

European Centre for Disease Prevention and Control

EpiPulse Event-Based Surveillance

Influenza and other respiratory viruses (IRV) Domain

Ajibola Omokanye, ECDC 05 March 2024

Agenda



1. Overview of EpiPulse functionality

- Access to IRV domain
- EpiPulse Item types

2. Event-based surveillance in EpiPulse

- When and how to post an Event
- Role of ECDC Round Table and Communicable Disease Threat Reports
- The value of timely positive or negative findings in country replies

3. Review of IRV domain EpiPulse use in 2023

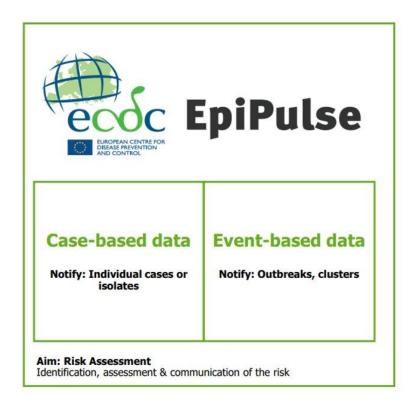
4. Network user experiences and feedback

- What challenges are users facing?
- How can we improve the network's experience with EpiPulse?



What is EpiPulse?

- Online portal for European public health authorities and global partners
- Collect, analyse, share, and discuss data for threat detection, monitoring, risk assessment and outbreak response.
- Platform integrates indicator-based and event-based surveillance, including molecular typing.





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Access to IRV domain

- Several domains exist within EpiPulse
- Access dependent on CCB nomination
- Current users for IRV network:

OCPs / NFPs for Viral Respiratory Diseases from EU/EEA and EU-pre-accession countries

Other users that can invited to specific events (when applicable):

EURL Avian Influenza EFSA WHO Euro DG SANTE (reader)

	3- digit	Short name	Domain	
1	ARH	ARHAI	Antimicrobial resistance and healthcare-associated infections	
2	EIP	EI	Epidemic Intelligence	
3	EVD	EVD	Emerging and vector borne diseases	
4	FWD	FWD	Food- and waterborne diseases and zoonoses	
5	HEP	HEP	Viral hepatitis	
6	HIV	HIV	HIV/AIDS	
7	IRV	IRV	Influenza and other respiratory viruses	
8	LEG	LEGI	Legionellosis	
9	PRE	PREP	Preparedness	
10	SHO	SoHO	Substances of Human Origin	
11	SRV	SRV	General Surveillance	
12	STI	STI	Sexually transmitted infections	
13	TUB	ТВ	Tuberculosis	
14	VPD	VPD	Vaccine-preventable Diseases	



EpiPulse Item types

There are different Item types to facilitate different activities within the platform:

• Signal

• Events - Even

Event-based surveillance

- Threats
- Long-term monitoring
- Forum
- News

ECDC can open:

'Signals' (incidents monitored but not assessed as posing a public health risk for the EU/EEA), 'Events', 'Threats' as well as reclassify a Signal and Event to Threat, if the situation is assessed to pose a public health risk for the EU/EEA and is of concern.

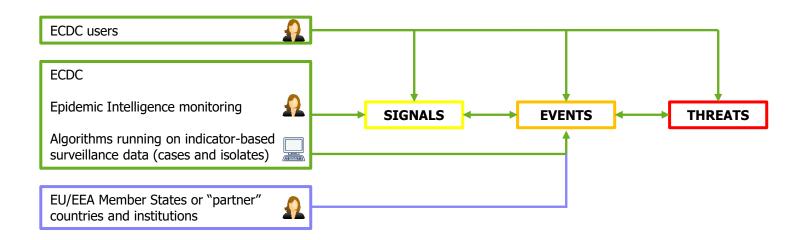
External users can open:

Events – focus of today's session

Forum News

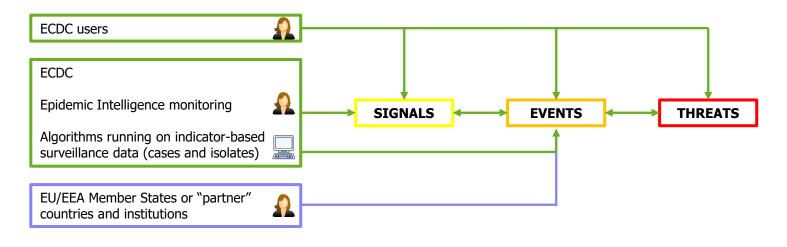


- According to their permissions, users can create an Event, a Forum or a News item
- An Event is defined as:
 - case(s)/cluster(s)/outbreak(s)/epidemiological situation(s)/incident(s)/public health risk situation(s),
 - detected in/reported by one or several countries,
 - that according to your assessment pose (or may pose) a public health risk for the EU/EEA.



