Weekly Evidence Surveillance April 26th, 2024

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26/04/2024	ECDC	Rapid Outbreak Assessment: Prolonged multi-country outbreak of Listeria monocytogenes ST1607 linked to smoked salmon products	25/04/2024	A prolonged genomic cluster of 20 human Listeria monocytogenes ST1607 infections has been reported to the European Centre for Disease Prevention and Control, with cases identified in Denmark (17), Germany (1), and Italy (2) since 2019. The number of cases has sharply increased after 2021. The most recent case was reported in March 2024 in Denmark, indicating an ongoing risk of further infections. Of 20 listeriosis cases, five have died (one due to another cause than L. monocytogenes infection), indicating high severity of infection particularly among elderly people with underlying chronic conditions.
26/04/2024	ECDC	Prevention of hepatitis B and C in the EU/EEA, 2024 Surveillance and monitoring	25/04/2024	The decline in the reported number of new transmissions of hepatitis B virus (HBV) and hepatitis C virus (HCV) infections across European Union (EU) and European Economic Area (EEA) countries has continued, but the burden remains high, with an estimated 5.4 million people with chronic HBV and HCV infection in the region.
26/04/2024	ECDC	Monitoring of the responses to the hepatitis B and C epidemics in EU/EEA countries, 2023	25/04/2024	The European Centre for Disease Prevention and Control (ECDC) has developed a monitoring system for hepatitis B and C to support countries in the European Union (EU) and European Economic Area (EEA) in monitoring responses to their epidemics of hepatitis B and C. The monitoring system is closely aligned with the indicators and hepatitis elimination targets of the Global Health Sector Strategy (GHSS) and the World Health Organization (WHO) European Region Action Plan. In this report, we provide an overview of the data reported by countries in the EU and EEA in 2023 to describe progress towards the 2025 interim targets for hepatitis elimination as outlined in the WHO European Region Action Plan 2022–2030.
26/04/2024	ECDC	Hepatitis C - Annual Epidemiological Report for 2022	25/04/2024	In 2022, 23 273 cases of hepatitis C were reported in 29 EU/EEA countries. Excluding countries that only reported acute cases, 23 249 cases were notified, corresponding to a crude rate of 6.2 cases per 100 000 population. Of the cases reported, 6% were acute, 34% chronic, and 57% were unknown. Three percent could not be classified due to an incompatible data format. Hepatitis C was more commonly reported among men than women, with a

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				male-to-female ratio of 1.6:1. The most affected age group among males was
				35–44 years, and among females 55–64 years. The most common
				transmission mode was injecting drug use, which accounted for 53% of acute
				cases and 64% of chronic cases with complete information on transmission
				route.
26/04/2024	ECDC	Hepatitis B - Annual	25/04/2024	Hepatitis B is a major public health threat worldwide. In 2022, the global
		Epidemiological Report for		prevalence was estimated at 257 million people living with HBV infection
		2022		(3.2%), with an estimated incidence of 1.5 million new cases per year. In
				2019, 820 000 deaths were attributable to hepatitis B globally. In the
				European Union/European Economic Area (EU/EEA), the disease burden
				remains high, with an estimated 3.6 million people living with CHB and 64 000
				deaths attributed to chronic viral hepatitis in 2015.
26/04/2024	ECDC	Measles and Rubella Monthly	22/04/2024	This report provides an overview of measles and rubella cases reported to
		<u>Report</u>		ECDC through The European Surveillance System (TESSy).
26/04/2024	<u>WHO</u>	Fourth WHO consultation on	19/04/2024	The Global Tuberculosis Programme of the World Health Organization has the
		the translation of tuberculosis		mandate to develop and disseminate evidence-based policy for tuberculosis
		research into global policy		prevention, diagnosis, treatment, and care. Regular review of evidence, and
		<u>guidelines</u>		assessment of country needs for policy across the cascade of care is part of
				its core function. In this regard, GTB organized a fourth consultation
				assembling scientists, public health experts, partners, civil society, and
				countries to exchange views on emerging areas of need for evidence and for
				global TB policy guidance to achieve the goals and targets of the WHO End TB
				Strategy. The present report summarizes the outcome of this meeting.
26/04/2024	<u>WHO</u>	The selection and use of	22/04/2024	The 24th meeting of the WHO Expert Committee on Selection and Use of
		essential medicines (2023) -		Essential Medicines was held in Geneva, Switzerland, from 24 to 28 April
		<u>TRS 1049</u>		2023. The Committee considered 85 applications proposing additions,
				changes and deletions of medicines, medicine classes and formulations on
				the Model Lists of Essential Medicines. The Committee evaluated the
				scientific evidence for effectiveness, safety and cost- effectiveness of the
				medicines in question. The Committee also considered a review of the age-
				appropriateness of formulations of essential medicines for children, the

