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Bundesamt für Gesundheit BAG
Office fédéral de la santé publique OFSP
Ufficio federale della sanità pubblica UFSP
Federal Office of Public Health FOPH

Consequences of Covid-19: new insights

Covid-19: a new role of Seintinel Surveillance

SWISS PUBLIC HEALTH CONFERENCE, Lausanne 2023

9/11/2023

SPH-Conference 2023 – Covid-19: role of sentinel
surveillance Mirjam Mäusezahl

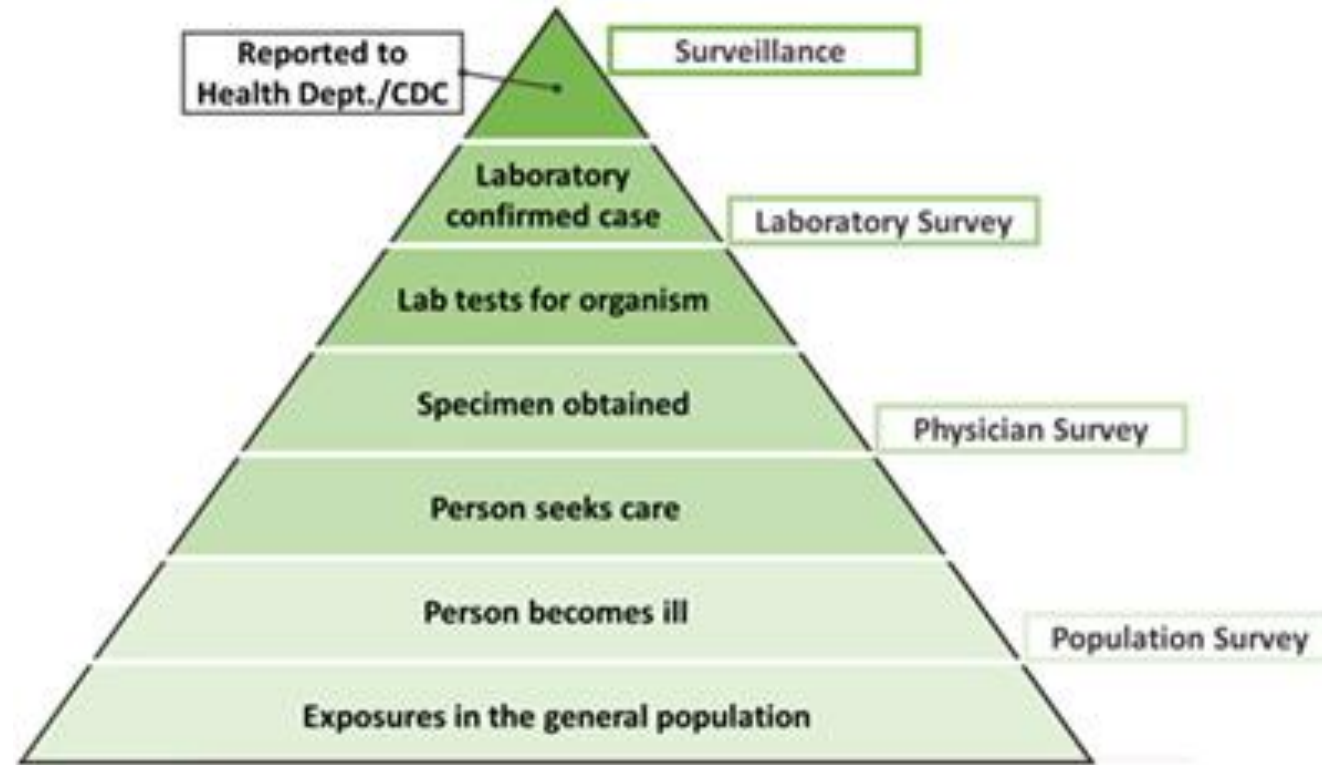


Public Health Surveillance

- Monitoring
- Prevention
- Disease Control at individual and population level
- Outbreak detection & control
- Pandemic preparedness
- Impact evaluation
- Information & Education
- Research
- Legal basis: Epidemics Law (818.101) and Ordonnances