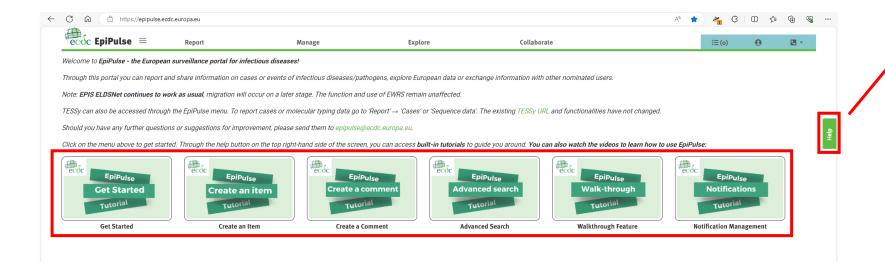


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- ECDC assesses all Events, summarising in the Situation Awareness Summary
- Should the Event be of concern within the mandate of ECDC and assessed as posing a public health risk for the EU/EEA, ECDC will re-classify the event as a **Threat**.
- In such cases, DG SANTE (Health Threats Unit -B2) are granted access to the Situation Awareness Summary but **cannot** see the initial post nor any comments from stakeholders.





		Help 💉 🔇
1	Q	Enter your search criteria here
	PDF	Getting started with EpiPulse - Supporting document
		Videos to get started
		Generic functionalities
		Events, Forums & News
		Molecular typing
		ECDC Supporting document for external users- How to use EpiPulse Events, Forums and News
	(Getting started with EpiPulse for external users 13 October 2023 Ver.1.1
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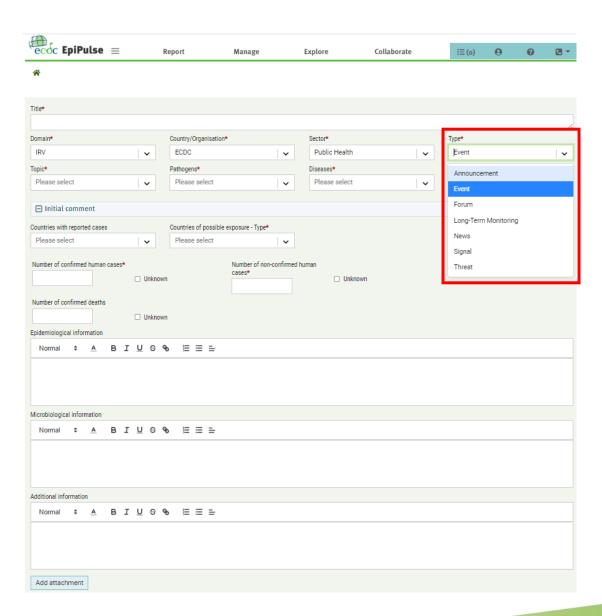


ecoc EpiPulse ≡	Report	Manage	Explore	Collaborate
	Cases Events, Forum & News Sequence Data Determinant Data Surveillance system descriptors	Edit case/Case validation Atlas	Public Atlas Surveillance Dashboards/Reports Events, Forum & News Download data Signal detection tool Molecular typing tool Documents Overview	CCB contacts Domain Contacts Extranets

