

Public Health Preparedness and Situational Awareness Report: #2024:16 Report covering MMWR Week #16: April 14, 2024 – April 20, 2024

Report Date: April 26, 2024

The weekly Public Health Preparedness and Situational Awareness (PHPSA) Report provides a snapshot of disease throughout Maryland. This report looks for different types of illnesses or disease clusters which may warn of a larger public health issue, including the potential for a bioterrorism event.

Data is gathered from Maryland's Emergency Departments using the Electronic Surveillance System for the Early Notification of Community-based Epidemics (ESSENCE). Additional data is compiled from the Centers for Disease Control and Prevention's (CDC's) Health Alert Network, the Maryland Department of Health Prevention and Health Promotion Administration, the Maryland Institute for Emergency Medical Services Systems (MIEMSS), the World Health Organization, the National Electronic Disease Surveillance System, and the Program for Monitoring Emerging Diseases (ProMED).

CURRENT HOMELAND SECURITY THREAT LEVELSNational:No Active AlertsMaryland:Normal (MDEM status)

SYNDROMIC SURVEILLANCE REPORTS

ESSENCE (Electronic Surveillance System for the Early Notification of Community-based Epidemics): Graphical representation is provided for all syndromes (excluding the "Other" category; see Appendix 1) by Health and Medical Regions (See Appendix 2). Emergency Department chief complaint data is presented as rates per 100,000 residents using data from the 2020 census.

Electronic Surveillance System for the Early Notification of Community-Based Epidemics (ESSENCE). Baltimore, MD: Maryland Department of Health; 2024.

Weekly Outbreak Summary Report 2024-16 (April 14, 2024 – April 20, 2024)

Overview:

There were 16 total outbreaks reported to MDH during MMWR Week 16.

By Type & Region:

- <u>1 Rash outbreak</u>
 - o 1 outbreak of HAND FOOT AND MOUTH in a School (BMA)
- <u>15 Respiratory illness outbreaks</u>
 - 4 outbreaks of COVID-19 in an Assisted Living Facility (3 BMA, 1 NCR)
 - 6 outbreaks of COVID-19 in Nursing Homes (3 BMA, 2 NCR, 1 Western)
 - 1 outbreak of COVID-19 in a Shelter (NCR)
 - 2 outbreaks of COVID-19 in a Daycare (2 BMA)
 - 1 outbreak of INFLUENZA in a Daycare (BMA)
 - 1 outbreak of PERTUSSIS in a School (BMA)

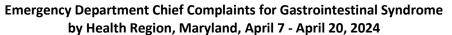
BMA – Baltimore Metropolitan Area

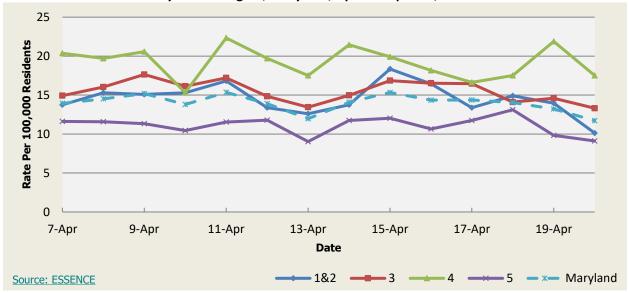
NCR – National Capital Region

Gastrointestinal Syndrome

	Gastrointestinal Syndrome Baseline Data January 1, 2020 - Present								
Health Region	1&2	1&2 3 4 5 Maryland							
Mean Rate*	12.76	13.57 16.57 9.79 12.2							
Median Rate*	12.80	12.80 13.69 16.64 10.07 12.48							

* Per 100,000 Residents

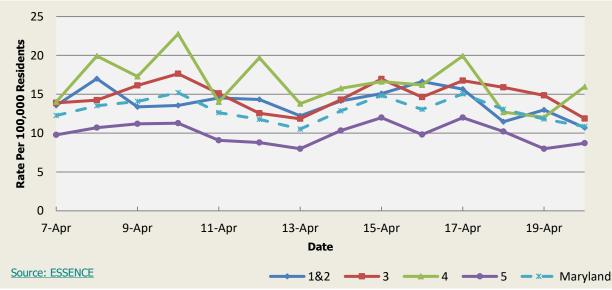




Respiratory Syndrome

	Respiratory Syndrome Baseline Data									
	January 1, 2020 - Present									
Health Region	1&2	1&2 3 4 5 Maryland								
Mean Rate*	13.15	13.15 14.98 17.12 10.07 13.07								
Median Rate*	ian Rate* 12.80 14.01 16.42 9.62 12.35									
	*Per 100,000 Residents									