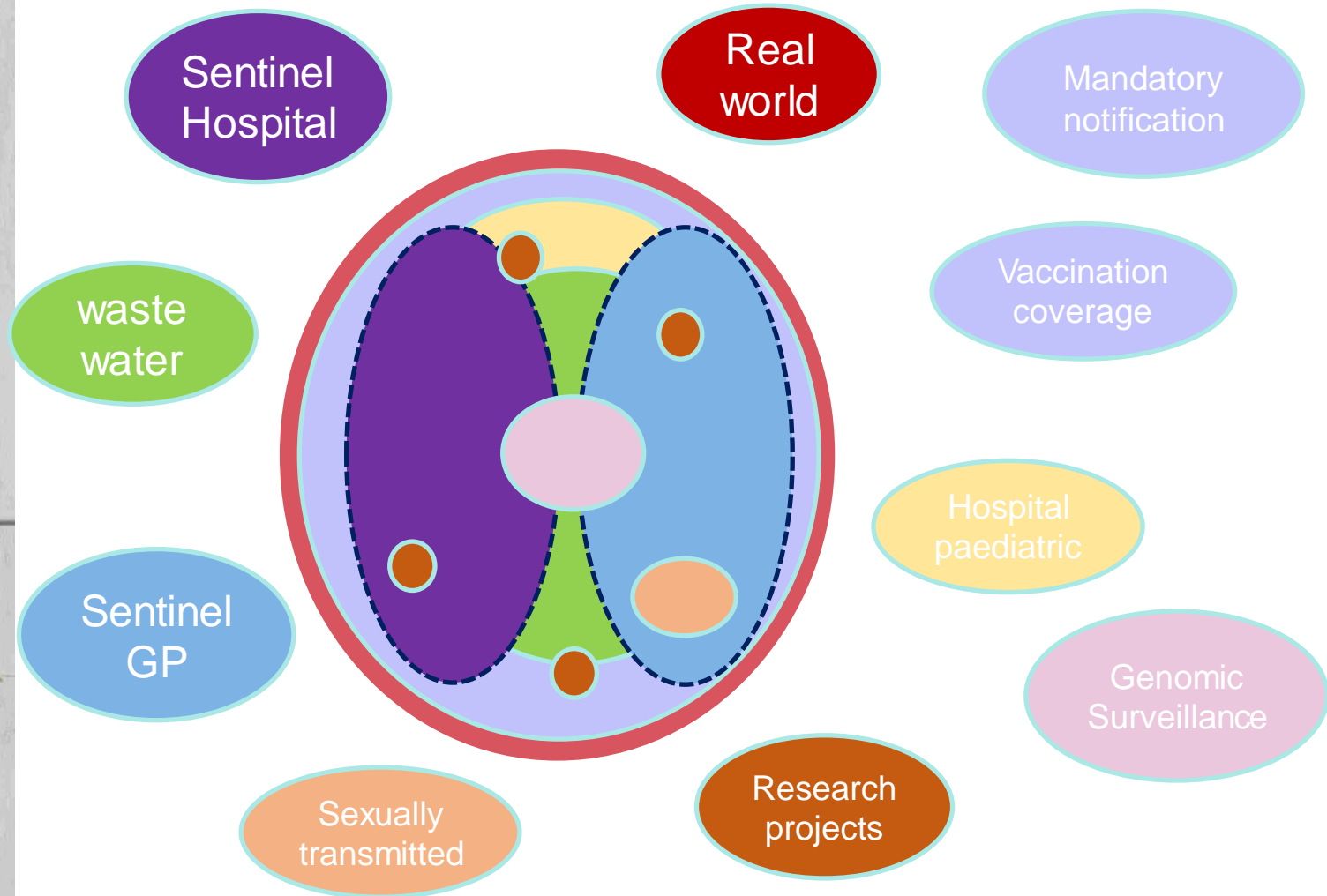


Disease Pyramid





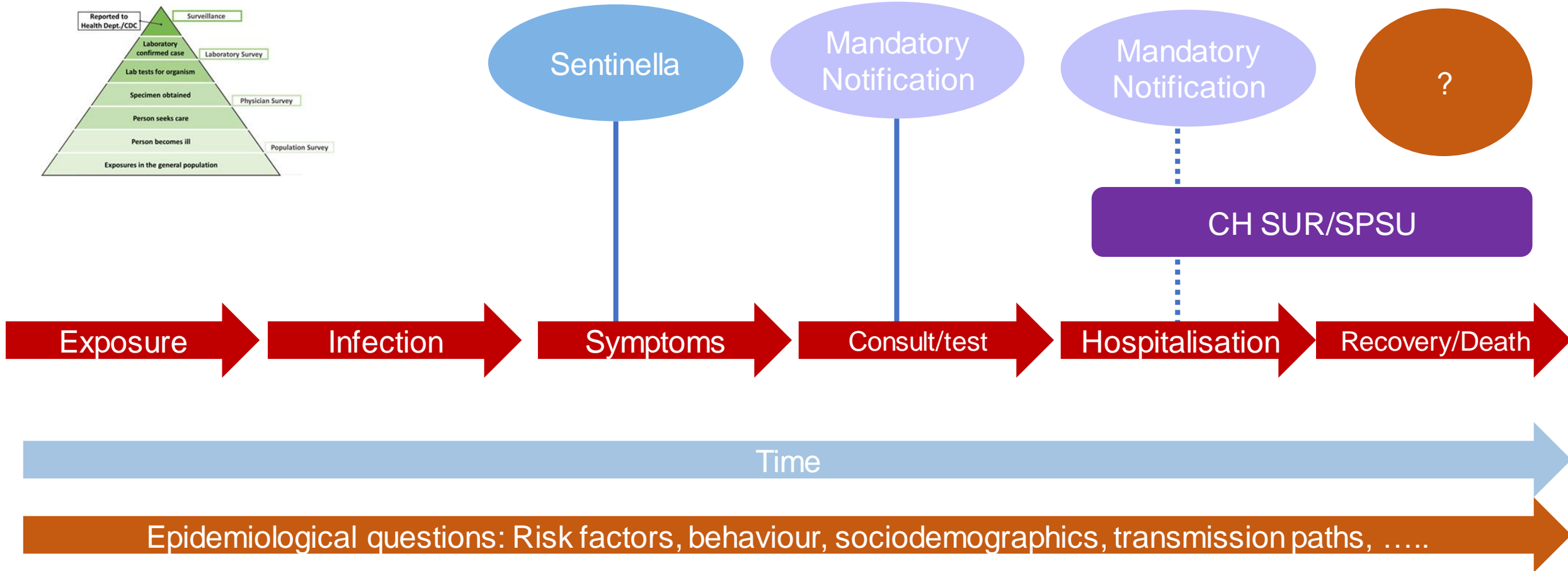
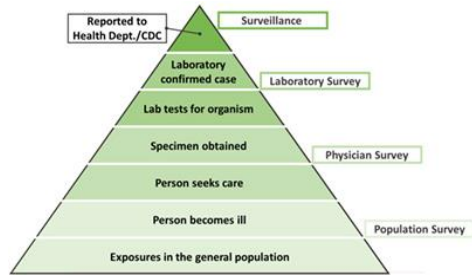
Public Health Surveillance System





