

Exploratory Analysis Subgroup

of the Arizona BioSense Work Group



April 28th, 2016

Objectives

- Welcome and Attendance
- BioSense Platform slowness
- HRI project
 - Thanks to those involved in weekly meetings!
 - overview
 - Current tasks
- Arbovirus Consultancy
 - Overview
 - Dates
 - Who is involved
- Questions and Discussions
- Next Meetings

BioSense Slowness



April 28, 2016

Performance Update

Performance of the data3.biosen.se server continues to be slow as we repair a corrupt database. The system is using 100% of its resources to process the backlog of incoming data and perform recovery services.

We will continue to monitor the server performance and will update you when the system status changes.

Servers affected:

- Data3.biosen.se

Services affected:

- BioSense data processing
- phpMyAdmin
- RStudio

Data repositories affected:

- Lockers on data3.biosen.se

- First draft of code 4/29
- Syn def
- Count by day
- Line list (first by fac county, then can add residency)
- Temp trend
- Temp forecast
- Demographic. Etc. tables
- Risk table(s)
-
- Weather stations by Friday 4/29
- ADHS get weather download
-
- Abstraction workgroup – start end of first week of May (Friday 6?)

AZ HRI BioSense Project – Initial Ideas

ADHS runs a program to create graphs and tables

- distributes through the Health Services Portal

Graphs and tables by county

- shared with all

Line lists shared

- with appropriate county

Run once a week?

AZ HRI BioSense Project – Initial Ideas

- ADHS runs a program to create graphs and tables and distributes through the Health Services Portal
- Graphs and tables by county are shared with all
- Line lists shared with appropriate county
- Run once a week?

AZ HRI BioSense Project – Initial Ideas

- Create/modify code to graph visits by county that meet the CSTE HRI syndrome definition (identify those that are deaths)
- Add daily min and max temps to the graph (add forecast and heat index at some point?)
- Create a line list of visits that meet the definition

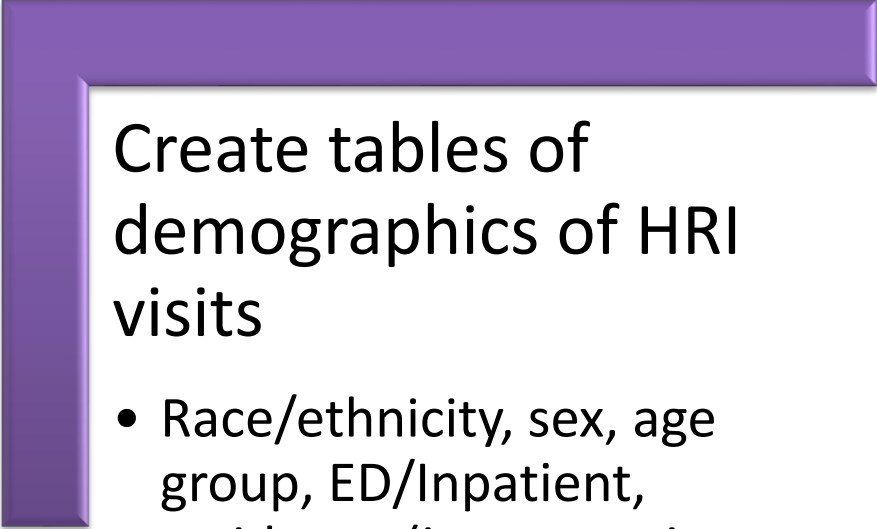
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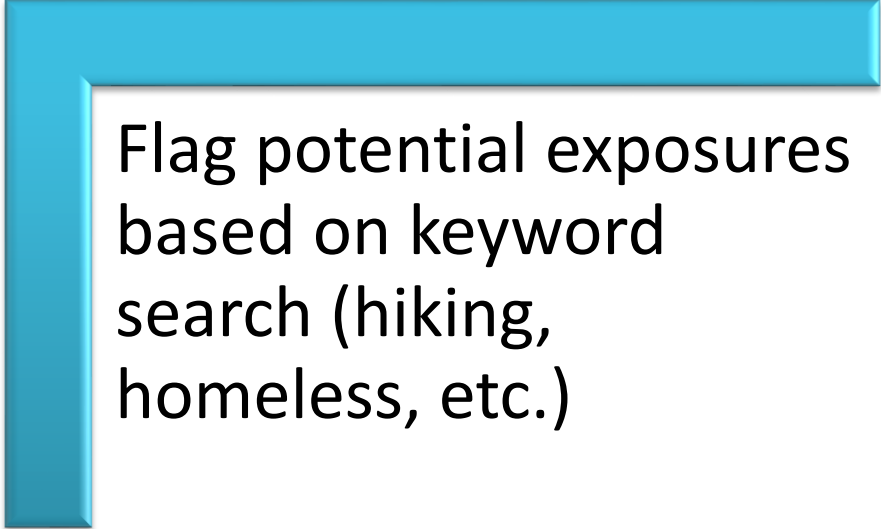
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AZ HRI BioSense Project – Initial Ideas



Create tables of demographics of HRI visits

- Race/ethnicity, sex, age group, ED/Inpatient, residence (in county, in state, out of state -differentiate Canada/Mexico?)



