## WEEKLY EPIDEMIOLOGY BULLETIN NATIONAL SURVEILLANCE UNIT, MINISTRY OF HEALTH & WELLNESS, JAMAICA

### Weekly Spotlight

### **Diabetes (Part 2)**



#### Type 1 diabetes

Type 1 diabetes (previously known as insulin-dependent, juvenile or childhood-onset) is characterized by deficient insulin production and requires daily administration of insulin. In 2017 there were 9 million people with type 1 diabetes; the majority of them live in highincome countries. Neither its cause nor the means to prevent it are known.

Type 2 diabetes affects how your body uses sugar (glucose) for energy. It stops the body from using insulin properly, which can lead to high levels of blood sugar if not treated. Over time, type 2 diabetes can cause serious damage to the body, especially nerves and blood vessels.

Type 2 diabetes is often preventable. Factors that contribute to developing type 2 diabetes include being overweight, not getting enough exercise, and genetics. Early diagnosis is important to prevent the worst effects of type 2 diabetes. The best way to detect diabetes early is to get regular check-ups and blood tests with a healthcare provider.

Symptoms of type 2 diabetes can be mild. They may take several years to be noticed. Symptoms may be similar to those of type 1 diabetes but are often less marked. As a result, the disease may be diagnosed several years after onset, after complications have already arisen.

More than 95% of people with diabetes have type 2 diabetes. Type 2 diabetes was formerly called non-insulin dependent, or adult onset. Until recently, this type of diabetes was seen only in adults but it is now also occurring increasingly frequently in children.

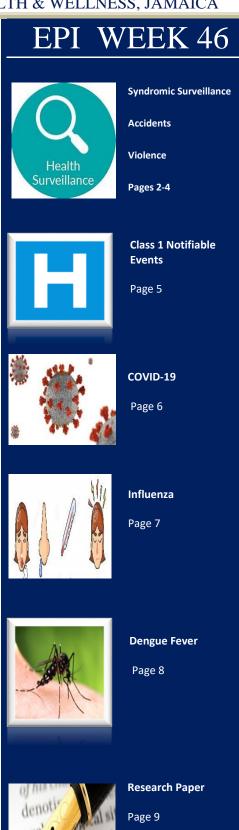
#### Gestational diabetes

Gestational diabetes is hyperglycaemia with blood glucose values above normal but below those diagnostic of diabetes. Gestational diabetes occurs during pregnancy.

Women with gestational diabetes are at an increased risk of complications during pregnancy and at delivery. These women and possibly their children are also at increased risk of type 2 diabetes in the future.

Gestational diabetes is diagnosed through prenatal screening, rather than through reported symptoms.

Taken from WHO website on 28/November/2024 https://www.who.int/news-room/fact-sheets/detail/diabetes



re-sear

#### Sentinel Surveillance in Jamaica



Table showcasing the Timeliness of Weekly Sentinel Surveillance Parish Reports for the Four Most Recent Epidemiological Weeks – 43 to 46 of 2024

Parish health departments submit reports weekly by 3 p.m. on Tuesdays. Reports submitted after 3 p.m. are considered late.

#### KEY:

Yellow- late submission on Tuesday Red – late submission after Tuesday A syndromic surveillance system is good for early detection of and response to public health events.

Sentinel surveillance occurs when selected health facilities (sentinel sites) form a network that reports on certain health conditions on a regular basis, for example, weekly. Reporting is mandatory whether or not there are cases to report.

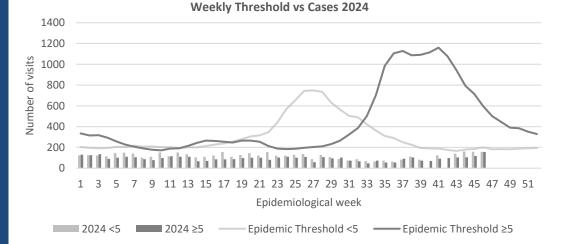
Jamaica's sentinel surveillance system concentrates on visits to sentinel sites for health events and syndromes of national importance which are reported weekly (see pages 2 -4). There are seventy-eight (78) reporting sentinel sites (hospitals and health centres) across Jamaica.