Surveillance along the disease path

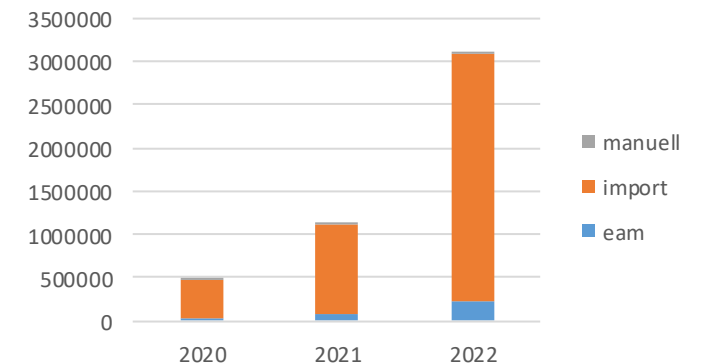
Need for different data sources





The role of Sentinel Surveillance during the pandemic

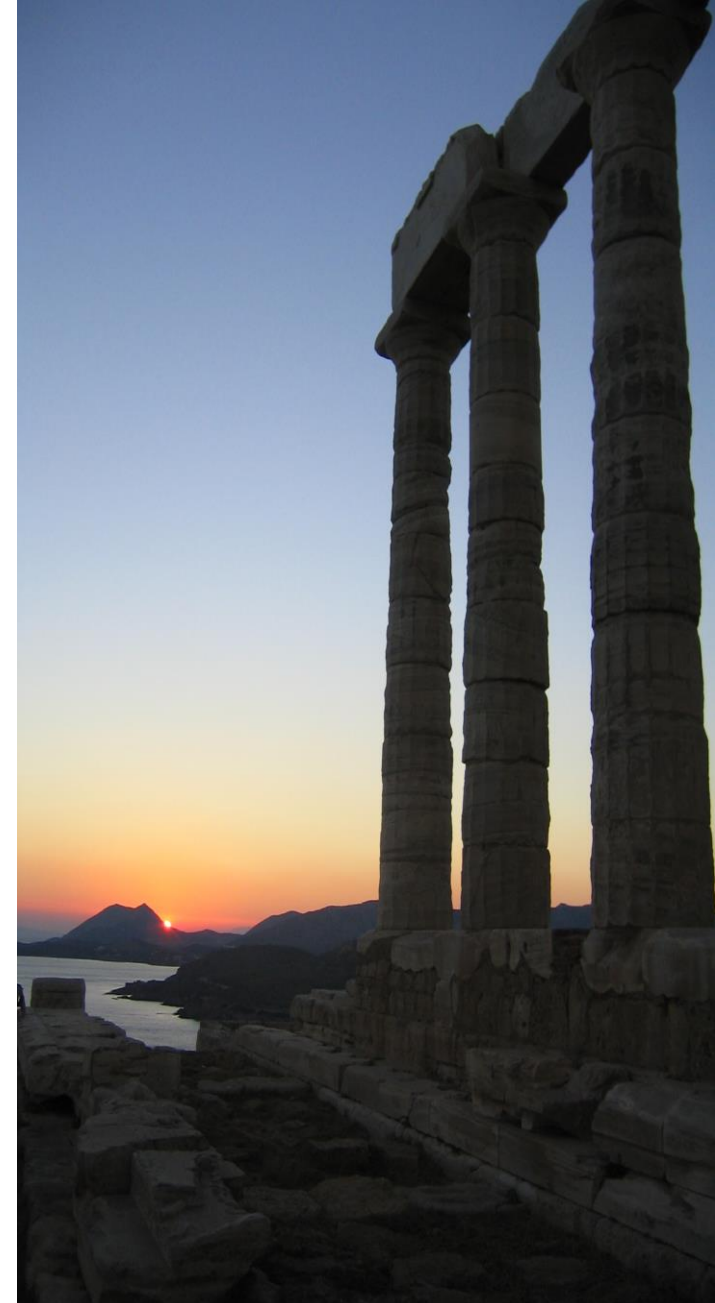
- To monitor diseases that are too frequent for mandatory notification
- To catch suspected cases that are not routinely tested
- To monitor virus circulation when testing behaviour changes
- To evaluate outcomes and epidemiological determinants for severe disease





Sentinel System on 3 pillars

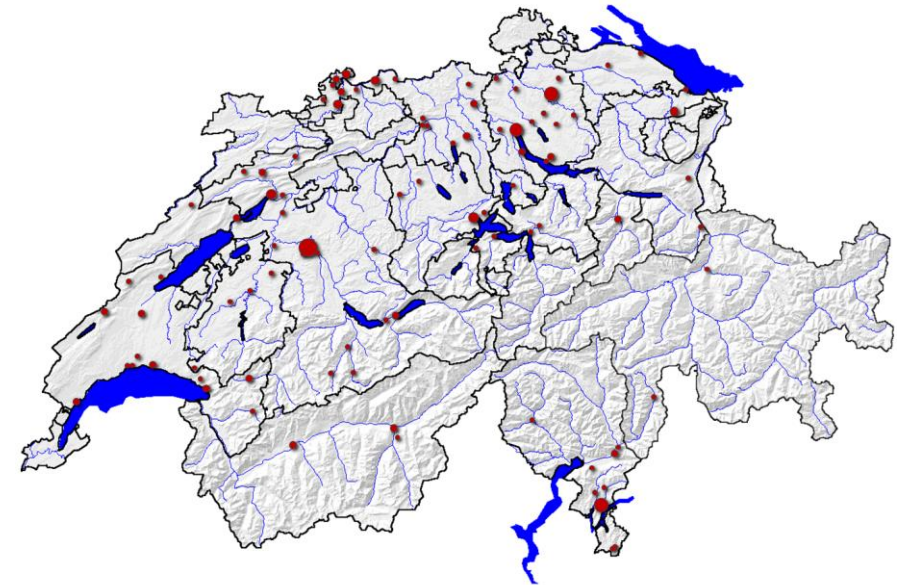
- Sentinella – GP → catch those with «mild» disease
- Hospital Surveillance – CH SUR → outcomes, determinants of severity
- Wastewater Monitoring → virus circulation when testing behaviour is fluctuating





