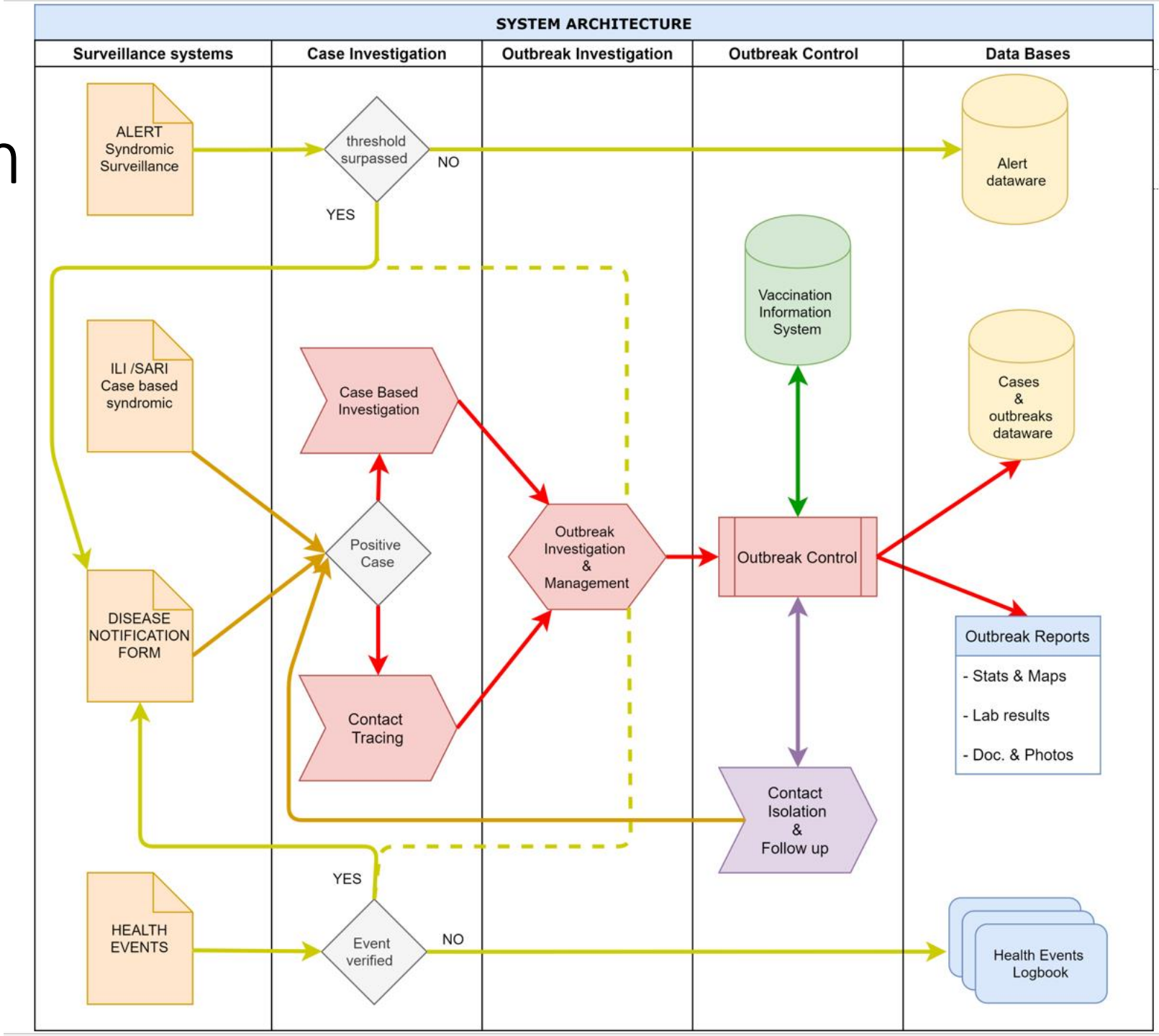
Data reports through an Integrated Digitalized Sentinel ILI/SARI Surveillance in Albania

Institute of Public Health
4 October 2022

Infectious Disease Information System (SISI)

- Integration of different surveillance system aiming at maximizing case detection and fast control actions



Web based surveillance platform

Disease notification

- clinician or lab

Syndromic based surveillance

- ILI/SARI
- ALERT (ARI)

Event based surveillance

- Health care system
- population/public

Medisys

- Media screening

Social media screening

Investigation

- Disease Case based investigation
- Outbreak investigation
- Contact tracing

Use of the system

Info/ signs/epi/ vaccine etc

-Address

-Gender

-Etc

- Clinical signs and symptoms

Lab

Data linkage – Influenza and SARS-COVI-2

Syndromic surveillance

linked with case based surveillance through an investigation form

- Timely daily data quality check – epidemiologist on call and district epidemiologist

