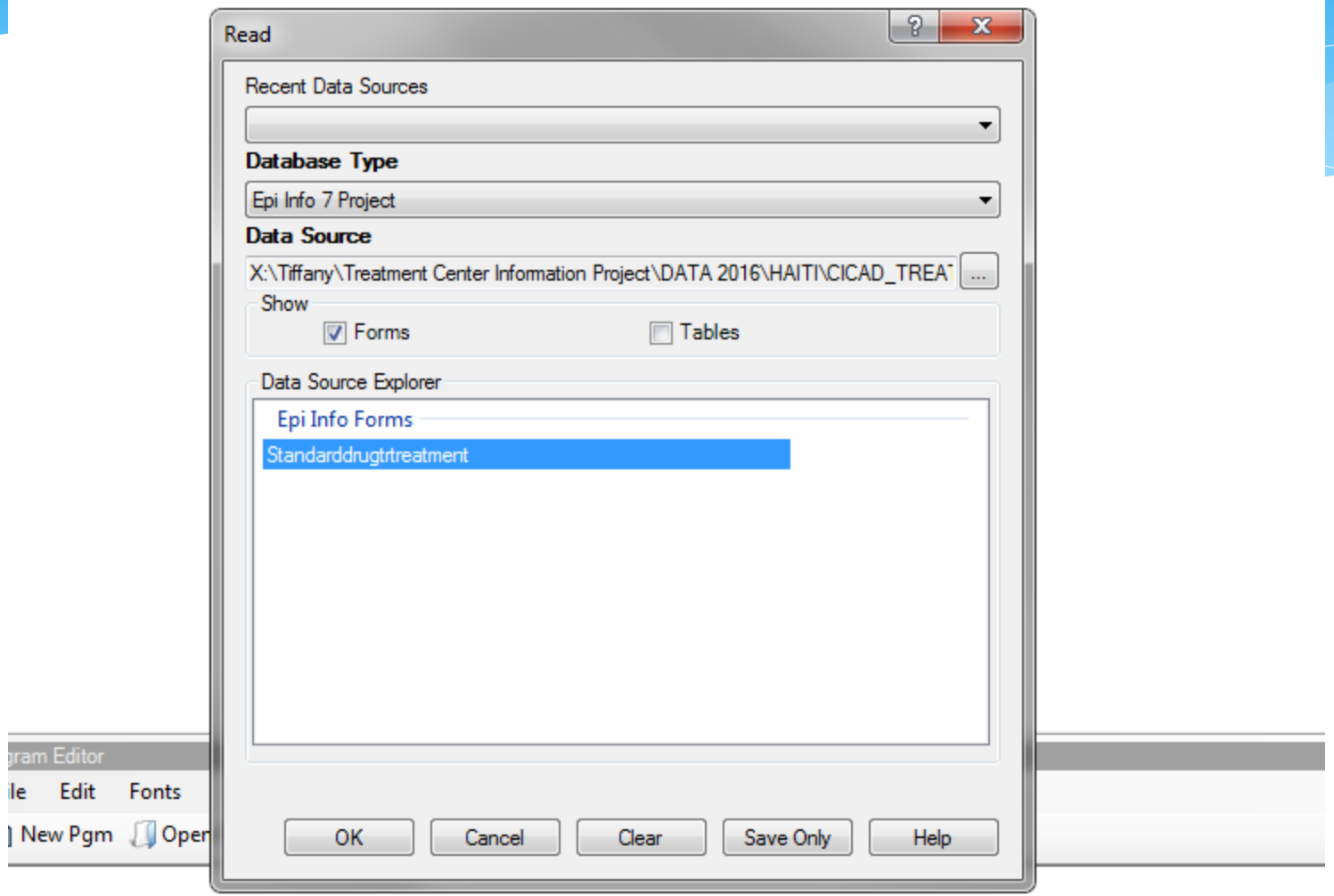

Read
Recent Data Sources
Database Type
Epi Info 7 Project
Data Source
(none)
...
Show
Forms
Tables
Data Source Explorer
OK
Cancel
Clear
Save Only
Help