Sentinella

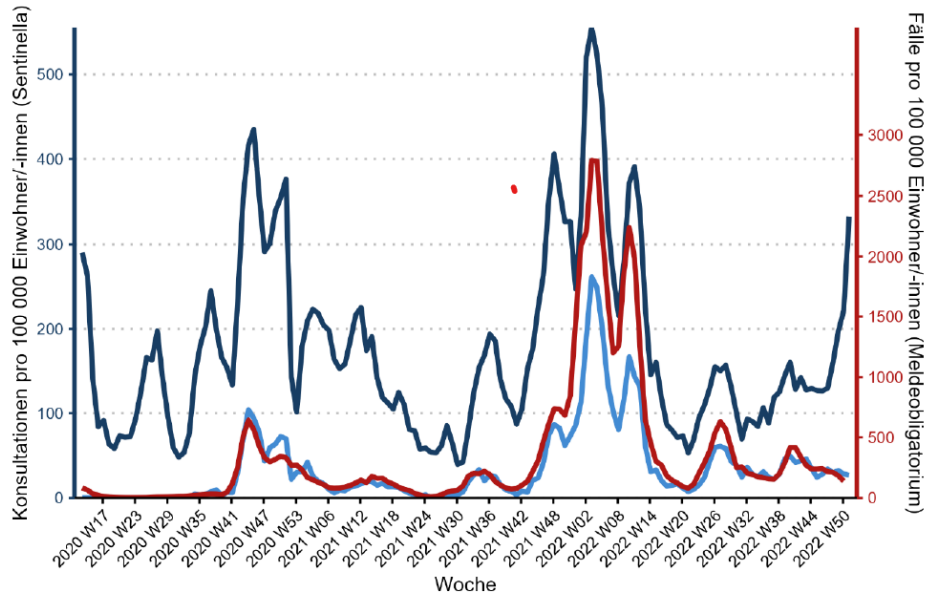
- Founded in 1986
- About 170 reporting GPs (~2% of Swiss general practitioners)
- Weekly reporting on communicable and other common diseases
- General practitioners including paediatricians
- Voluntary participation
- Annual financial compensation of the participants
- Anonymous regarding patient data





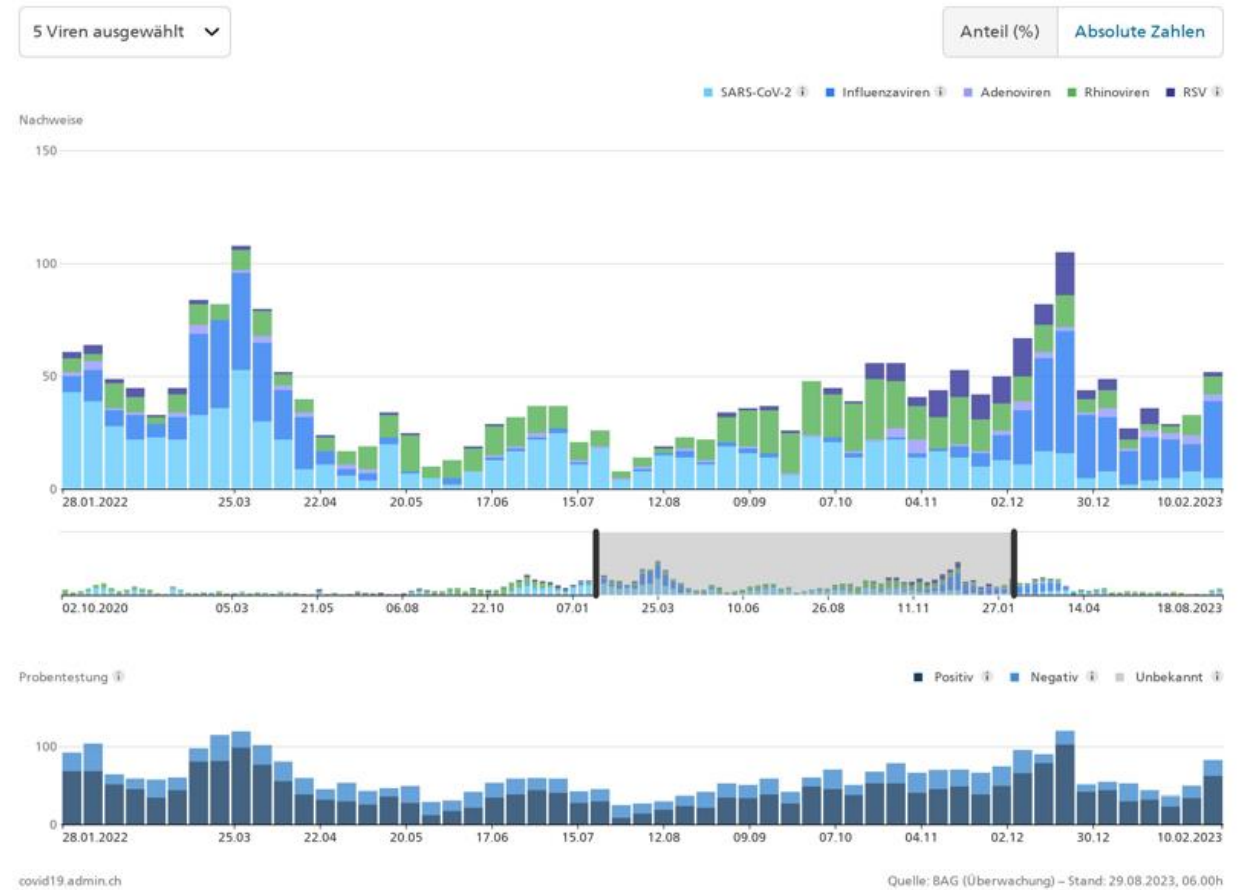
Sentinella – Data on Covid-19

Outlook: Study on Long Covid, extension to other respiratory infections and viruses