- Weekly data check for duplication, completion of information and missing information especially from case investigation forms and public health measures

Measuring timeliness of reporting and .

timelines of public health measures

ILI / SARI form (Shkodra: New)

*Syndrome: ○ OR ◉ SARI ☐ STREET *Completion date: 03.10.2022 *Nr.Form.: 100SHEK0218

Socio-demographic data of the patient

*Name: | *Surname:

*Date of birth: 11.10.1963 | *Personal number:

*Gender: man | Phone number: 0698

If a pregnant woman?:

Permanent residential address

Municipality: Shkoder

City/Village: Roscommon

*Address: SALO HALILI

*Country: ALBANIA

Address - Travels during the last week

Municipality:

City/Village:

Address:

Country:

Work institution / Educational institution

Ins. of work / education: ROJE PRIVATE.

Municipality:

Address:

*Work performed: Officer

City/Village:

Country:

Clinical information

*Date of onset of clinical signs: 29.09.2022

*** *Clinical signs and symptoms:***

☑ fever	☐ Otitis	☐ dyspnea
☑ Rupture	☐ Diarrhea	☐ Muscular pain
☑ Headache	☐ Sore throat	☑ cough
☐ Shortness of breath		
T. maks C: 38	Others:	

Associated Diseases:

☐ S. Cardiovascular	☐ S.Renale	☐ S. Heparit
☐ S.Neurological	☐ Immune Disorders	☐ Diabetes
☐ S.Chronicle of the lungs	☐ Asthma	☐ Obesity
Other diseases:		

⊞	Data on vaccination - *Vaccine	Lot	PRODUCER	Dt. Vaccination	records
SIV	**Pfizer BionTech Comirnaty**	**FC5029**	**Pfizer-BioNTech**	**24.07.2021**	
SIV	**Pfizer BionTech Comirnaty**	**FC5029**	**Pfizer-BioNTech**	**14.08.2021**	

Determination of diagnosis and therapy

*** *Clinic diagnosis:***

☑ Suspected Covid19	☐ Febrile state	☑ Flu condition
☐ Respiratory failure	☐ Pneumonia	
Other:		

Therapy Antivirals:

Informacioni laboratorik

Arsyeja e testimit: ILI / SARI

*Nr.mostra	*Dt.mostra	*Lloji i mostrës	*Laboratori	*Analiza	Rezultati	Dt.rezultati	Patogjeni	Nr.Reg
EDKA57TR010222	01.02.2022	Tampon Nazal	ISHP N…	COV19 - rRT-PCR	Pozitiv	02.02.2022		026627(
EDKA57TR010222	01.02.2022	Tampon Nazal	ISHP N…	GRIP - rRT-PCR	Negativ	01.02.2022		266270

Personeli mjekësor raportues

*Sh.Epidemiologjisë: Tiranë

*Mjeku: Tana Muharrem Bregu

*Ins.shëndetësor: QSh Nr. 9

*Numri i regjistrit: 021457

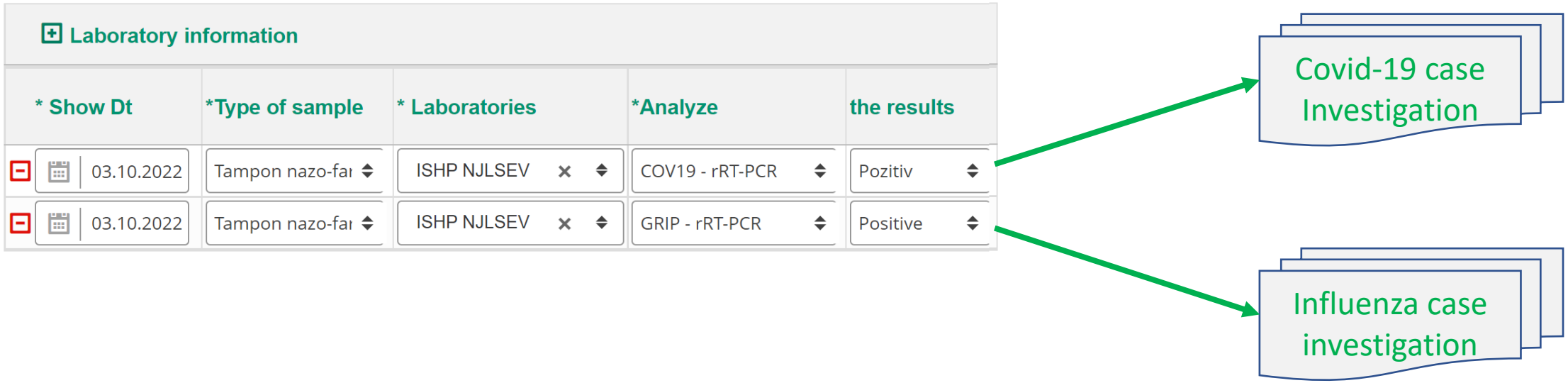
Telefon: 092556135

E-mail:

Kordinatat gjeografike

Differential Diagnosis and investigation

- Standard procedure testing for Covid-19 and Influenza, but other diseases can be tested such RSV etc.
- Disease specific case - based investigation for positive results
- Disease agnostic investigation for **unknown respiratory illness if results are negative**



Flexible & customizable Case Investigation

Info

-Address

-Gender

-Etc

Signs

- Clinical signs and symptoms

- Severity such as admission to intensive care, Intubation, Cpap

-Etc

Epi

-Exposure

-Travel

-Etc

Vaccine

- Vaccine history

Lab

-Sample type

- Diagnostic test

-Etc

Contact tracing

- Contact info

- Lab info

Public Health Measures

- Isolation

Quarantine

Reports of outbreak investigation

Etc.

Notification Form
ILI / SARI forms
Answer Analysis
event
inquiry
explosion
Multiple explosion
Document library
Ruda --Epi
Medisys - Media scanning
Health institution
doctor

inquiry | Inf.Pacienti | signs | Epidemiology | vaccinations | Inf.laboratory | Contacted | Measures taken | Document

*Epidemiology service: Durres

*Initiation start date: 13.07.2022

*Form number: 79DRDT2018312

Infectious disease notification forms

	Id	Department of Epidemiology / Health Ins	illness	Nr.Form.	Date of completion	Name	LAST	birthday	Forms	
	859043	Durres / Laboratory DSHP Durres (Laboratory)	COVID-19	79DRDT2018312	12.07.2022			25.03.1995	Notification Form	