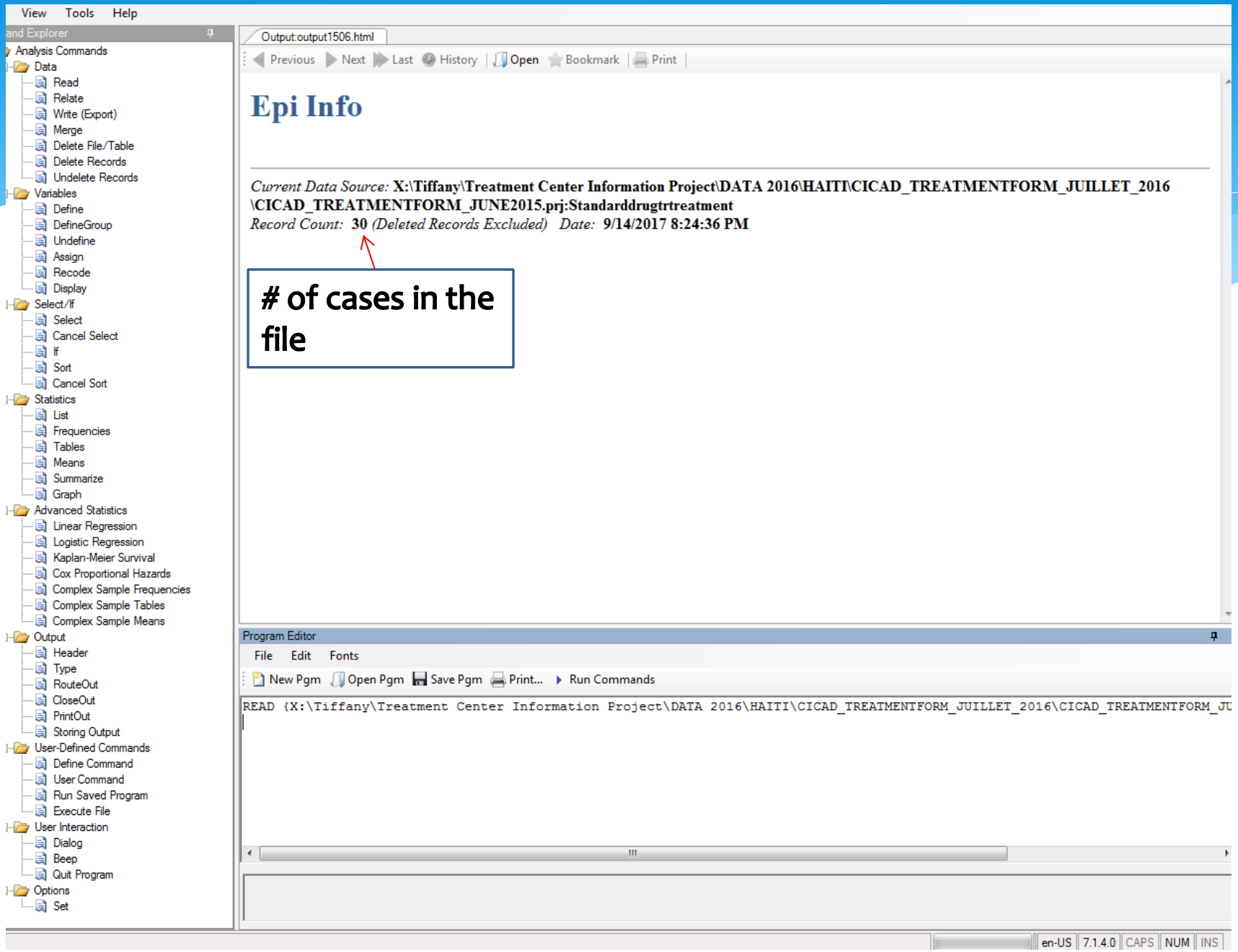

Select a data source.
« OID (\\FALCON4) (X:) ▸ Tiffany ▸ Treatment Center Information Project ▸ DATA 2016 ▸
Search DATA 2016
Organize
New folder
Recent Places
Libraries
Documents
Music
Pictures
Videos
Computer
Local Disk (C:)
Recovery (D:)
Public (\\FALCON4) (M:)
CICAD_Sessions (\\FALCON4) (N:)
Conference (\\FALCON4) (O:)
Applications (\\FALCON4) (Q:)
Presentations (\\FALCON4) (R:)
Templates (\\FALCON4) (S:)
Internos (\\FALCON4) (T:)
OID (\\FALCON4) (X:)
perfil (\\falcon4) (Z:)
Network
Name
Date modified
Type
Size
2nd half 4/18/2017 3:23 PM File folder
2017 package 9/14/2017 7:54 PM File folder
ANTIGUA 3/10/2017 6:21 PM File folder
BAHAMAS 10/6/2016 1:22 PM File folder
BARBADOS 10/7/2016 2:42 PM File folder
BELIZE 10/5/2016 11:51 AM File folder
GRENADA 11/10/2016 11:37 ... File folder
GUYANA 3/1/2017 1:55 PM File folder
HAITI 10/7/2016 12:37 PM File folder
Pancho Rev 5/8/2017 10:20 AM File folder
ST. LUCIA 10/4/2016 4:35 PM File folder
SURINAME 10/4/2016 11:47 AM File folder
TRINIDAD 12/8/2016 3:57 PM File folder