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				AWaRe classification of antibiotics, and other matters relevant to the
				selection and use of essential medicines.
26/04/2024	<u>WHO</u>	Global Malaria Programme	23/04/2024	As WHO's technical department for malaria, the Global Malaria Programme
		operational strategy 2024-		has an important role to play in leading the global response against this
		<u>2030</u>		disease. Through its direct actions and network, it has the potential to shape
				the malaria ecosystem and achieve impact at country level. With this in mind,
				the Global Malaria Programme has developed an operational strategy
				outlining its priorities for the period 2024–2030 and the 4 strategic levers to
				control and eliminate malaria that are decisively within the Programme's
				mandate: norms and standards, new tools and innovation, strategic
				information for impact, and leadership. The strategy describes how the Global
				Malaria Programme will also transform by collaborating more effectively with
				other programmes, regional and country offices and partners, guided by
				lessons learned from WHO's Thirteenth General Programme of Work (GPW13)
				and the GPW14 priorities.
26/04/2024	<u>WHO</u>	Risk communication and	23/04/2024	This toolkit is a comprehensive set of practical tools and resources designed
		community engagement		to support country-level risk communication and community engagement
		readiness and response		(RCCE) practitioners, decision-makers, and partners to plan and implement
		toolkit: mpox		readiness and response activities for mpox (previously known as monkeypox).
				The toolkit contains: information about mpox; RCCE considerations for how to
				approach key issues during mpox outbreaks; tools for understanding the
				context in which mpox outbreaks occur; methods for collecting data to inform
				strategy development and bring evidence into planning and implementation of
				activities; case studies; and links to existing RCCE tools and training. It is one
				of a suite of toolkits on RCCE readiness and response to a range of disease
				and response areas.
26/04/2024	<u>WHO</u>	Investing to defeat meningitis	23/04/2024	Defeating Meningitis by 2030 – A Global Road Map sets out a plan to tackle the
		and beyond		main causes of acute bacterial meningitis (meningococcus, pneumococcus,
				Haemophilus influenzae and group B streptococcus). This innovative initiative
				addresses meningitis not only as an infectious disease that can often be
				prevented and treated, but also with the absolute need for support and care
				for people living with disabling sequelae after an episode of meningitis. The