- Konsultationen mit Covid-19 Verdacht (Sentinella)
- Konsultationen mit Covid-19 Verdacht und positivem Testresultat (Sentinella)
- Bestätigte Covid-19 Fälle (Meldeobligatorium)

BAG, Datenstand: 2022-12-27





Sentinella GENERAL PRACTITIONERS WANTED!

Sentinella is looking for participating GPs

- Participate in Sentinella and help to monitor communicable and other diseases
- The participation in the Sentinella declaration system is financially reimbursed
- Studies on acute respiratory infection (ARI) and influenza-like illness (ILI), Pertussis, Mumps, Lyme Borreliose, antibiotic prescription in primary care, alcohol abuse, multi morbidity,
- Be part of the scientific community

Open Access Research
BMJ Open Prevalence of multimorbidity in general practice: a cross-sectional study within the Swiss Sentinel Surveillance System (Sentinella)

Sophie Excoffier,¹ Lilli Herzig,² Alexandra A N'Goran,² Anouk Déruaz-Luyet,² Dagmar M Haller¹

- **Interested? Contact the Sentinella Administration sentinella@bag.admin.ch or visit sentinella.ch**

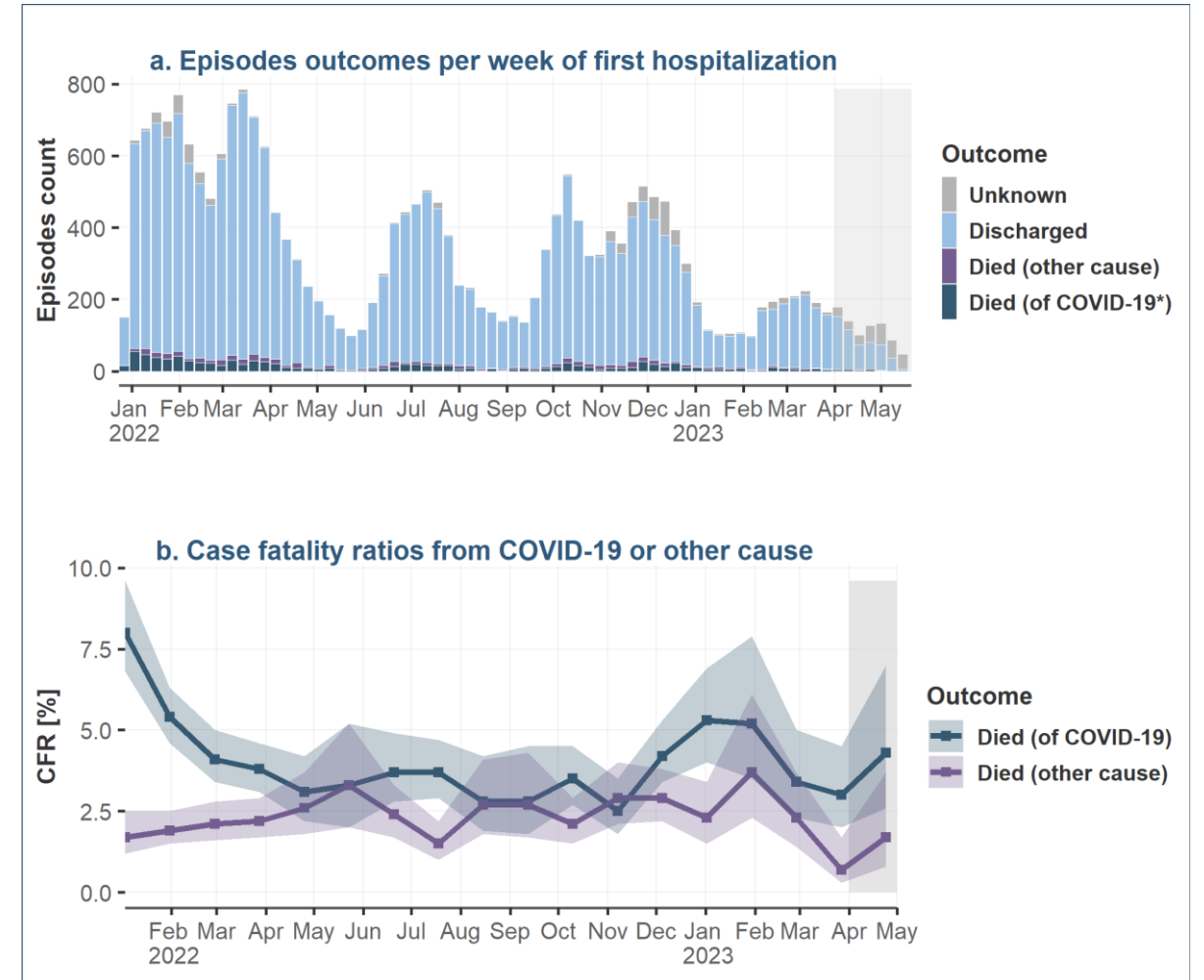
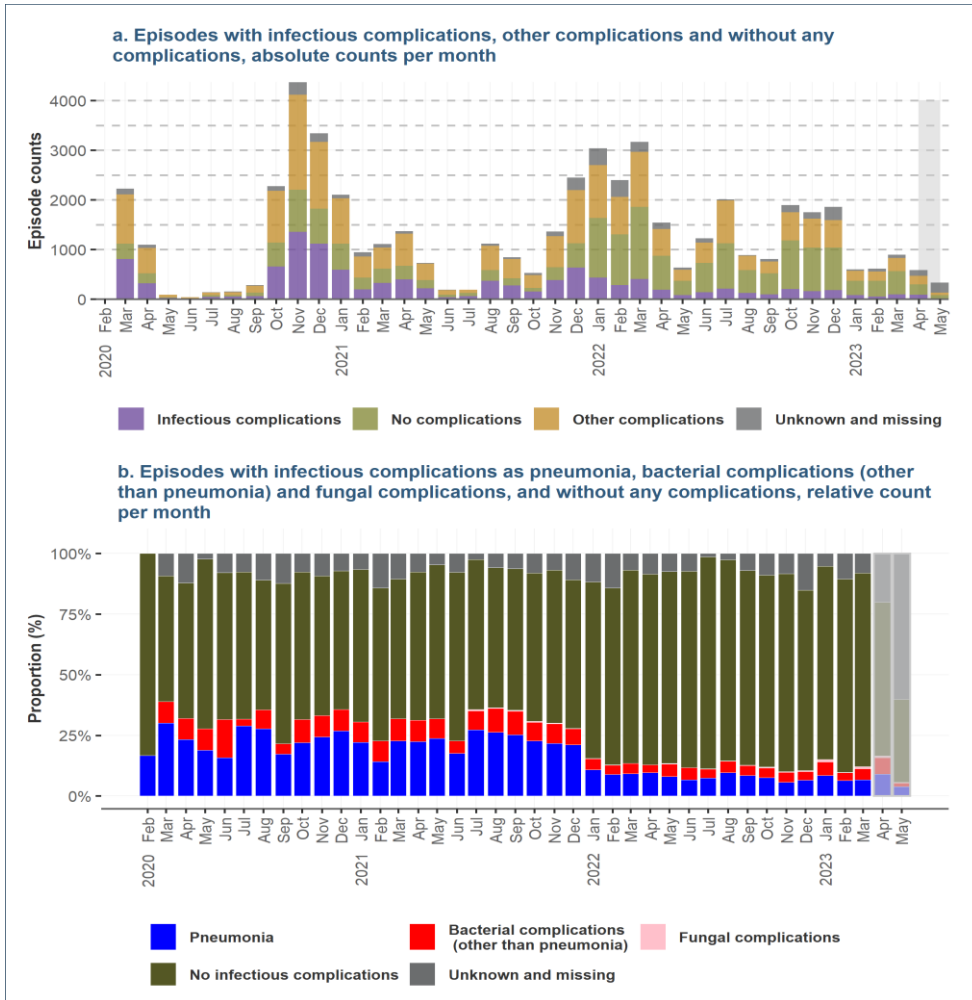


Hospital Sentinel Surveillance

- Founded in 2018, HUG-UNIGE-FOPH
- Initial Project Influenza
- Surveillance of Covid-19 since March 1st 2020
- Currently 18 participating hospitals
- [Hospital-based surveillance of COVID-19 in Switzerland \(unige.ch\)](https://unige.ch)