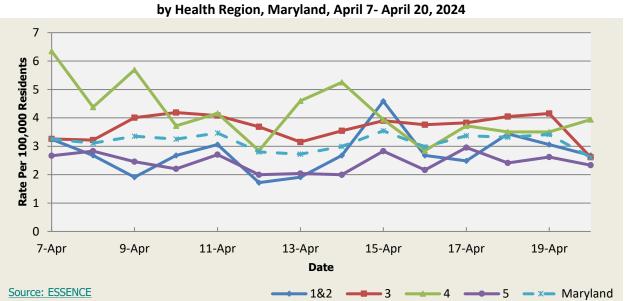




Fever Syndrome

	Fever Syndrome Baseline Data January 1, 2020 - Present							
Health Region	1&2 3 4 5 Maryla							
Mean Rate*	3.10	3.10 3.88 4.34 2.72						
Median Rate*	3.06 3.72 4.16 2.58 3.29							

*Per 100,000 Residents

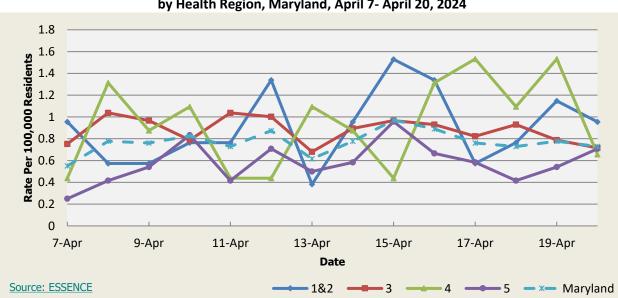


Emergency Department Chief Complaints for Fever Syndrome by Health Region, Maryland, April 7- April 20, 2024

Localized Lesion Syndrome

	Localized Lesion Syndrome Baseline Data January 1, 2020 - Present								
Health Region	1&2 3 4 5 Maryland								
Mean Rate*	1.09	1.09 0.93 1.31 0.59							
Median Rate*	0.96 0.93 1.31 0.58 0.83								

* Per 100,000 Residents

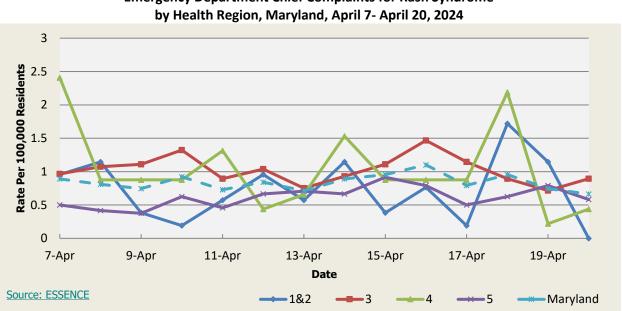


Emergency Department Chief Complaints for Localized Lesion Syndrome by Health Region, Maryland, April 7- April 20, 2024

Rash Syndrome

	Rash Syndrome Baseline Data January 1, 2020 - Present								
Health Region	1&2	1&2 3 4 5 Maryland							
Mean Rate*	0.69	0.69 0.93 1.03 0.57 0.78							
Median Rate*	0.57 0.89 0.88 0.54 0.76								
	* Dor	100 000	Posidont	c					

Per 100,000 Residents



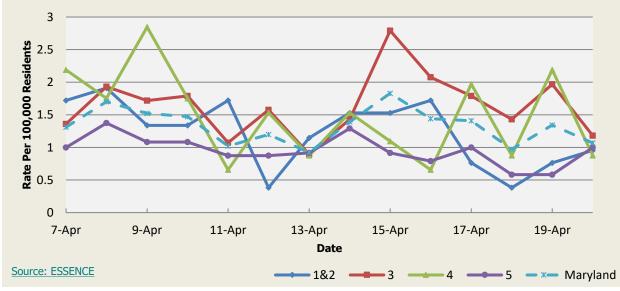
Emergency Department Chief Complaints for Rash Syndrome

Neurological Syndrome

	Neurological Syndrome Baseline Data January 1, 2020 - Present									
Health Region	1&2 3 4 5 Maryland									
Mean Rate*	1.11 1.51 1.51 1.01 1.28									
Median Rate*	1.15 1.50 1.53 1.00 1.28									
	* Par 100 000 Pasidants									

