

Exploratory Analysis Subgroup

Arizona BioSense Workgroup

June 28, 2018



ARIZONA DEPARTMENT
OF HEALTH SERVICES

Health and Wellness for all Arizonans

Objectives

- Welcome and Attendance
- Recent Updates
 - ESSENCE
 - Community resources
- Presentation
 - ESSENCE Alerts
 - Varicella Surveillance in ESSENCE
- Discussion
- Upcoming Meetings

ESSENCE Updates

- New CCDD Category
 - SDC Suicide Related v1
 - Heat Related Illness v2
- New Data Details interface
- myESSENCE tab highlighting
- Multiple overlays on one graph

Version 1.21



System Information

Date	Description
01Dec21	Note to Users: You are logged into the NEW Production ESSENCE Application
13Jun18	NEW FUNCTIONALITY available June 6, 2018, includes updated Data Details Interface with frozen column headers, multilevel sorting, column filtering, row selection, and copy options; myESSENCE tab highlighting to clarify tabs you share and tabs shared with you; and overlay graphs that support multiply overlays on same time series graph.

SDC Suicide Related v1

Category	Term	NegTermA	NegTermB	NegTermC	NegTermD
SDC Suicide Related v1	Chief Complaint History, Discharge Diagnosis or Admit Reason Combo TERMS: (^[/]R45.851^,OR,^[/]R45851^,OR,^[/]T14.91^,OR,^[/]T1491^,OR,^[/]X7[1-9]^,OR,^[/]X8[0-3]^,or,^[/]T3[6-9].[X0-9][X0-9]2^,OR,^[/]T3[6-9][X0-9][X0-9]2^,OR,^[/]T[4-5][0-9].[X0-9][X0-9]2^,OR,^[/]T[4-5][0-9][X0-9][X0-9]2^,OR,^[/]T6[0-5].[X0-9][X0-9]2^,OR,^[/]T6[0-5][X0-9][X0-9]2^,OR,^[/]T71.[X0-9][X0-9]2^,OR,^[/]T71[X0-9][X0-9]2^,OR,^[/]T3[6-9].[X0-9]2X[ADS]^,OR,^[/]T3[6-9][X0-9]2X[ADS]^,OR,^[/]T[4-5][0-9].[X0-9]2X[ADS]^,OR,^[/]T[4-5][0-9][X0-9]2X[ADS]^,OR,^[/]T6[0-5].[X0-9]2X[ADS]^,OR,^[/]T6[0-5][X0-9]2X[ADS]^,OR,^[/]T71.[X0-9]2X[ADS]^,OR,^[/]T71[X0-9]2X[ADS]^,OR,^[/]T50.[ABZ][129]2^,OR,^[/]T50[ABZ][129]2^,or,^[/]E95[0-9]^,OR,^[/]6471006^,OR,^[/]82313006^,OR,^[/]425104003^,OR,^[/]55554002^,OR,^[/]304594002^,OR,^[/]287181000^,OR,^[/]891003^,OR,^[/]225444004^,OR,^[/]44301001^,OR,^[/]247650009^,OR,^[/]53846008^,OR,^[/]274228002^,OR,^[/]225457007^,OR,^[/]86849004^,OR,^[/]287182007^,OR,^[/]287190007^,OR,^[/]248061004^,OR,^[/]248062006^,OR,^[/]102911000^,OR,^[/]401206008^,OR,^[/]401229000^,or,^[/]269725004^,or,^[/]287181000^),OR,(,SI,OR,SI[/ ;,]^,OR,^[/ ;,]SI,OR,^[/ ;,]SI[/ ;,]^,OR, (^,^SELF^,AND,(^HARM^,OR,^HURT^,OR, (^,^HANG^,ANDNOT,^CHANG^),OR,^INFLECT^,OR,^KILL^,OR,^LACERA^,OR,^MUTILAT^,OR,^SHOOT^,OR,^STAB^,OR,^IDEAT^,OR,^CUT^),),OR,(^,^WANT^,AND,^DIE ^),OR,(^,^ATTEMPT^,AND,(^,^OVERDOSE^,OR,^[/ ;,]JOD[/ ;,]^,OR,OD,OR,OD[/ ;,]^,OR,^[/ ;,]JOD,)),OR, (^,^LIFE^,AND,^END^),OR,^SUIC^,OR,^SUCI^,OR,(^,^SUSCI^,ANDNOT,^RESUSCI^),OR,^SUISID^,OR,^END IT^,OR, (^,^INTENTIONAL^,ANDNOT,^UNINTENTIONAL^),OR,^IDEATION^),ANDNOT,(^,^END OF LIFE^,OR,^END OF BATTERY LIFE^,OR,^DENIE[SD] SELF HARM^,OR,^NO SELF HARM^,OR,^ACCIDENT^,OR,^HOMICI^,OR,^DENIE[SD] SI[/ ;,]^,OR,^DENIE[SD] SI,OR,^DENIE[SD] ANY SI[/ ;,]^,OR,^DENIE[SD] ANY SI,OR,^DENIE[SD] CURRENT SI[/ ;,]^,OR,^DENIE[SD] CURRENT SI,OR,^NO SI[/ ;,]^,OR,^NO SI,OR,^NOT SI[/ ;,]^,OR,^NOT SI,OR,^DENIE[SD] SUIC^,OR,^DENIE[SD] CURRENT SUIC^,OR,^DENIE[SD] ANY SUIC^,OR,^DENIE[SD] S.H^,OR,^RT SI[/ ;,]^,OR,^RT SI,OR,^RIGHT SI[/ ;,]^,OR,^RIGHT SI,OR,^NOT SUIC^),)				

