

Exploratory Analysis Subgroup

Arizona BioSense Workgroup

April 26, 2018



ARIZONA DEPARTMENT
OF HEALTH SERVICES

Health and Wellness for all Arizonans

Objectives

- Welcome and Attendance
- Recent Updates
 - NACCHO Preparedness Summit
 - ESSENCE Updates
- Discussion
 - Recent publications and use cases
 - Ideas for projects
- Upcoming Meetings

NACCHO Preparedness Summit

- Update from Bill Smith-Maricopa County

ESSENCE Q&A Summary

Topic	Time	Topic	Time
Weather and air quality*	3:45-23:00	Are syndrome definitions “validated”? (Short answer: no)	55:10-57:52
Overlay example and saving queries to myESSENCE	18:00-21:05	Syndrome vs CCDD Categories	57:52-1:00:45
Miles from home*	23:00-30:12	User transfer/migration in ESSENCE (alerts, dashboards, queries, managed tabs)	1:00:45-1:02:10
Explain Query Button	28:00-28:30	Indexed queries and using existing queries	1:02:16-1:05:05
CC and DD Category Explanation (Cubed vs free text queries, additional filters, etc)	30:12-37:12	ILI definition – ICD-9 and ICD-10 codes?	1:05:18-1:06:16
Syndrome free text and subsyndrome free text fields (ex: GI ANDNOT fever)	37:12-44:15	How often are built-in syndromes reviewed?	1:06:16-1:09:30
Query two syndromes at once (syndrome count vs record count, also see “By Visit” explanation below)	40:25-44:15	Include “no history of” vs exclude “history of” in text search	1:09:43-1:16:25
Poison control data availability	44:48-46:33	Intersecting time series*	1:13:58-1:16:25
“By Visit” data source explanation	46:33-49:15	Syndrome and ChiefComplaintSubSyndrome sources	1:16:25-1:16:55
EHR-BioSense interactions/onboarding/meaningful use	49:15-51:00	Multi-year regression algorithm for aberration detection?	1:16:55-1:18:44
Free text query across all free text fields	51:00-54:55	myAlerts vs myESSENCE	1:19:34-1:25:00

<https://www.surveillancerepository.org/essence-q-v20>

New CCDD Categories

- Marijuana v1
- All Traffic Related v1

ESSENCE Weather and Climate Data

Query Wizard

Datasource:

Weather Data

Patient Location (Full Details)

Patient Location (Limited Details by HHS Region)

Patient Location and Visit (Full Details)

Facility Location (Full Details)

Facility Location (Limited Details by HHS Region)

Facility Location and Visit (Full Details)

Chief Complaint Query Validation

DoD Data

Veterans Affairs Data

ASPR EMR Data

Weather Data

Air Quality Data

Recent Publications / Use Cases

- ISDS Research Committee
- Literature Review Sub-Committee
- Syndrome Definition Library
- Vital Signs: Opioids in Emergency Departments

Recent Publications / Use Cases

- PubMed and Google Scholar search
 - “syndromic surveillance” OR “emergency department visits”

Project Ideas

- ✓ Arboviral
- ✓ Heat-related illness
- Next project?

Upcoming Meetings

Exploratory
Analysis
Subgroup

Thursday,
May 24 from
1:00 – 2:00

AZ BioSense
Workgroup

Tuesday,
June 5 from
1:00 – 2:00

THANK YOU

syndromicsurveillance@azdhs.gov | 602-542-6002

azhealth.gov

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