Per 100,000 Residents



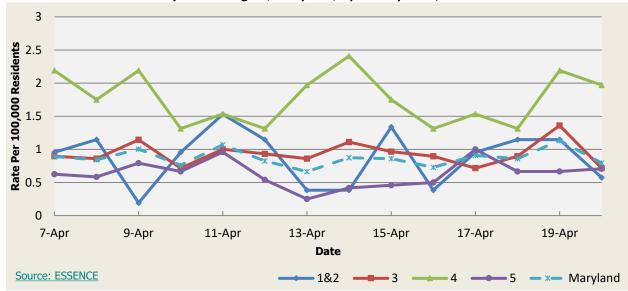


Severe Illness or Death Syndrome

	Severe Illness or Death Syndrome Baseline Data January 1, 2020 - Present								
Health Region	1&2 3 4 5 Maryland								
Mean Rate*	0.80	0.77	1.10	0.66	0.75				
Median Rate*	0.76 0.75 1.09 0.67 0.74								

* Per 100,000 Residents

Emergency Department Chief Complaints for Severe Illness or Death Syndrome by Health Region, Maryland, April 7- April 20, 2024



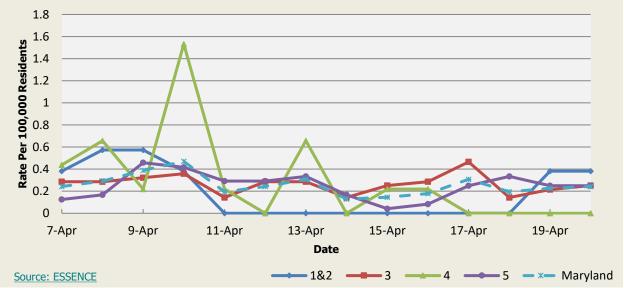
SYNDROMES RELATED TO CATEGORY A AGENTS

Botulism-like Syndrome

	Botulism-like Syndrome Baseline Data January 1, 2020 - Present							
Health Region	1&2	1&2 3 4 5 Marylar						
Mean Rate*	0.15	0.24	0.14	0.20	0.21			
Median Rate*	0.19	0.21	0.00	0.21	0.19			

* Per 100,000 Residents



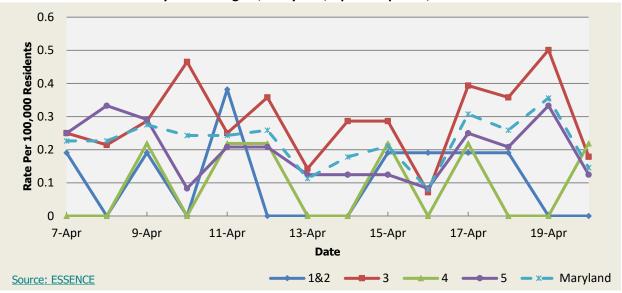


Hemorrhagic Illness Syndrome

	Hemorrhagic Illness Syndrome Baseline Data January 1, 2020 - Present								
Health Region	1&2	1&2 3 4 5 Maryland							
Mean Rate*	0.09	0.25	0.08	0.25	0.22				
Median Rate*	0.00	0.00 0.21 0.00 0.21 0.19							
	* 0	400.00	0.0						

* Per 100,000 Residents

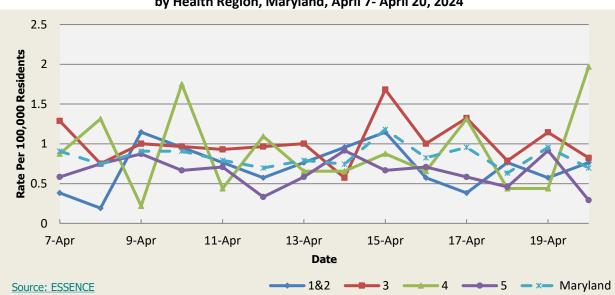
Emergency Department Chief Complaints for Hemorrhagic Illness Syndrome by Health Region, Maryland, April 7- April 20, 2024



Lymphadenitis Syndrome

	Lymphadenitis Syndrome Baseline Data January 1, 2020 - Present							
Health Region	1&2 3 4 5 Marylar							
Mean Rate*	0.65	0.79	0.55	0.59	0.68			
Median Rate*	n Rate* 0.57 0.79 0.44 0.58							
	*	100 000						