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				three visionary goals are to: (i) eliminate epidemics of bacterial meningitis; (ii)
				reduce cases of vaccine preventable bacterial meningitis by 50% and deaths
				by 70%; (iii) reduce disability and improve quality of life after meningitis of any
				cause. To achieve these goals, World Health Organization (WHO)
				recommends several key activities and milestones across five pillars of the
				road map: prevention and epidemic control; diagnosis and treatment; disease
				surveillance; support and care for people affected by meningitis, and
				advocacy and engagement.
26/04/2024	<u>WHO</u>	The mRNA Vaccine	19/04/2024	The WHO Council on the Economics of Health for All recommends that the
		Technology Transfer Hub: a		mRNA TT Programme is considered a common good for epidemic
		pilot for transformative		preparedness, driven by SouthSouth collaboration and pursuing the shared
		change for the common		mission of health security, centred around equity and local resilience.
		good?		
26/04/2024	<u>WHO</u>	R21/Matrix-M malaria	22/04/2024	Malaria is one of the leading causes of childhood illness and deaths in Africa.
		vaccine: Evidence to		All malaria control interventions provide only partial protection against
		recommendations		malaria and the highest impact is achieved when interventions are
		framework, 2023		strategically used together. The RTS,S/AS01 malaria vaccine was
				recommended by WHO in 2021 to prevent malaria in children living in regions
				with moderate-to-high P. falciparum malaria transmission. As of August 2023,
				over 1.8 million children have received at least 1 dose of the RTS,S/AS01
				vaccine through phased introductions that began in 2019 in Ghana, Kenya,
				and Malawi. Results from pilot evaluations in those three countries
				(recommended by WHO in 2015) affirm the malaria vaccine is feasible to
				deliver, is safe and reduces childhood malaria, hospitalizations, and deaths.
26/04/2024	<u>WHO</u>	GRADE tables for malaria	22/04/2024	GRADE tables for malaria vaccines, 2023
		vaccines, 2023		
26/04/2024	<u>WHO</u>	OpenWHO IPC training	23/04/2024	This catalog presents all online training courses related to IPC, available on
		courses catalog		OpenWHO. The IPC channel hosts general courses designed for all health
				workers, as well as more advanced courses specific to IPC focal points. This is
				an interactive document allowing direct access to the desired training.
26/04/2024	<u>WHO</u>	Polio Transition Monitoring	23/04/2024	The Polio Transition Monitoring and Evaluation (M&E) framework has been
		and Evaluation Framework		designed to monitor progress towards achieving the strategic and operational

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				outcomes of the post-2023 Strategic Framework for Polio Transition, as
				outlined in the Global Vision to use Polio Investments to Build Strong,
				Resilient and Equitable Health Systems, and Regional Strategic Plans for the
				WHO African, Eastern Mediterranean and South-East Asia Regions. It aims to
				support an efficient and effective polio transition process through both
				process and outcome-based monitoring. The framework promotes
				accountability and strives for a harmonized approach to monitoring and
				evaluating polio transition at the country, regional and global level.
26/04/2024	<u>WHO</u>	Climate and Health Financing	25/04/2024	This slide deck represents a qualitative assessment of country-determined
		Needs		needs and opportunities around mobilizing financing for climate and health
				solutions deployment.
26/04/2024	<u>CDC</u>	CDC Announces Important	22/04/2024	New Heat and Health Initiative, developed in response to increased health
		Advances in Protecting		risks from heat exposure, aims to improve American's ability to stay safe
		Americans from Heat		during heat events
26/04/2024	<u>CDC</u>	Quick Start Guide for	22/04/2024	Quick Start Guide for Clinicians on Heat and Health
		Clinicians on Heat and Health		
26/04/2024	<u>CDC</u>	CDC clinical guidance Heat	22/04/2024	CDC clinical guidance helps clinicians keep at-risk individuals safe when
		<u>Health</u>		temperatures rise.
26/04/2024	<u>CDC</u>	SARS-CoV-2 Viral Shedding	25/04/2024	As population immunity to SARS-CoV-2 evolves and new variants emerge, the
		and Rapid Antigen Test		role and accuracy of antigen tests remain active questions. To describe recent
		Performance — Respiratory		test performance, the detection of SARS-CoV-2 by antigen testing was
		Virus Transmission Network,		compared with that by reverse transcription–polymerase chain reaction (RT-
		November 2022–May 2023		PCR) and viral culture testing during November 2022–May 2023. Participants
				who were enrolled in a household transmission study completed daily
				symptom diaries and collected two nasal swabs (tested for SARS-CoV-2 via
				RT-PCR, culture, and antigen tests) each day for 10 days after enrollment.
				Among participants with SARS-CoV-2 infection, the percentages of positive
				antigen, RT-PCR, and culture results were calculated each day from the onset
				of symptoms or, in asymptomatic persons, from the date of the first positive
				test result. Antigen test sensitivity was calculated using RT-PCR and viral
				culture as references. The peak percentage of positive antigen (59.0%) and
				RT-PCR (83.0%) results occurred 3 days after onset, and the peak percentage