Hospital Sentinel Surveillance CH-SUR, Data on Covid-19

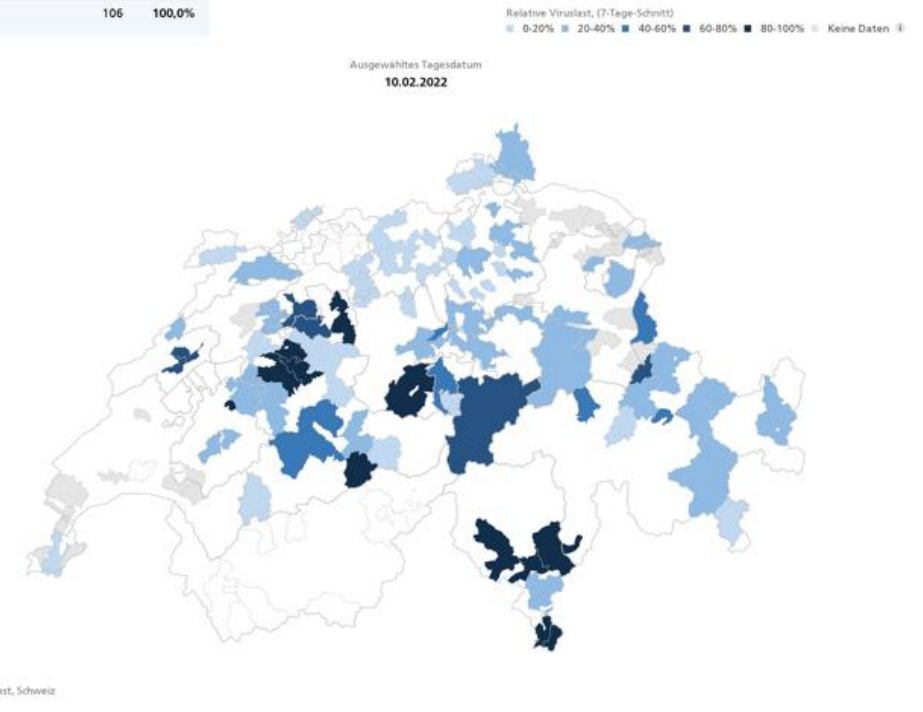




Wastewater – Data on SARS-CoV-2

Schweiz und Liechtenstein 10.02.2022

Relative Viruslast	Anzahl ARAs	Anteil ARAs
0-20%	32	30,2%
20-40%	28	26,4%
40-60%	6	5,7%
60-80%	5	4,7%
80-100%	12	11,3%
Keine Daten	23	21,7%
Total	106	100,0%



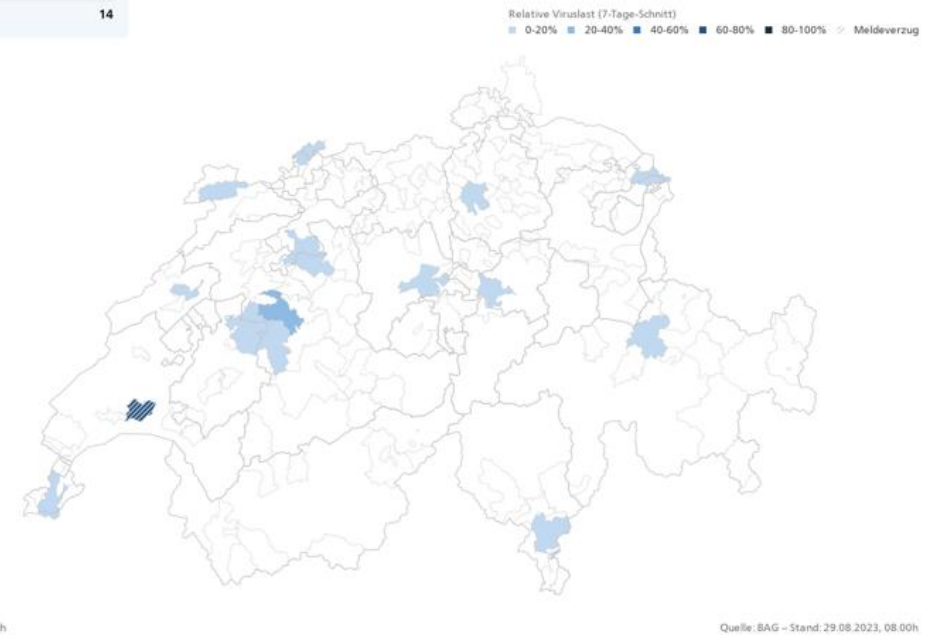
Outlook: Monitoring of other viruses



Wastewater – Data on SARS-CoV-2

Schweiz und Liechtenstein

Relative Viruslast	Anzahl ARAs
0-20%	12
20-40%	1
40-60%	0
60-80%	1
80-100%	0
Total	14



Outlook: Monitoring of other viruses



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Thank you for your interest.