* Per 100,000 Residents



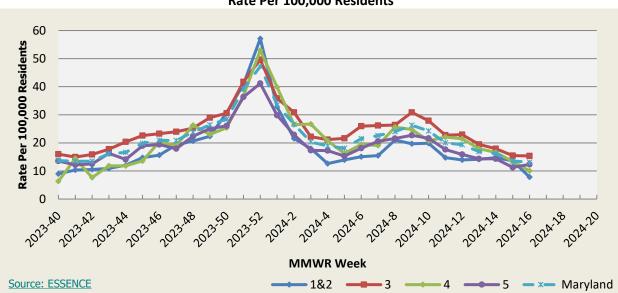
Emergency Department Chief Complaints for Lymphadenitis Syndrome by Health Region, Maryland, April 7- April 20, 2024

SYNDROMIC INFLUENZA SURVEILLANCE

Seasonal Influenza Activity for 2024 Week 16 was: MINIMAL

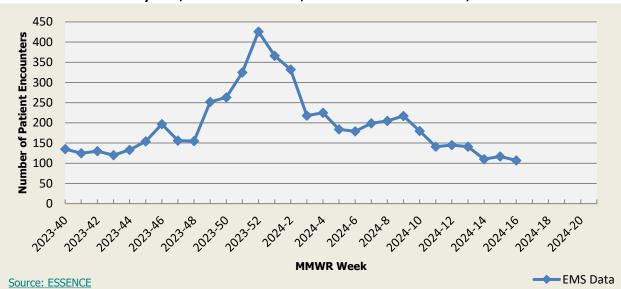
Seasonal Influenza reporting occurs from MMWR Week 40 through MMWR Week 20 (October 2023 through May 2024).

		Influenza-like Illness Baseline Data Week 40 2019 - Present				
	Health Region	1&2	3	4	5	Maryland
Influenza-like Illness	Mean Rate*	11.61	17.80	15.66	13.96	15.63
	Median Rate*	8.79	13.51	11.82	10.70	11.83
				*	Per 100 0	00 Residents



Emergency Department Chief Complaints for Influenza-like Illness by Health Region, Maryland, MMWR Week 40, 2023 - MMWR Week 20, 2024 Rate Per 100,000 Residents

Influenza-like Illness from Emergency Medical Services (EMS) by Week



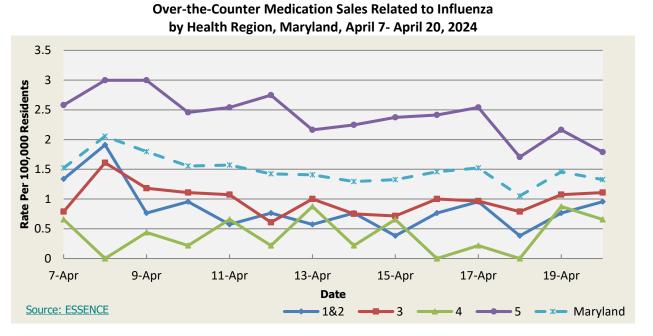
Emergency Medical Services Influenza Like Illness Contacts by Week Maryland, MMWR Week 40, 2023 - MMWR Week 20, 2024

Disclaimer on EMS flu related data: These data are based on EMS Pre-hospital care reports where the EMS provider has selected "flu like illness" as a primary or secondary impression of a patient's illness. This impression is solely based on the signs and symptoms seen by the provider, not on any diagnostic tests. Since these numbers do not include all primary or secondary impressions that may be seen with influenza the actual numbers may be low. These data are reported for trending purposes only.

Over-the-Counter Influenza-Related Medication Sales

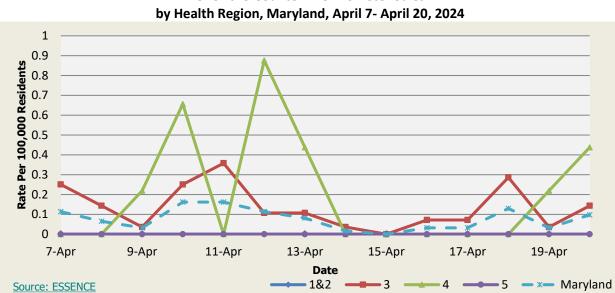
	OTC Medication Sales Baseline Data January 1, 2020 - Present							
Health Region	1&2 3 4 5 Maryland							
Mean Rate*	1.55 1.54 1.17 3.99 2							
Median Rate*	1.34 1.29 1.09 3.58 2.20							
	* Dor 1		lacidante					