Contact person of an existing investigation

	Id	Contact name	Last name contact	gender	Birthday	Nr.personal	Address

The suspect of an existing outbreak

	Id	explosion	Person's name	Adjective person	gender	Birthday	Nr.personal	Address

Event related to this investigation

	Id	Registration service	Dt. reporting	The subject of the event

*The disease: COVID-19

Kodi: 88

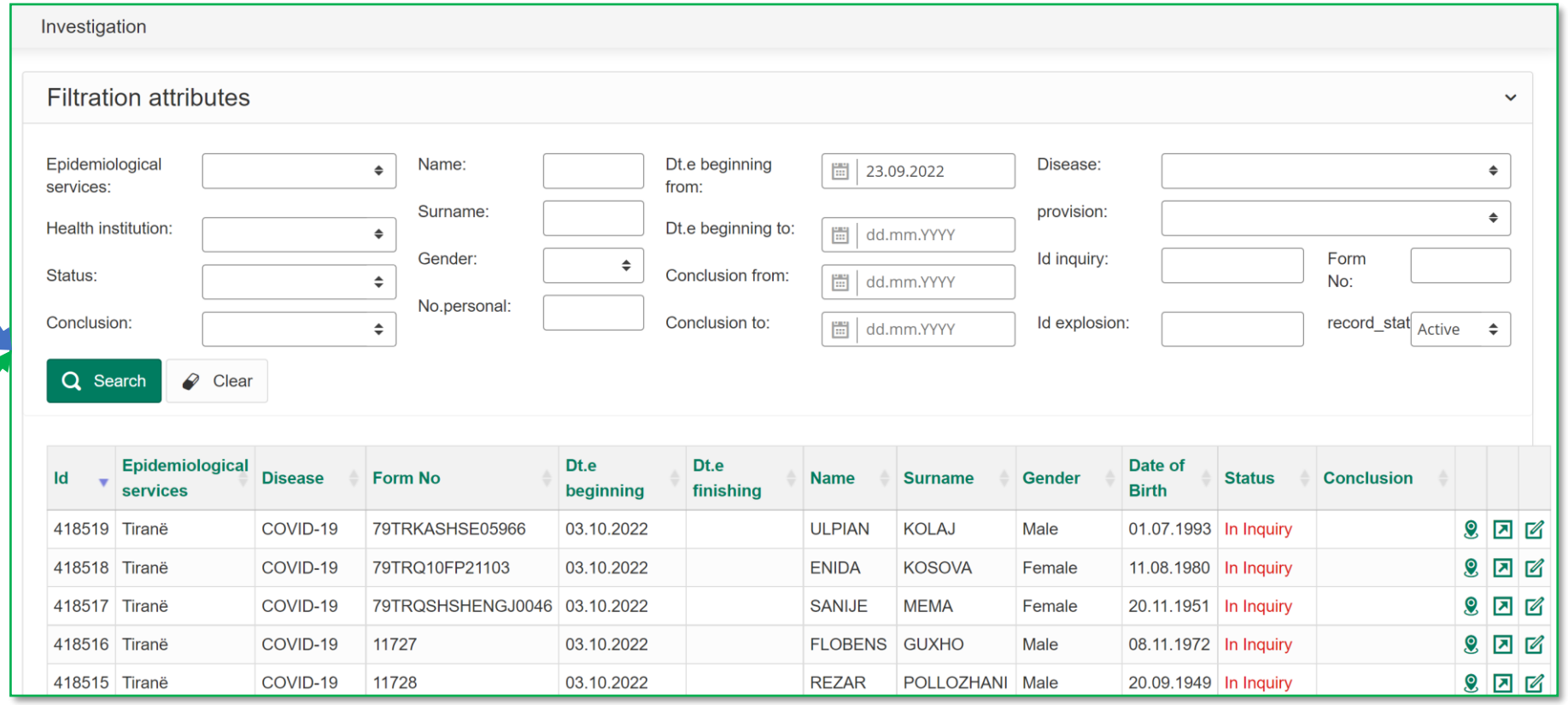
Enhancing surveillance

Disease notification form Covid-19

Disease notification form Influenza

Disease investigation for unknown respiratory virus

ILI/SARI
Covid-19 & Influenza



Id	Epidemiological services	Disease	Form No	Dt.e beginning	Dt.e finishing	Name	Surname	Gender	Date of Birth	Status	Conclusion
418519	Tiranë	COVID-19	79TRKASHSE05966	03.10.2022		ULPIAN	KOLAJ	Male	01.07.1993	In Inquiry	
418518	Tiranë	COVID-19	79TRQ10FP21103	03.10.2022		ENIDA	KOSOVA	Female	11.08.1980	In Inquiry	
418517	Tiranë	COVID-19	79TRQSHSHENGJ0046	03.10.2022		SANIJE	MEMA	Female	20.11.1951	In Inquiry	
418516	Tiranë	COVID-19	11727	03.10.2022		FLOBENS	GUXHO	Male	08.11.1972	In Inquiry	
418515	Tiranë	COVID-19	11728	03.10.2022		REZAR	POLLOZHANI	Male	20.09.1949	In Inquiry	

Enhancing data integration quality check integration and analysis

418512	Tiranë	COVID-19	11725	03.10.2022		SARA
418511	Tiranë	COVID-19	11726	03.10.2022		GAFURR
418510	Tiranë	COVID-19	1534	03.10.2022		ALBANA

← 1 2 3 4 5 →

records on page: 10

+Data Export

PDF DOC XLS CVS HTML The attributes of the investigation

History of Vaccines Laboratory information Contacts label Vaccinated contacts

Timeliness indicators

- **Timeliness of detection**

- Data lag between date of event reporting and dated of disease notification
- Data lag between date of beginning of clinical signs and the date of first health visit
- Data lag between date of beginning of clinical signs and date of laboratory results

- **Timeliness of response**

- Data lag between date of event reporting and date of disease investigation
- Data lag between date of lab sample arrival and date of lab results
- Data lag between date of disease notification and date of disease/outbreak investigation
- Data lag between date of disease notification and dates of contacts tracing and investigation
- Data lag between date of disease notification and main public health measures

Flexibilities and Challenges

- Adding clinical or epi datain the system according to needs as disease is evolving.
- Detailed disease investigation data related to SARI syndromic case data and detailed severity data
- Lab data and vaccination data linked with SARI syndrome and case investigation
- Daily quality check – misisng information etc
- Weekly quality check – duplication, completion of information
- Timely quality check of timeliness of detection
- Timeliness indicator reports

- Investigaton form to be completed within a week by a clinician
- Linking SARI data and Investigation data in one export data base to allow analyses
- Selecting the type of system for all data integration and analyses
- Getting used with digitalization and behaviour change

Thanks for their support

- CDC/USA
- Ending pandemics
- WHO Euro
- Epiconcept
- ECDC
- SECID
- MoH/Albania

Thank you

Stages of new integrated ILI/SARI surveillance

- Since Decemeber 2020 **dual testing SARS-CoV-2 and Influenza for ILI/SARI sites**
- From December 2020 until 23 March 2021 – paper based system and EPINFO database
- **From 23 March 2022 a fully digitalized ILI/SARI surveillance integrated into a web based (SISI) platform**
- **ILI/SARI linked with laboratory information system with automatic exchange of testing and results**
- **ILI/SARI linked with Immunization information system** with automatic exchange of information related to name of vaccine, dates of vaccinations and according to vaccines and vaccination schedule.
- Since November 2022 – indicator and syndromic base reports, timeliness quality reports , collaboration with Epiconcept for improving quality reports