Epi week	Kingston and Saint Andrew	Saint Thomas	Saint Catherine	Portland	Saint Mary	Saint Ann	Trelawny	Saint James	Hanover	Westmoreland	Saint Elizabeth	Manchester	Clarendon
						20	)24						
43	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time
44	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time
45	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time
46	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	Late (T)	On Time	On Time	On Time

## REPORTS FOR SYNDROMIC SURVEILLANCE

#### UNDIFFERENTIATED FEVER

Temperature of  $>38^{\circ}C$ /100.4°*F* (or recent history of fever) with or without an obvious diagnosis or focus of infection.



Weekly Visits to Sentinel Sites for Undifferentiated Fever All ages: Jamaica,

2 NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

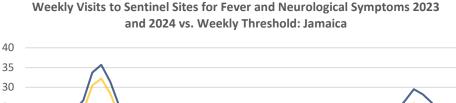




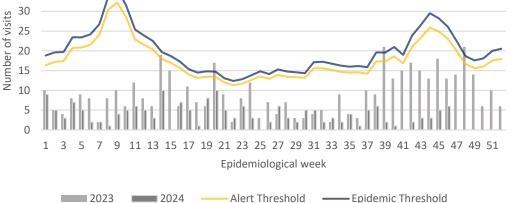
#### November 29, 2024

#### FEVER AND NEUROLOGICAL

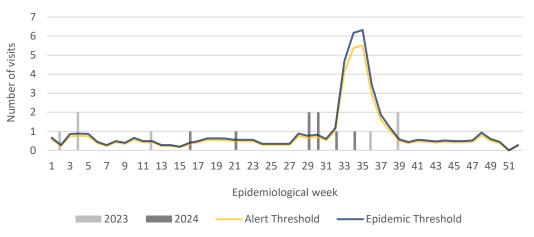
Temperature of >38°C /100.4°F (or recent history of fever) in a previously healthy person with or without headache and vomiting. The person must also have meningeal irritation, convulsions, altered consciousness, altered sensory manifestations or paralysis (except AFP).



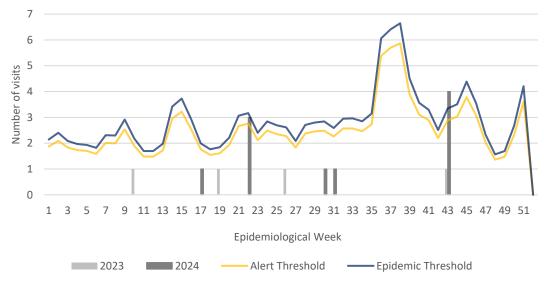
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Weekly visits to Sentinel Sites for Fever and Haemorrhagic 2023 and 2024 vs Weekly Threshold; Jamaica