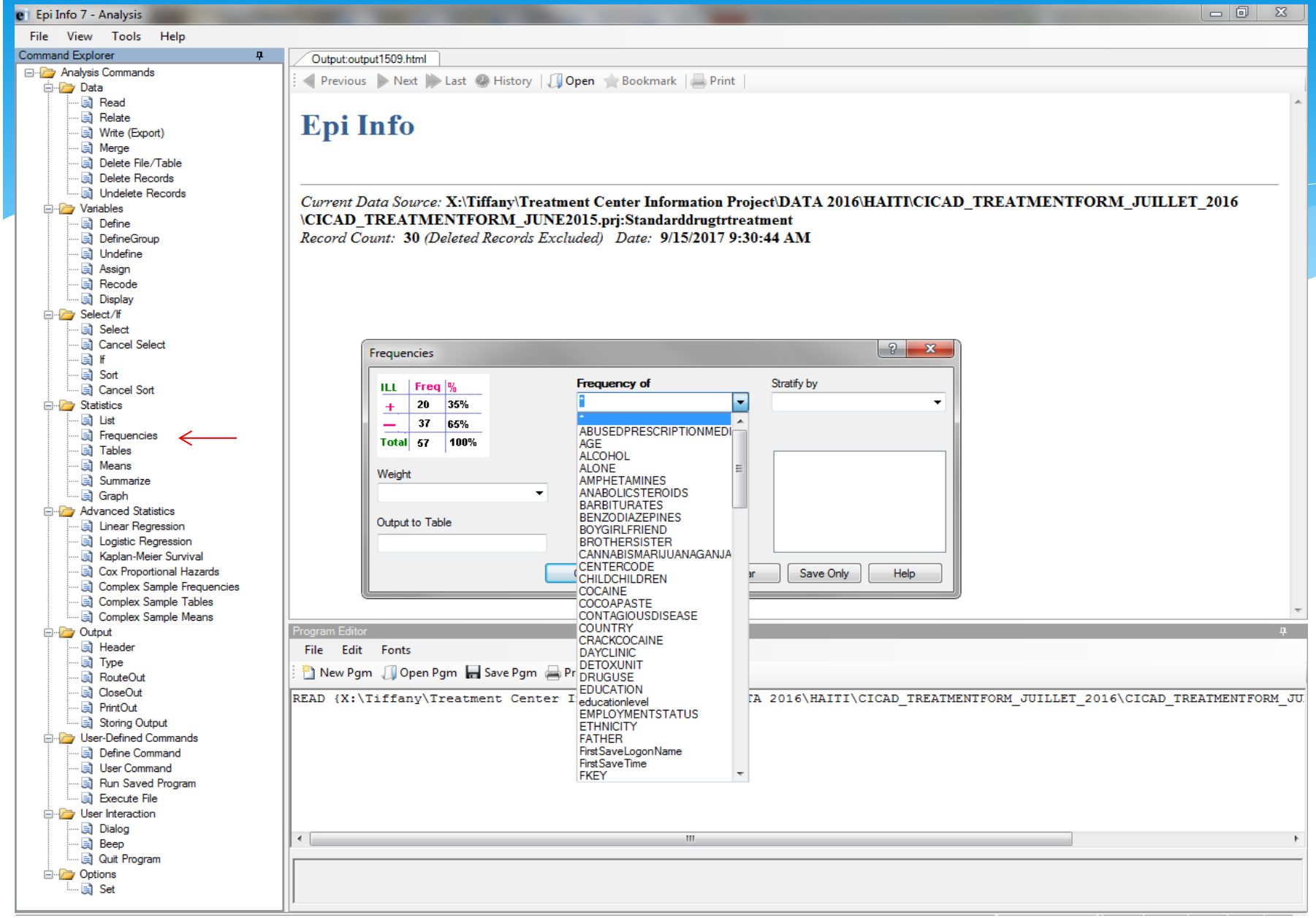

lect a data source.
« Tiffany ▸ Treatment Center Information Project ▸ DATA 2016 ▸ HAITI ▸
Search HAITI
Organize
New folder
Recent Places
Libraries
Documents
Music
Pictures
Videos
Computer
Local Disk (C:)
Recovery (D:)
Public (\\FALCON4) (M:)
CICAD_Sessions (\\FALCON4) (N:)
Conference (\\FALCON4) (O:)
Applications (\\FALCON4) (Q:)
Presentations (\\FALCON4) (R:)
Templates (\\FALCON4) (S:)
Internos (\\FALCON4) (T:)
OID (\\FALCON4) (X:)
perfil (\\falcon4) (Z:)
Network
Name
Date modified
Type
Size
CICAD_TREATMENTFORM_JUILLET_2016
2/27/2017 3:19 PM
File folder
File name:
Epi Info Project File (*.prj)
Open
Cancel


t a data source.
« DATA 2016 ▸ HAITI ▸ CICAD_TREATMENTFORM_JUILLET_2016
Search CICAD_TREATMENTFO...
rganize
New folder
Recent Places
Libraries
Documents
Music
Pictures
Videos
Computer
Local Disk (C:)
Recovery (D:)
Public (\\FALCON4) (M:)
CICAD_Sessions (\\FALCON4) (N:)
Conference (\\FALCON4) (O:)
Applications (\\FALCON4) (Q:)
Presentations (\\FALCON4) (R:)
Templates (\\FALCON4) (S:)
Internos (\\FALCON4) (T:)
OID (\\FALCON4) (X:)
perfil (\\falcon4) (Z:)
Network
Name
Date modified
Type
Size
CICAD_TREATMENTFORM_JUNE2015.prj
9/22/2016 4:26 PM
PRJ File
1 KB
File name:
Epi Info Project File (*.prj)
Open
Cancel

Epi Info


Read
Recent Data Sources
Database Type
Epi Info 7 Project
Data Source
X:\Tiffany\Treatment Center Information Project\DATA 2016\HAITI\CICAD_TREA
...
Show
Forms
Tables
Data Source Explorer
Epi Info Forms
Standarddrugtrtreatment
OK
Cancel
Clear
Save Only
Help
ram Editor
le
Edit
Fonts
New Pgm
Oper