Per 100,000 Residents



Over-the-Counter Thermometer Sales

	Thermometer Sales Baseline Data January 1, 2020 - Present					
Health Region	1&2	3	4	5	Maryland	
Mean Rate*	0.41	0.39	0.66	0.38	0.40	
Median Rate*	0.19	0.29	0.44	0.25	0.29	
* Per 100,000 Residents						



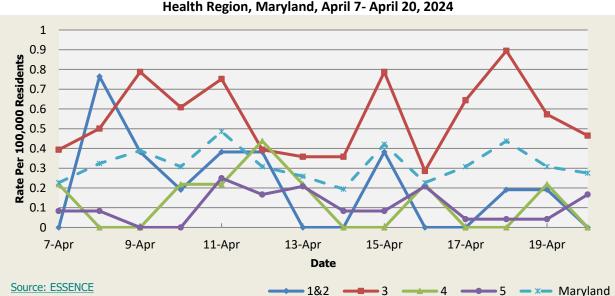
Over-the-Counter Thermometer Sales

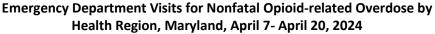
Note: Counts for Over-the-Counter Thermometer sales are incomplete due to changes in product UPC codes by some pharmacies

SYNDROMIC OVERDOSE SURVEILLANCE

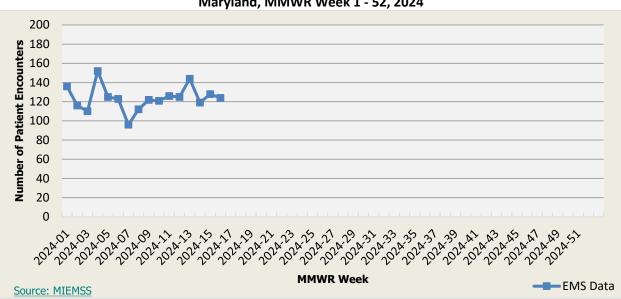
The purpose of this section is to characterize nonfatal overdose trends among Maryland residents captured by ESSENCE data, including emergency department (ED) chief complaint and discharge diagnosis as well as emergency medical services (EMS) patient care reports. Maryland uses ESSENCE data to track trends in nonfatal drug overdoses as a critical strategy for surveillance and tailoring prevention resources to populations most affected in the state.

Nonfatal Opioid-related Overdose





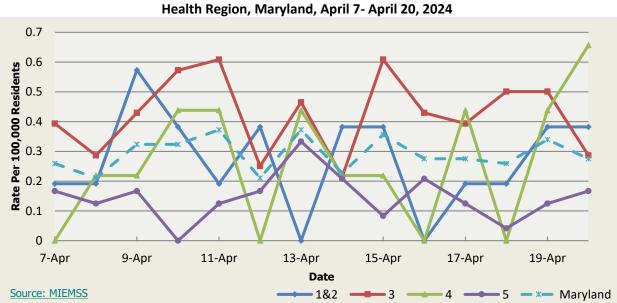
Naloxone Administration Data by Week



Emergency Medical Services Naloxone Administration Data by Week Maryland, MMWR Week 1 - 52, 2024

Disclaimer on eMEDS naloxone administration related data: These data are based on EMS Pre-hospital care reports where the EMS provider has documented that they administered naloxone. The administration of naloxone is based on the patient's signs and symptoms and not on any diagnostic tests. These data are reported for trending purposes only.

Naloxone Administration Data by Region



Emergency Medical Services Naloxone Administration Data by Health Region, Maryland, April 7- April 20, 2024

Disclaimer on eMEDS Naloxone administration related data: These data are based on EMS Pre-hospital care reports where the EMS provider has documented that they administered naloxone. The administration of naloxone is based on the patient's signs and symptoms and not on any diagnostic tests. These data are reported for trending purposes only.

RESOURCES:

World Health Organization (WHO):

- Disease Outbreak News (DONs)
- Emergency Situation Reports
- Weekly Epidemiological Record (WER)
- <u>Avian Influenza Situation Reports</u>

ProMED Reports:

Latest Posts and Hot Topics

OTHER RESOURCES AND ARTICLES OF INTEREST

More information concerning Public Health and Emergency Preparedness can be found at the Office of Preparedness and Response website: <u>http://preparedness.health.maryland.gov/</u> or follow us on Facebook at <u>www.facebook.com/MarylandOPR</u>.