Heat Related Illness v2

Category	
Heat Related Illness v2	Heat Related Illness Inclusions and Exclusions(Chief Complaint History, Admit Reason Combo, Discharge Diagnosis): (^[/]992[0-9];^,or,[/]992.[0-9];^,OR,[/]E900;^,OR,[/]E900.[09];^,OR,[/]E900[09];^,OR,[/]T67^,OR,[/]X30.X^,OR,[/]X30X^),OR,((^HEAT,OR,^HEAT[-\.;]^),OR,(^EXCESSIVE^,OR,^EXHAUST^,OR,^EXPOS^,OR,^FATIGUE^,OR,^CRAMP^,OR,^STRESS^,OR,^IN CAR^,OR,^OUTSIDE^,OR,^PROSTRATION^)),),ANDNOT,(^ALLE^,OR,^LIMB^,OR,^ARM^,OR,^SHOULDER^,OR,^ELBOW^,OR,^WRIST^,OR,^HAND^,OR,^LEG^,OR,^HIP^,OR,^GROIN^,OR,^THIGH^,OR,^KNEE^,OR,^ANKLE^,OR,^FOOT^,OR,^IBUPROFEN^,OR,^IBUPROPHEN^,OR,^ALIEVE^,OR,^MOTRIN^,OR,^TYLENOL^,OR,^INJUR^,OR,^TRAUMA^,OR,((^HEAT,OR,^HEAT[-\.;]^),AND,(^ICE^,OR,^PAD^,OR,^LUMBAGO^,OR,^RELIEF^,OR,^RESOLVE^,OR,^RELIEVE^,OR,^RELEIVE^,OR,^DENTAL^,OR,(^HOT^,AND,(^COLD^,OR,^COFF^,OR,^SHOWER^)),),OR,(^CONDITION^,OR,^HEATACHE^,OR,^HEAT ATTACK^,OR,^HEAT BEAT^,OR,^HEATBEAT^,OR,^HEAT FAILURE^,OR,^HEAT BURN^,OR,^HEATBURN^,OR,^HEAT FLUTTER^,OR,^HEAT^,OR,^PALPITATION^,OR,^CHEAT^,OR,^WHEAT^,OR,^HEATER^,OR,^HEATHER^,OR,^HEATING^,OR,^HOTEL^,OR,^LITHOTR^,OR,^METHOTR^,OR,^PHOTO^,OR,^C^,OR,^BURN^,AND,^MOUTH^),OR,^DISTRESS^,OR,^FEVER^,OR,^GETS HOT^,OR,^HEAT FLASH^,OR,^HOT FLASH^,OR,^HIVES^,OR,^HOT TUB^,OR,^NO HEAT^,OR,^C

Data Details Table Configuration

Date	Category_flat	SubCategory_flat	Patient...
			e
22Jun18	;Resp;	;Cough;	E
22Jun18	;GI;	;Vomiting;NVD;	E
22Jun18	;GI;	;AbdominalPain;	E
22Jun18	;Neuro;	;AlteredMentalStatus;	E

ESSENCE Alerts

Create myAlert

Name of myAlert:

Query:

Enabled: ☒

myAlert being created for: ☐ Records of Interest ☒ Detection

Stratifications:
Hospital
Site
Patient Location
Syndrome

☒ Detector:

Threshold:

☐ Minimum Count:

☐ alerts in the past days

☐ consecutive alerts

Save For:

☐	First Name	Last Name	Organization
☐	Folorunso	Akintan	Stanislaus County H...
☐	Brenna	Garrett	Arizona Department...
☐	John	Abplanalp	Thurston County Pu...
☐	Angel	Abraham	Winnebago Public HD
☐	Akanksha	Acharya	UDOH

Cancel Save myAlert

ESSENCE Alerts

- NSSP: Knowledge Repository
 - ESSENCE Training: Sharing Queries 18:21 – 21:34
- myAlerts constantly watches your data
- Creates an alert based on a saved query

ESSENCE Alerts

- Records of Interest
 - Any visit matching the query will trigger an alert
- Detection
 - Can specify detection levels
 - Can add stratification options
- “Manage myAlerts Definitions” on myAlerts page to change the myAlert definition
 - Note: Does not change query, just how the alert is set up

Community Resources

- CSTE Conference Recap (Jun 10 – 14)
- ADHS Literature Search
 - https://www.healthsurveillance.org/members/group_content_view.asp?group=190914&id=737555
- Public Health Reports – Syndromic Surveillance supplement:
 - http://journals.sagepub.com/toc/phrg/132/1_suppl
- Online Journal of Public Health Informatics:
 - <http://ojphi.org/ojs/index.php/ojphi/issue/view/593/showToc>

Varicella Surveillance in ESSENCE

- Susan and Xandy from ADHS
- Questions?

Upcoming AZ Syndromic Meetings

Exploratory
Analysis
Subgroup

Thursday, July
19 from 1:00
– 2:00

Arizona
BioSense
Workgroup

Tuesday,
August 7 from
1:00 – 2:00

Upcoming Meetings

- [AZID July 24-26,2018](#)
- [NACCHO and CDC PHI Conference August 20-23, 2018](#)
- [Call for Abstracts for ISDS 2019 Conference](#)

THANK YOU

syndromicsurveillance@azdhs.gov | 602-542-6002

azhealth.gov

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 facebook.com/azdhs



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