



Syndromic Surveillance Dashboards

The EPIC **Syndromic Surveillance Dashboard** is a powerful tool designed to monitor various pathogens, diagnoses, infections, and chief complaints that are captured in the EPIC Electronic Medical Record (EMR) system. With its user-friendly interface, this dashboard provides real-time syndromic surveillance data, enabling healthcare professionals such as Enterprise Physicians, Nursing Leadership, and ancillary positions to effectively monitor public health.

There are **two** dashboards and **one** drilldown view that can be accessed from the **Analytics Catalog.** Favorite these so they are easily accessible in the future:

- Syndromic Surveillance Overview Dashboard
- Syndromic Surveillance Exploration Dashboard
- Syndromic Surveillance Drilldown

Syndromic Surveillance Overview Dashboard

The **Syndromic Surveillance Overview** dashboard is for high level review of the top **ten syndromes** by **four** different calculations in a selected date range.

- 1. From the **Syndromic Surveillance Overview** dashboard, select the **date range** to be reviewed. Once selected, Epic will save this information for the next time the dashboard is accessed.
- 2. The **Elevated Syndromes By** banner contains the number of syndromes that have met the individual thresholds per category.

Syndromic Surveillance C	Overview -								1 Aug 2023 - Oct	t 2023 🔹 🕨 🌉	9 • • 0
Elevated Syndromes By	2										
Percent Above Average Threshold 20		:	Occurrences Above Average			Z-Score Threshold 1.5			Normalized Score Threshold 80		
1	4		10				9		13	3	
Top 10 Syndromes by Pere	cent Above Average	e				Top 10 Syndromes by Z-S	Score				
Syndrome	Last 30 Days	% Above Average	Aug 2023 through Sep 2023	Sep 2023	Oct 2023	The z-score is the number of standard Syndrome	deviations above average. Last 30 Days	Z-Score	Aug 2023 through Sep 2023	Sep 2023	Oct 2023
RSV	69	+667 %		8	69	RSV	69	60.00		8	69
HMPV	6	+200 %		1	6	Pneumonia	218	7.55		171	214
Pertussis	1	+100 %		0	1	PIV	108	4.63		79 🎵	106
Mycoplasma	1	+100 %		0	1	Fever - Chief Complaint	483	4.27		416 🎵	476
Nasal Concestion - Chief	A A 22 A A	7,4			A2A.A.	HMBV IN E. IC IS		4.00	******		·, · ·
Top 10 Syndromes by Occ	ہ urrences Above Av		Top 10 Syndromes by Normalized Score Normalized score assigns each syndrome a score from 0 to 100 based on how the current count compares to the historical minimum and maximum.								
Syndrome	Last 30 Days	+/- Above Average	Aug 2023 through Sep 2023	Sep 2023	Oct 2023	Syndrome	Last 30 Days	Normalized Score	Aug 2023 through Sep 2023	Sep 2023	Oct 2023
Rhino/Enterovirus	1,079	+411		978 🛪	1,036	Rhino/Enterovirus	1,079	100		978 🎵	1,036
Cough - Chief Complaint	461	+168		388 🎵	439	RSV	69	100		8	69
Nasal Congestion - Chief Complaint	221	+92		167 🎵	210	PIV	108	100		79 7	106
Fever - Chief Complaint	483	+87		416 🎵	476		119	100			

Bugsy: Syndromic Surveillance Dashboards **TCOE Created:** 10.30.2023 CBD*INI **AC Approved:** 11.06.2023 WJ **TCOE Revised**: 11.06.2023 CBD*SEH

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a. **Percent Above Average** – count of syndromes, <u>over the selected date range</u>, in which the percent change between the most recent interval and the average exceeds the entered threshold value.



b. **Occurrences Above Average** – count of syndromes, <u>over a selected date range</u>, in which the difference between the most recent interval and the average exceeds the entered threshold value.



c. **Z-Score** – the count of syndromes, <u>over a selected date range</u>, for which the Z-Score exceeds the entered threshold value. The Z-Score is the number of standard deviations above average.



d. **Normalized Score** – a value from 0 to 100 based on how the current count for the syndrome compares to its historical minimum and maximum within the <u>dashboard date range</u>.



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Syndromic Surveillance Exploration Dashboard

The **Syndromic Surveillance Exploration** dashboard is used to analyze/explore all, grouped, or specific syndromes in <u>selected date ranges</u>.

- 1. **Click** on the **number** to view additional information about each of the syndromes on the Syndromic Surveillance Exploration Dashboard.
 - a. **Groupers** select a group of syndromes to analyze.
 - b. **Syndromes** select specific syndromes to analyze.
 - c. Only Hospital Onset select to view patients who met logic for syndrome on third day of admission.
 - d. Filter By, Filter Type, Threshold used to analyze column data on dashboard.
 - e. Compare to Prior Year used to analyze current syndromic data with previous year.
- 2. Utilize the filters for additional exploration:
- 3. Click on the **individual syndrome** to drill down on a specific syndrome and view data on the **Syndromic Surveillance Drilldown** dashboard.