Flag potential exposures based on keyword search (hiking, homeless, etc.)

AZ HRI BioSense Project – Initial Ideas

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AZ HRI BioSense Project – Initial Ideas

Create statewide medical record abstraction form for additional study of exposure, medications, etc.

- Counties can choose to participate based on resources, can investigate a sample of visits
- Using the same form, results can be compiled across the state

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AZ HRI BioSense Project – MR Abstraction

- To join this HRI Project Subgroup
 - Contact:
 - Vjollca Berisha at vjollcaberisha@mail.maricopa.gov
 - Michele Manos at Michele.Manos@pima.gov

AZ HRI BioSense Project – Input Needed

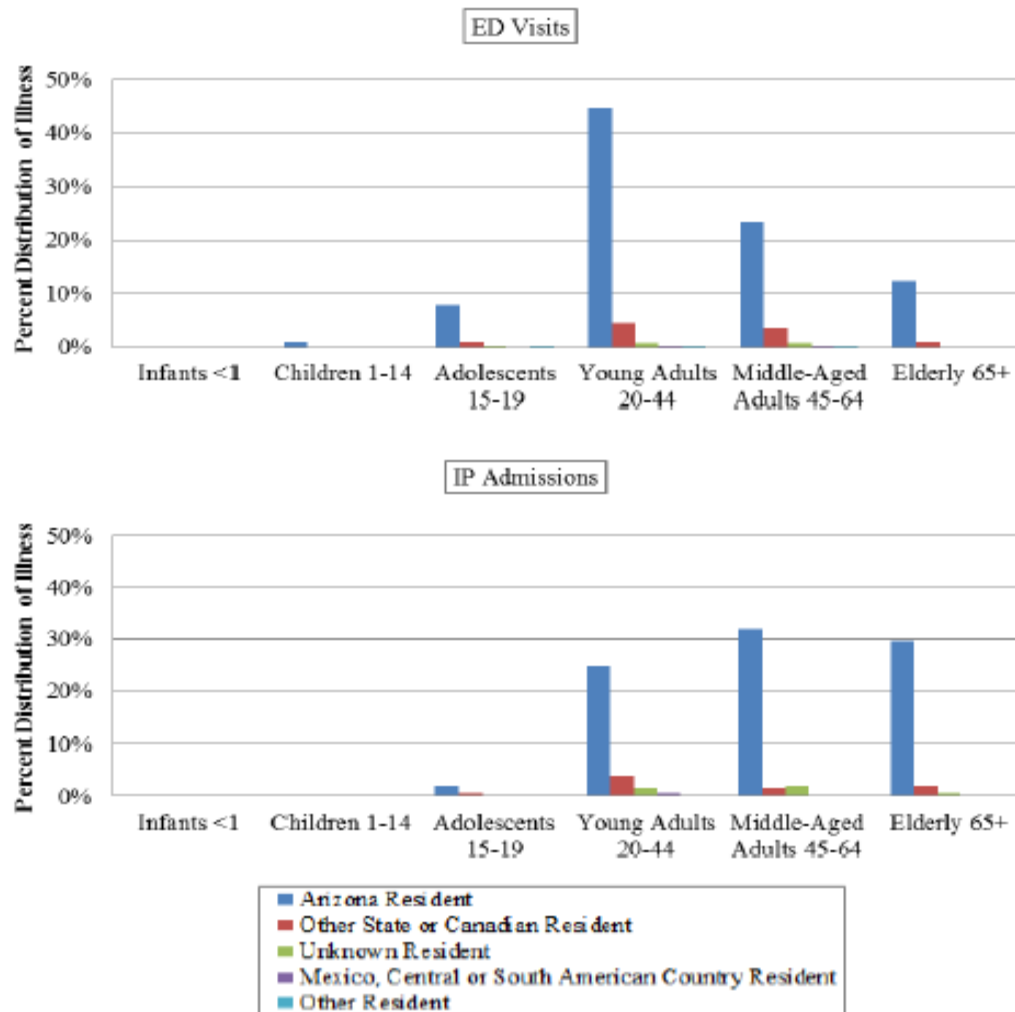
- Counties need to select weather station to use (email with links were sent)
- What demographic tables are wanted?
- Small group to work on MR abstraction form
- Has anyone automated use of daily temp data?

What demographic tables are wanted?