Fever and Jaundice cases: Jamaica, Weekly Threshold vs Cases 2023 and 2024





3 NOTIFICATIONS-All clinical sites

INVESTIGATION REPORTS- Detailed Follow up for all Class One Events







**FEVER AND** 

HAEMORRHAGIC

Temperature of >38°C

/100.4<sup>o</sup>*F* (or recent history of

fever) in a previously healthy

(bleeding) manifestation with

person presenting with at

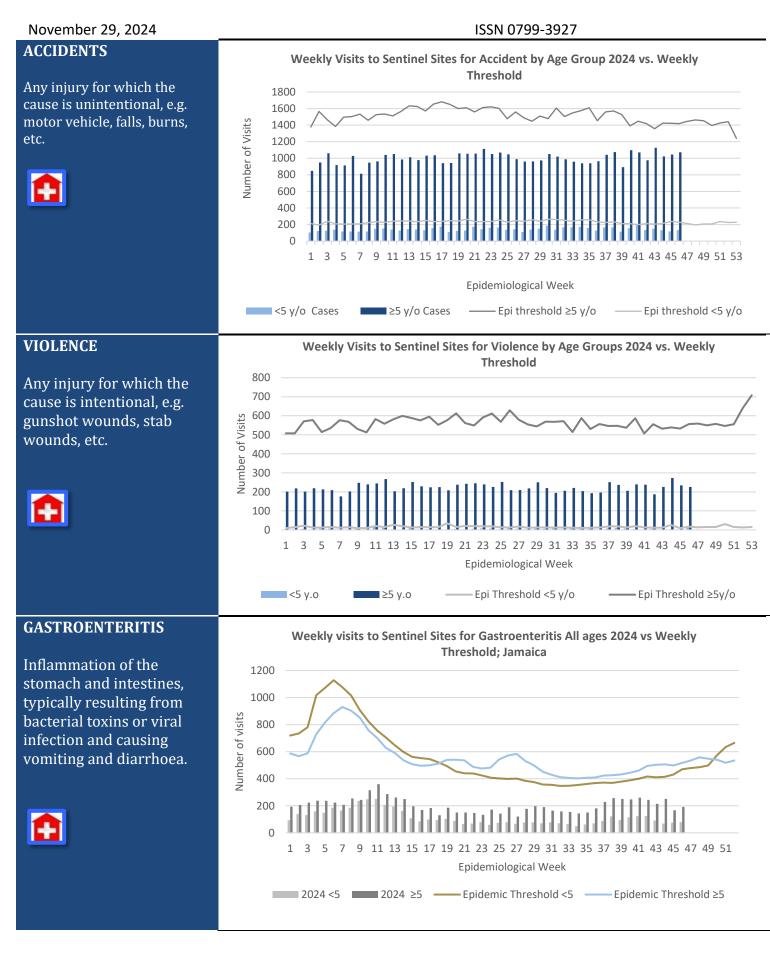
least one haemorrhagic

or without jaundice.

#### **FEVER AND JAUNDICE**

Temperature of  $>38^{\circ}C/100.4^{\circ}F$ (or recent history of fever) in a previously healthy person presenting with jaundice.

The epidemic threshold is used to confirm the emergence of an epidemic in order to implement control measures. It is calculated using the mean reported cases per week plus 2 standard deviations.



4 NOTIFICATIONS-All clinical sites



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HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued





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## CLASS ONE NOTIFIABLE EVENTS

#### Comments

	CLASS 1 EVENTS		_ Confirm	ed YTD <sup><math>\alpha</math></sup>	AFP Field Guides from	
			CURRENT YEAR 2024	PREVIOUS YEAR 2023	WHO indicate that for an effective surveillance system, detection rates for	
	Accidental P	oisoning	288 <sup>β</sup>	355 <sup>β</sup>	AFP should be 1/100,000	
Ę	Cholera		0	0	population under 15 years old (6 to 7) cases annually.	
ONA	Severe Deng	ue <sup>v</sup>	See Dengue page below	See Dengue page below	old (0 to 7) cases annually.	
ATI	COVID-19 (	SARS-CoV-2)	689	3799	Pertussis-like syndrome and	
NATIONAL /INTERNATIONAL INTEREST	Hansen's Dis	ease (Leprosy)	0	0	Tetanus are clinically	
IER	Hepatitis B		27	58	confirmed classifications.	
AL /	Hepatitis C		3	28	Y Dengue Hemorrhagic	
ON	HIV/AIDS		NA	NA	Fever data include Dengue	
IATI	Malaria (Imp	ported)	2	3	related deaths;	
Z	Meningitis		13	25	$^{\delta}$ Figures include all deaths	
	Monkeypox		0	3	associated with pregnancy reported for the period.	
EXOTIC/ UNUSUAL	Plague		0	0		
TY/	Meningococo	cal Meningitis	0	0	<sup>ε</sup> CHIKV IgM positive cases	
H IGH Morbidity Mortality	Neonatal Tet	anus	0	0	$^{\theta}$ Zika PCR positive cases	
H I DRB DRT	Typhoid Feve	er	0	0	$\beta$ Updates made to prior	
W	Meningitis H	/Flu	1	2	weeks.	
	AFP/Polio		0	0	$^{\alpha}$ Figures are cumulative	
	Congenital R	ubella Syndrome	0	0	totals for all epidemiological	
70	Congenital Syphilis		0	0	weeks year to date.	
MES	Fever and Rash	Measles	0	0		
SPECIAL PROGRAMI		Rubella	0	0		
SOG	Maternal Dea	ıths <sup>δ</sup>	58	51		
L PI	Ophthalmia 1	Neonatorum	166	155		
CIA	Pertussis-like	syndrome	0	0		
SPE	Rheumatic F	ever	0	0		
	Tetanus		0	0		
	Tuberculosis		29	59		
	Yellow Fever		0	0		
	Chikungunya	3	0	0		
	Zika Virus <sup>θ</sup>		0	0	NA- Not Available	