Syndromic Surveillance Overview - Aug 2023 - Oct 2023 - >							
Elevated Syndromes By							
Percent Above Average Threshold 20	Occurrences Above Average	Z-Score Threshold 1.5	Normalized Score Threshold 80				
14	10	9	13				

← Syndromic Surveillance Exploration	Grouper	b Syndromes Not set	C Only Hospital Onset	No Yes	Filter By Percent Above Aver.		Aug 2023 - Oct 24	023 - 🕨 🎞 🕵 🗄
Filter Type Top Syndromes At Least Less Than)	Threshold 20	Compare to Prior Year No	Yes					
Explore Syndromes		e						
Syndrome	Last 30 Days	% Above Average	+/- Above Average	Z-Score	Normalized Score A	Aug 2023 three	Sep 2023	Oct 2023
Adenovirus	d 119 🛪	+65 %	+47	3.52	100		58	117
Cough - Chief Complaint	461 🎵	+57 %	+168	1.76	100		388 🎵	439
Fever - Chief Complaint	483 🎵	+22 %	+87	4.27	100		416 🎵	476
HMPV	6 🎵	+200 %	+4	4.00	100		1	6
Influenza	5 🎵	+25 %	+1	0.33	67		1	5
Mycoplasma	1 🎵	+100 %	+0.5	1.00	100		0	1
Nasal Congestion - Chief Complaint	221 🎵	+71 %	+92	2.42	100		167 🎵	210
Pertussis	1 🎵	+100 %	+0.5	1.00	100		0	1
PIV	108 🎵	+52 %	+37	4.63	100		79 🎵	106
Pneumonia	218 🎵	+23 %	+41	7.55	100		171	214
Rhino/Enterovirus	1,079 🎵	+62 %	+411	1.33	100		978 🎵	1,036
RSV	69 🎵	+667 %	+60	60.00	100		8	69
SOB - Chief Complaint	370 🎵	+22 %	+66	3.47	100		323 🎵	359
Sore Throat - Chief Complaint	189 🗖	+22 %	+34	1.25	100		182 🎵	184



Syndromic Surveillance Drilldown

The **Syndromic Surveillance Drilldown** is used to analyze data for a specific syndrome over a <u>selected date range</u>. This drilldown contains the same filters as seen on the Exploration Dashboard.

This Surveillance Drilldown contains the following components:

- 1. **Overview** last 30 days and the four calculation scores for the selected date range.
- 2. Trends rolling average or control chart display mode.
- 3. **Postal Codes** shows top 15 postal codes with most patients. Click the hyperlinks to patients in the postal codes.
- 4. **Departments** shows top 15 <u>departments / clinics</u> with the most patients. Click the hyperlinks to patients in the departments or clinics.
- Patients shows most recent 25 patients and link to reporting workbench for additional drilldown. Click the Reporting Workbench Report link and utilize the filters to analyze specific patient data. These include: admissions, race, age, postal code, sex, alive/deceased status, etc.
- 🗧 Syndromic Surveillance Drilldown Adenovirus 👻 Locations Not set 🥒 Departments Not set 🥒 Postal Codes Not set 🌶 Only Hospital Onset (No Yes) Compare to Prior Year (No Yes) Overview 1 135 Last 30 Days +41 % Above Average 0.45 Z-Score 59 Normalized Score +39 +/- Above Average Trends Display Mode Rolling Average Control Chart 300 200 100 Jan 2023 Jan 2022 Jul 2022 Aug 2022 Oct 2022 Apr 2023 Jun 2023 Jul 2023 Oct 2023 Apr 2022 May 2022 Jun 2022 Sep 2022 Nov 2022 Dec 2022 Feb 2023 Mar 2023 May 2023 Aug 2023 Sep 2023 Nov 2023 Mar 2022 🗹 🛑 Monthy Count 🛛 —— 3-Month Average Postal Codes 3 Departments 4 through Oct 2023 through Oct 2023 Oct 2023 Last 30 Days 🔻 Sep 2023 Oct 2023 Postal Code Nov 2023 Nov 2023 City ^ PEDIATRIC EMERGENCY DEPARTMENT UH 50 🛪 19 48 🗖 2 ____ 13057 EAST SYRACUSE 4 7 4 7 0 *No Department 49 🎵 29 46 🎵 5 13202 SYRACUSE 4 7 ____ 3 7 4 7 0 ____ PEDIATRICS AFTER HOURS COMMUNITY CAMPUS 11 7 12 7 0 ______ SYRACUSE 13206 4 7 3 4 🎵 0 EMERGENCY DEPARTMENT UH 9 🛪 _____ 1 9 🛪 13207 SYRACUSE 4 7 ____ 3 🛪 5 7 0 EMERGENCY DEPARTMENT COMMUNITY CAMPUS 0 6 7 6 7 _____ 13210 SYRACUSE 2 🎵 0 4 7 4 🛪 03N PERIOP UH 3 7 2 7 1 13021 AUBURN 3 🛪 _____ 0 5 🛪 0 11E PEDIATRIC SURGERY UH 2 🛪 2 7 0 3 🛪 _____ 13078 JAMESVILLE 1 7 2 🎵 1 12E1 PEDIATRICS GENERAL LIH 0 2 🏞 🔨 2 🎵 ~ 13104 MANUUS 3 🛪 _____ 2 7 1 12E3 PEDIATRICS GENERAL LIH 2 3 2 7 0 tes with the most pati na the 15 de 5 ent 25 neti
- a. From Reporting Workbench, click the Explore tab to view in Slicer Dicer.

Adenovirus drilldown from 10/01/23 to 11/02/23 [75803162] as of Fri 11/3/2023 9:18 AM 🧹						ľ	" ? I	2 X
늘 Chart R		i≡ Detail List	t - Original					
Detail Li	st Explore a							
▼ <u>F</u> ilter						Re-run Report	Select	All
Date	Patient	MRN	Patient Age Department	City		ow Added	R	ł