In 2012, illnesses (ED visits and IP admissions) from exposure to excessive natural heat occurred among all age groups except the infant group (<1 years old). Young adult residents of Arizona 20-44 years old accounted for 44.6 percent of heat illness emergency department visits and 24.8 percent of IP admissions. On the other hand, middle aged and elderly Arizona residents accounted for only 35.4 percent of heat illness emergency department visits for exposure to excessive natural heat, but represent 61.4 percent of IP admissions (Figure 11).

Less than one percent of heat illness emergency department visits were from Arizona resident children ages 1-14 years old, but Arizona resident adolescents 15-19 years old accounted for 7.8 percent of the total.

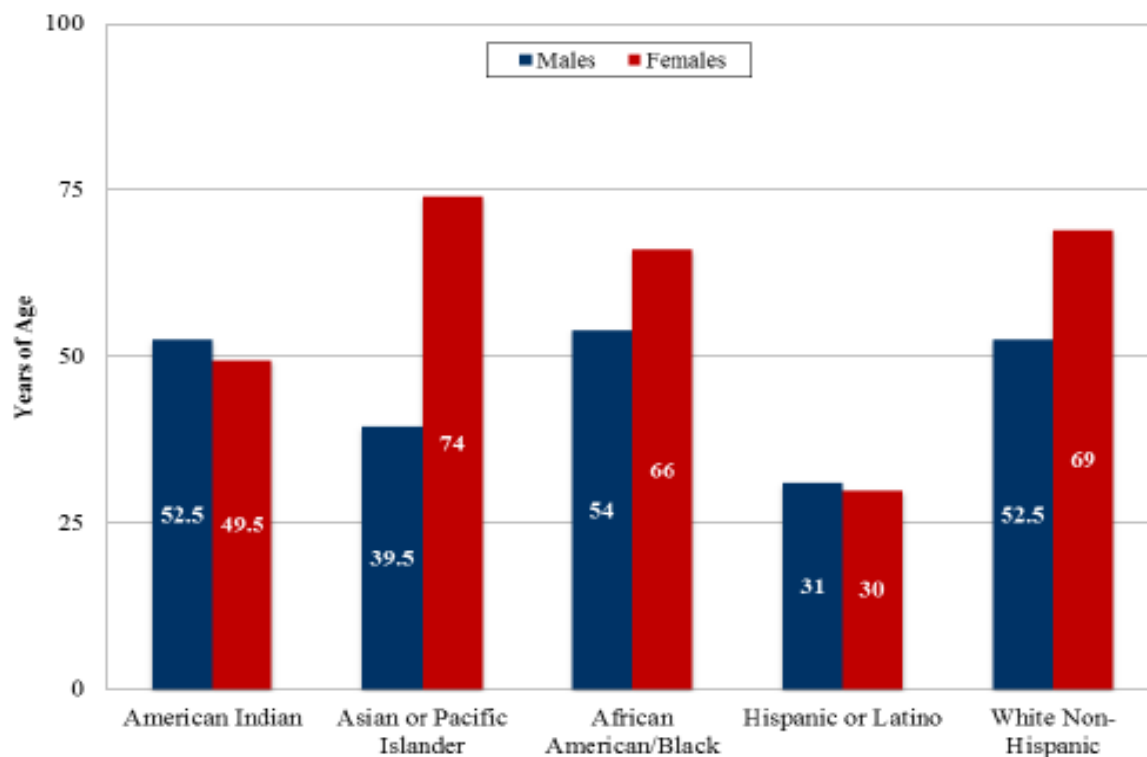
Figure 11
Percent Distribution of Illness From Exposure to Excessive Natural Heat Occurring in Arizona by Age Group and Residence Status, 2012



What demographic tables are wanted?

Figure 7
Median Age at Death From Exposure to Excessive Natural Heat
by Gender and Race/Ethnic Group, 2000 - 2012

Between 2000 and 2012, Asian or Pacific Islander females had the highest median age at death from exposure to excessive natural heat at 74 years, exceeding by 44 years the median age at death for Hispanic or Latino females (Figure 7, Table 6). African American males had the highest (54 years), and Hispanic males had the lowest (31 years), median age at death from exposure to excessive natural heat, respectively.



Check out the ISDS Community Forum to learn more

- <http://communityforum.syndromic.org/group/arizona-syndromic-surveillance-program/forum/topics/heat-related-illness>
 - Use link to find information that is shared/discussed for these meetings
 - Follow this group to get automated emails with updates

COPA Soccer Tournament

- Game Dates June 5, 8 and 25th
 - Surveillance starts early May-July?
- Run Arboviral protocol daily during this time?
 - Fans from Zika affected regions
 - Monitor BioSense Data
- Access to Data
 - Concerns

Upcoming Meetings

Exploratory Analysis Subgroup

- Thurs. May.26
from 1:00 – 2:00



Arizona BioSense Workgroup

- Thurs. June. 07
from 1:00 – 2:00



SyndromicSurveillance@azdhs.gov



Health and Wellness for all Arizonans