NOTIFICATIONS-5 All clinical sites



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HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued





#### November 29, 2024

## **COVID-19 Surveillance Update**

CASES	EW 46	Total		
Confirmed	3	157421		
Females	0	90701		
Males	3	66717		
Age Range	35 to 83 years old	1 day to 108 years		

3 positive cases had no gender specification

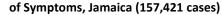
\* PCR or Antigen tests are used to confirm cases

\* Total represents all cases confirmed from 10 Mar 2020 to the current Epi-Week.

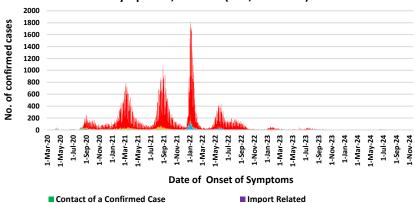
#### COVID-19 Outcomes

Outcomes	EW 46	Total			
ACTIVE *2 weeks*		5			
DIED – COVID Related	0	3866			
Died - NON COVID	0	388			
Died - Under Investigation	0	154			
Recovered and discharged	0	103226			
Repatriated	0	93			
Total		157421			
*V/accipation programme March 2021 - VTD					

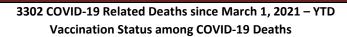
**Classification of Confirmed COVID-19 Cases by Date of Onset** 

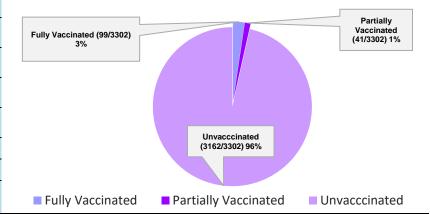


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Imported Under Investigation Local Transmission (Not Epi Linked) Workplace Cluster

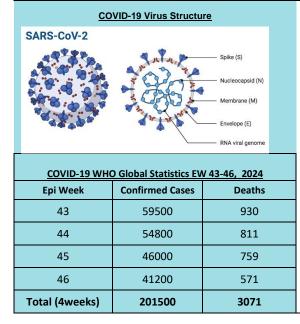


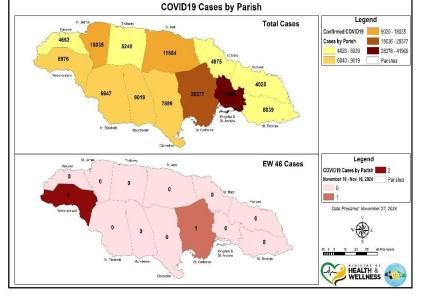


\*Vaccination programme March 2021 – YTD

\* Total as at current Epi week

#### COVID-19 Parish Distribution and Global Statistics





NOTIFICATIONS-6 All clinical



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HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