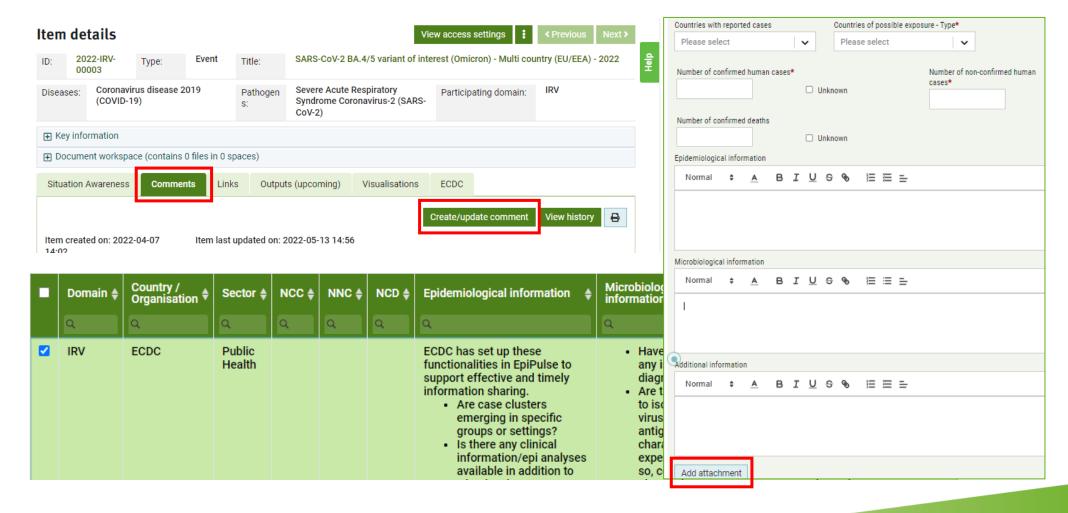














When and how to post

Example questions to consider:

- 1. What is the epidemiological setting for identified cases? (e.g. community, long term care facility)
- 2. Do cases have known underlying risk factors? (e.g. age, co-morbidities, immunocompromise)
- 3. What is the vaccination status of cases?
- 4. Did cases require hospital admission or supportive treatment? (e.g. antivirals, supportive oxygen)?
- 5. Is there recent travel history or known epidemiological link to travel-related cases, or other cases?
- 6. Is wider community transmission suspected?
- 7. Have any specific follow-up or control measures been applied?
- 8. Are additional lines of epidemiological investigation planned?
- 9. Is virus isolation and characterisation planned or under way? Are results available?
- 10. How representative (local, regional, national) is the data/information presented?
- 11. What is the short- (days/weeks), medium- (months) and long-term (years) trend in cases over time?
- 12. What challenges are you facing, and what support/information can ECDC/other countries offer?



Example workflow for EU/EEA country-initiated Events in EpiPulse

Step 1 - Detection

Country identifies an Event

Step 2 - Reporting

- Country checks if a related EpiPulse Event already exists → Posts information as a Comment in reply
- If no existing Event, Country creates a new Event to share epidemiological information
- Please check whether the event you are posting meets the EWRS criteria and liaise with your country's EWRS focal point, if required.

Step 3 - Assessing

- ECDC reviews Event post and responses from other countries
- ECDC prepares Situation Awareness Summary

Step 4 - Notifying

- It may be helpful to include details about some events in ECDC's Communicable Disease Threat Report
- Where feasible, ECDC will consult with countries to ensure sensitive information is NOT disclosed



Role of ECDC Round Table and Communicable Disease Threat Reports (CDTR)



- Follow-up with countries
- Situation Awareness Summary
 - restricted version
 - **public** version

- Review Event and classification
 - e.g. Event → Threat SCBTH criteria
- Open to relevant stakeholders
 e.g. WHO Euro, EFSA

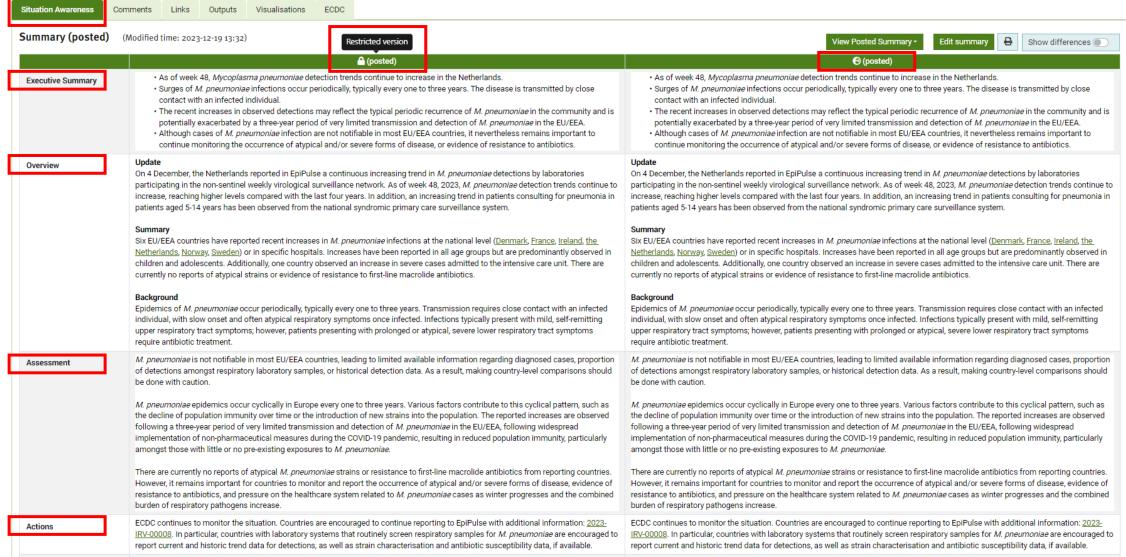
- Follow-up with countries
- Situation Awareness Summary included in CDTR
 - Daily **restricted**
 - Weekly **restricted**
 - Weekly **public**