More data and information on influenza can be found on the MDH website: <u>http://phpa.health.maryland.gov/influenza/fluwatch/Pages/Home.aspx</u>

Please participate in the Maryland Resident Influenza Tracking System (MRITS): <u>http://flusurvey.health.maryland.gov</u>

NOTE: This weekly review is a compilation of data from various surveillance systems, interpreted with a focus on a potential BT event. It is not meant to be inclusive of all epidemiology data available, nor is it meant to imply that every activity reported is a definitive BT event. International reports of outbreaks due to organisms on the CDC Critical Biological Agent list will also be reported. While not "secure", please handle this information in a professional manner. Please feel free to distribute within your organization, as you feel appropriate, to other professional staff involved in emergency preparedness and infection control.

For questions about the content of this review or if you have received this and do not wish to receive these weekly notices, please e-mail us (mdh.essence@maryland.gov). If you have information that is pertinent to this notification process, please send it to us to be included in the routine report.

Prepared By:

Office of Preparedness and Response, Maryland Department of Health 7462 Candlewood Rd, Hanover, MD 21076

Appendix 1: ESSENCE Syndrome Definitions and Associated Category A Conditions

Syndrome	ESSENCE Definition	Category A Conditions
Botulism-like	(Botulism or (DifficultyFocusing and DifficultySpeaking) or (DifficultySpeaking and DifficultySwallowing) or (DifficultySwallowing and DifficultyFocusing) or DoubleVision or FacialParalysis or GuillainBarre or Ptosis) and not GeneralExclusions	Botulism
Fever	(Chills or (FeverPlus and (Drowsiness or Seizure)) or FeverOnly or SepsisGroup or ViralSyndrome) and not GeneralExclusions	N/A
Gastrointestinal	(AbdominalCramps or AbdominalPainGroup or Diarrhea or FoodPoisoning or Gastroenteritis or GIBleeding or Peritonitis or Vomiting) and not (GeneralExclusions or Gynecological or Obstetric or Reproductive or UrinaryTract)	Anthrax (gastrointestinal)
Hemorrhagic Illness	(FeverOrChills and (AcuteBloodAbnormalitiesGroup or BleedingFromMouth or BleedingGums or GIBleeding or Hematemesis or Hemoptysis or Nosebleed or Petechiae or Purpura)) and not GeneralExclusions	Viral Hemorrhagic Fever
Localized Lesion	(Boils or Bump or Carbuncle or DepressedUlcer or Eschar or Furuncle or InsectBite or SkinAbscess or (SkinSores and not AllOverBody) or SkinUlcer or SpiderBite) and not (GeneralExclusions or Decubitus or Diabetes or StasisUlcer)	Anthrax (cutaneous) Tularemia
Lymphadenitis	(BloodPoisoning or Bubo or CatScratchDisease or SwollenGlands) and not GeneralExclusions	Plague (Bubonic)
Neurological	(([Age<75] and AlteredMentalStatus) or (FeverPlus and (Confusion or Drowsiness or Petechiae or StiffNeck)) or Delirium or Encephalitis or Meningitis or UnconsciousGroup) and not GeneralExclusions	N/A
Rash	(ChickenPox or Measles or RashGeneral or Roseola or (Rubella and not Pregnancy) or Shingles or (SkinSores and AllOverBody) or Smallpox) and not GeneralExclusions	Smallpox
Respiratory	(Anthrax or Bronchitis or (ChestPain and [Age<50]) or Cough or Croup or DifficultyBreathing or Hemothorax or Hypoxia or Influenza or Legionnaires or LowerRespiratoryInfection or Pleurisy or Pneumonia or RespiratoryDistress or RespiratoryFailure or RespiratorySyncytialVirus or RibPain or ShortnessOfBreath or Wheezing) and not (GeneralExclusions or Cardiac or (ChestPain and Musculoskeletal) or Hyperventilation or Pneumothorax)	
Severe Illness or Death	CardiacArrest or CodeGroup or DeathGroup or (Hypotension and FeverPlus) or RespiratoryArrest or SepsisGroup or Shock	N/A

Health and Medical Region	Counties Reporting to ESSENCE		
	Allegany County		
Decience 1 9 2	Frederick County		
Regions 1 & 2	Garrett County		
	Washington County		
Region 3	Anne Arundel County		
	Baltimore City		
	Baltimore County		
	Carroll County		
	Harford County		
	Howard County		
	Caroline County		
	Cecil County		
	Dorchester County		
	Kent County		
Region 4	Queen Anne's County		
	Somerset County		
	Talbot County		
	Wicomico County		
	Worcester County		
	Calvert County		
	Charles County		
Region 5	Montgomery County		
	Prince George's County		
	St. Mary's County		

Appendix 2: Maryland Health and Medical Region Definitions