SENTINEL REPORT- 78 sites. Automatic reporting



sites

#### November 29, 2024

## NATIONAL SURVEILLANCE UNIT **INFLUENZA REPORT**

#### ISSN 0799-3927

EW 46

#### November 9, 2024 - November 16, 2024 Epidemiological Week 46 EW 46 **YTD** Weekly visits to Sentinel Sites for Influenza-like Illness (ILI) All ages SARI cases 16 334 2024 vs Weekly Threshold; Jamaica Total Influenza 2500 positive 10 167 Samples 2000 Influenza A 10 162 Number of visits H3N2 42 1500 0 H1N1pdm09 10 120 1000 Not subtyped 0 0 5 0 Influenza B 500 B lineage not 0 0 0 determined 5 9 11 13 15 17 19 21 23 25 27 29 31 35 37 39 41 43 45 47 49 51 **B** Victoria 0 5 Parainfluenza 0 0 Epidemiological week 2024 5-59 2024 >60 2024 <5 Adenovirus 0 0 Epidemic Threshold <5 Epidemic Threshold 5-59 Epidemic Threshold ≥60 RSV 62 8 **Epi Week Summary** Jamaica: Percentage of Hospital Admissions for Severe Acute Respiratory Illness (SARI 2024) (compared with 2011-2023) 3.0% During EW 46, sixteen (16) SARI admissions were reported. rcentage of SARI cases 2.5% 2.0% 1.5% 1.0% 0.5% Pel 0.0% 3 5 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 53 1 7 Epidemiological Week SARI 2024 Average epidemic curve (2011-2021) lert Threshold ---- SARI 2023 Epidemic Threshold Seasonal Trend Caribbean Update EW 46 Distribution of Influenza and Other Respiratory Viruses Under Surveillance by EW, Jamaica - 2024 Caribbean: ILI cases have remained low over the past four 30 weeks, although the proportion of RSV- positive cases has increased. SARI cases remain low, but an increase in SARS-CoV-2 positivity has been observed. Influenza 25 activity remains at low levels, predominantly A(H1N1)pdm09. RSV and SARS-CoV-2 activity have **Positive Samples** risen significantly in several countries over the past four 20 weeks. 15 By country: In the past four weeks, influenza activity has been observed in Belize, Barbados and Jamaica. SARS-CoV-2 activity has been reported in Haiti. RSV activity has 10 been detected in Belize, the Dominican Republic, Jamaica, Barbados, the Cayman Islands, Guyana and Saint Vincent and the Grenadines 5 In Jamaica, SARI cases remain around the epidemic threshold, while pneumonia cases are declining at epidemic 0 levels. Over the past four weeks, influenza activity has exceeded the epidemic threshold, accompanied by an 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 1 3 5 increase in RSV activity. (taken from PAHO Respiratory viruses weekly report) https://www.paho.org/en/influenza-situation-report Epi Week ■ Adenovirus 📕 B Victoria 📕 RSV 📕 B lineage non-determined 📕 A not subtyped 📕 Parainfluenza 🗰 SARS-CoV-2... ■ A(H3N2) 🔳 A(H1N1)pdm09 NOTIFICATIONS-7

All clinical

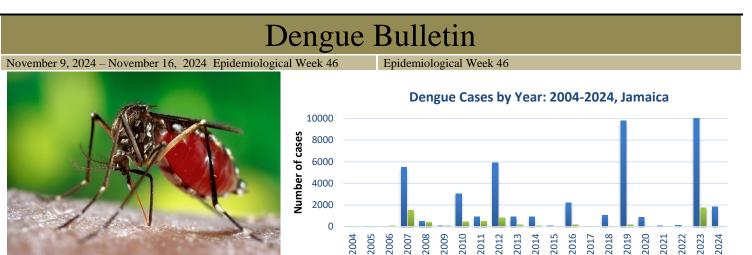
sites

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HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

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Reported suspected, probable and confirmed dengue with symptom onset in week 46 of 2024