EpiPulse *

ECDC website

^{*} Access to daily/weekly restricted CDTR is limited to nominated Epidemic Intelligence and Preparedness domains







EpiPulse vs EWRS

- EpiPulse and EWRS are complementary platforms.
- Please check if the event you are posting meets EWRS criteria and liaise with your country's EWRS focal point, if needed.
- Development work is ongoing to harmonise the experience across the two platforms.

	EpiPulse	EWRS	
Owner	ECDC	European Commission	
Objective of the platform	Risk assessment	Risk management	
Notification	Biological	All hazards SCBTH	
Type of notification	Informal	Formal	



The value of timely positive or negative findings in country replies

- When an Event is posted by Country A, e.g. observing an atypical outbreak or trend in detections
 - Country B may post a response, confirming that they have made similar observations
- It is extremely helpful during ECDC's assessment to receive timely
 - **positive findings** from other countries
 - **negative findings** from other countries, in particular neighbouring countries
 - updates about **ongoing investigations**
- This facilitates more effective and informed assessment

3. Review of IRV domain EpiPulse use in 2023



Examples of effective EpiPulse use

<u>2023-IRV-00002</u> Severe cases of influenza B among young persons

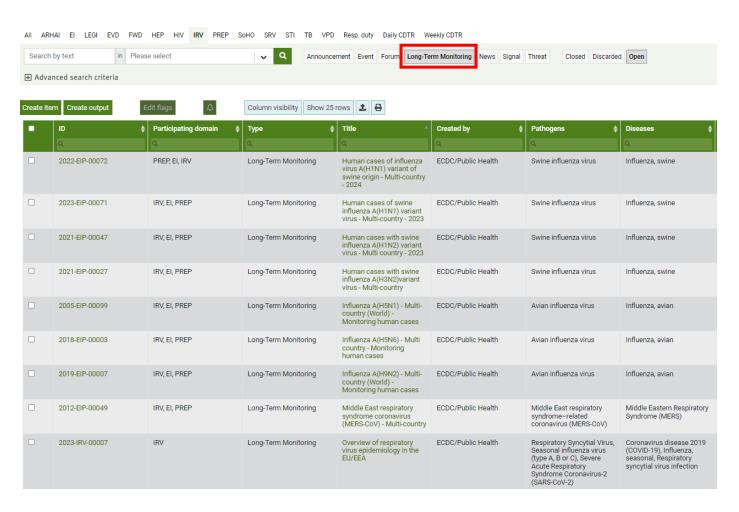
<u>2023-IRV-00008</u> Increase in respiratory infections due to Mycoplasma pnemoniae in the EU/EEA during the season 2023/2024

- Original Event post featured comprehensive epidemiological and microbiology information
- Prompt and comprehensive replies from additional countries
- Continuous updates to the Event with additional information
- Use of attachments for visual information

3. Review of IRV domain EpiPulse use in 2023



Long-Term Monitoring



Forum / News

- Forum provides a place for discussion around any scientific topic
- News provides a space to share other interesting information
- Neither used in 2023



Thank you

Questions?

General EpiPulse feedback and technical issues - **EpiPulse@ecdc.europa.eu**

IRV-specific issues - **ECDC.Influenza@ecdc.europa.eu**