View Tools Help
and Explorer
Analysis Commands
Data
Read
Relate
Write (Export)
Merge
Delete File/Table
Delete Records
Undelete Records
Variables
Define
DefineGroup
Undefine
Assign
Recode
Display
Select/If
Select
Cancel Select
If
Sort
Cancel Sort
Statistics
List
Frequencies
Tables
Means
Summarize
Graph
Advanced Statistics
Linear Regression
Logistic Regression
Kaplan-Meier Survival
Cox Proportional Hazards
Complex Sample Frequencies
Complex Sample Tables
Complex Sample Means
Output
Header
Type
RouteOut
CloseOut
PrintOut
Storing Output
User-Defined Commands
Define Command
User Command
Run Saved Program
Execute File
User Interaction
Dialog
Beep
Quit Program
Options
Set
Output:output1506.html
Previous Next Last History Open Bookmark Print
Epi Info
Current Data Source: X:\Tiffany\Treatment Center Information Project\DATA 2016\HAITI\CICAD_TREATMENTFORM_JUILLET_2016\CICAD_TREATMENTFORM_JUNE2015.prj:Standarddrugtrtreatment
Record Count: 30 (Deleted Records Excluded) Date: 9/14/2017 8:24:36 PM
# of cases in the file
Program Editor
File Edit Fonts
New Pgm Open Pgm Save Pgm Print... Run Commands
READ {X:\Tiffany\Treatment Center Information Project\DATA 2016\HAITI\CICAD_TREATMENTFORM_JUILLET_2016\CICAD_TREATMENTFORM_JU
en-US 7.1.4.0 CAPS NUM INS


Epi Info 7 - Analysis
File View Tools Help
Command Explorer
Analysis Commands
Data
Read
Relate
Write (Export)
Merge
Delete File/Table
Delete Records
Undelete Records
Variables
Define
DefineGroup
Undefine
Assign
Recode
Display
Select/If
Select
Cancel Select
If
Sort
Cancel Sort
Statistics
List
Frequencies
Tables
Means
Summarize
Graph
Advanced Statistics
Linear Regression
Logistic Regression
Kaplan-Meier Survival
Cox Proportional Hazards
Complex Sample Frequencies
Complex Sample Tables
Complex Sample Means
Output
Header
Type
RouteOut
CloseOut
PrintOut
Storing Output
User-Defined Commands
Define Command
User Command
Run Saved Program
Execute File
User Interaction
Dialog
Beep
Quit Program
Options
Set
Output:output1509.html
Previous Next Last History Open Bookmark Print
Epi Info
Current Data Source: X:\Tiffany\Treatment Center Information Project\DATA 2016\HAITI\CICAD_TREATMENTFORM_JUILLET_2016\CICAD_TREATMENTFORM_JUNE2015.prj:Standarddrugtrtreatment
Record Count: 30 (Deleted Records Excluded) Date: 9/15/2017 9:30:44 AM
Frequencies
ILL Freq %
+ 20 35%
— 37 65%
Total 57 100%
Weight
Output to Table
Frequency of
Stratify by
ABUSEDPRESCRIPTIONMEDI
AGE
ALCOHOL
ALONE
AMPHETAMINES
ANABOLICSTEROIDS
BARBITURATES
BENZODIAZEPINES
BOYGIRLFRIEND
BROTHERSISTER
CANNABISMARIJUANAGANJA
CENTERCODE
CHILDCHILDREN
COCAINE
COCOAPASTE
CONTAGIOUSDISEASE
COUNTRY
CRACKCOCAINE
DAYCLINIC
DETOXUNIT
DRUGUSE
EDUCATION
educationlevel
EMPLOYMENTSTATUS
ETHNICITY
FATHER
FirstSaveLogonName
FirstSaveTime
FKEY
Save Only
Help
Program Editor
File Edit Fonts
New Pgm Open Pgm Save Pgm
READ {X:\Tiffany\Treatment Center I
TA 2016\HAITI\CICAD_TREATMENTFORM_JUILLET_2016\CICAD_TREATMENTFORM_JU