	2024*			
	EW 46	YTD		
Total Suspected, Probable & Confirmed Dengue Cases	0	1859		
Lab Confirmed Dengue cases	0	43		
CONFIRMED Dengue Related Deaths	0	2		

#### Points to note:

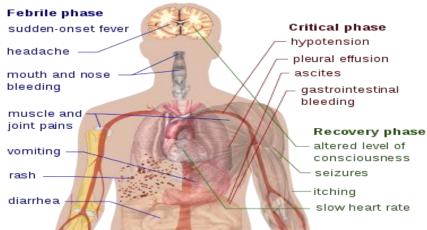
- Dengue deaths are reported based on date of death.
- \*Figure as at November 28, 2024
- Only PCR positive dengue cases are reported as confirmed.
- IgM positive cases are classified as presumed dengue.

Symptoms of Dengue fever

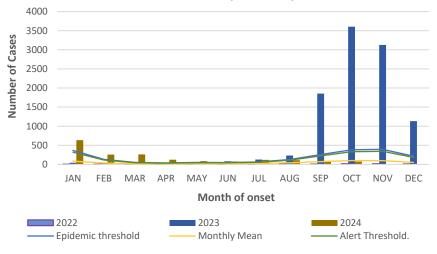
Total Suspected, probable & confirmed

Year

Confirmed DF



Suspected, probable and confirmed dengue cases for 2022 - 2024 versus monthly mean, alert, and epidemic thresholds (2007-2022)



8 NOTIFICATIONS-All clinical sites



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HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued





## **RESEARCH PAPER**

#### Abstract

#### NHRC-23-P05

# The Demographic Characteristics of Patients Referred to the Liaison Psychiatric Service at the

#### **Bustamante Hospital for Children**

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**Objective:** To Investigate the epidemiological characteristics of children with medical illnesses who are referred to the psychiatric liaison service at the Bustamante Hospital for Children

**Method:** This is a secondary data analysis of a longitudinal census of all patients seen on the liaison psychiatric service of the Bustamante Hospital for children from July 2016- June 2020. Frequencies were generated of the gender, age, reason for referral, medical and psychiatric diagnoses of patients referred to the liaison service. Chi-Square analyses was used to test the statistical association between the types of medical/surgical disorders which referred children had, with their psychiatric diagnoses.

**Results:** There were 496 patients referred to the Pediatric Liaison service between July 2016 to June 2020. Fifty-three percent of referrals were male and 47% were female. The mean age was 8.82 years with a standard deviation of 2.801 years. The median age was 9.00 years, and the modal age was 10 years. The most common reasons for referrals were behavioural issues (25%) and psychological trauma (25%). Among referred patients, neurodevelopmental/ neurocognitive disorders (Autism Spectrum Disorder, Communicative Disorders, Attention Deficit Hyperactivity Disorder, Intellectual Disabilities, Learning Disorders) was the most commonly diagnosed group of psychiatric disorder; 23.3% (n=107). The second most common group of psychiatric disorders was Mood Disorders (Depressive Disorders, Bipolar Disorders, Adjustment Disorders, Bereavement Disorder) with 22.3% of patients (n= 103). Half of the patients referred; 50% (n=248), had a chronic medical/surgical illness and their psychiatric disorder was associated with that. Nineteen percent (n=93) of patients had a psychiatric disorder with no medical condition.

There was a statistically significant association between having Medical/Surgical Diagnoses and anxiety disorders (p< .005), mood disorders (p< .005), neurodevelopmental disorders (p< .05) and Somatic disorders (p< .005).

**Conclusion**: Children with medical and surgical disorders, at the Bustamante Hospital for Children's hospital, have psychiatric and psychological issues which require the interventions of The Liaison Psychiatric Service.

Keywords: paediatric consultation-liaison psychiatry service; demographic characteristics



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9 NOTIFICATIONS-All clinical sites



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HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