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				of positive culture results (52%) occurred 2 days after onset. The sensitivity of
				antigen tests was 47% (95% CI = 44%–50%) and 80% (95% CI = 76%–85%)
				using RT-PCR and culture, respectively, as references. Clinicians should be
				aware of the lower sensitivity of antigen testing compared with RT-PCR, which
				might lead to false-negative results. This finding has implications for timely
				initiation of SARS-CoV-2 antiviral treatment, when early diagnosis is essential;
				clinicians should consider RT-PCR for persons for whom antiviral treatment is
				recommended. Persons in the community who are at high risk for severe
				COVID-19 illness and eligible for antiviral treatment should seek testing from
				health care providers with the goal of obtaining a more sensitive diagnostic
				test than antigen tests (i.e., an RT-PCR test).
26/04/2024	<u>CDC</u>	Investigation of Presumptive	25/04/2024	HIV transmitted through cosmetic injection services via contaminated blood
		HIV Transmission Associated		has not been previously documented. During summer 2018, the New Mexico
		with Receipt of Platelet-Rich		Department of Health (NMDOH) was notified of a diagnosis of HIV infection in
		Plasma Microneedling Facials		a woman with no known HIV risk factors who reported exposure to needles
		at a Spa Among Former Spa		from cosmetic platelet-rich plasma microneedling facials (vampire facials)
		Clients — New Mexico, 2018-		received at a spa in spring 2018. An investigation of the spa's services began
		2023		in summer 2018, and NMDOH and CDC identified four former spa clients, and
				one sexual partner of a spa client, all of whom received HIV infection
				diagnoses during 2018–2023, despite low reported behavioral risks
				associated with HIV acquisition. Nucleotide sequence analysis revealed
				highly similar HIV strains among all cases. Although transmission of HIV via
				unsterile injection practices is a known risk, determining novel routes of HIV
				transmission among persons with no known HIV risk factors is important. This
				investigation identified an HIV cluster associated with receipt of cosmetic
				injection services at an unlicensed facility that did not follow recommended
				infection control procedures or maintain client records. Requiring adequate
				infection control practices and maintenance of client records at spa facilities
				offering cosmetic injection services can help prevent the transmission of HIV
				and other bloodborne pathogens and ensure adequate traceback and
				notification in the event of adverse clinical outcomes, respectively.

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26/04/2024	<u>CDC</u>	Use of Ebola Vaccines —	25/04/2024	Ebola virus disease (Ebola) is a rare but severe illness in humans, with an
		Worldwide, 2021–2023		average case fatality rate of approximately 50%. Two licensed vaccines are
				currently available against Orthoebolavirus zairense, the virus that causes
				Ebola: the 1-dose rVSV Δ G-ZEBOV-GP (ERVEBO [Merck]) and the 2-dose
				regimen of Ad26.ZEBOV and MVA-BN-Filo (Zabdeno/Mvabea [Johnson &
				Johnson]). The Strategic Advisory Group of Experts on Immunization
				recommends the use of 1-dose ERVEBO during Ebola outbreaks, and in 2021,
				a global stockpile of ERVEBO was established to ensure equitable, timely, and
				targeted access to vaccine doses for future Ebola outbreaks. This report
				describes the use of Ebola vaccines and the role of the stockpile developed
				and managed by the International Coordinating Group (ICG) on Vaccine
				Provision during 2021–2023. A total of 145,690 doses have been shipped from
				the ICG stockpile since 2021. However, because outbreaks since 2021 have
				been limited and rapidly contained, most doses (139,120; 95%) shipped from
				the ICG stockpile have been repurposed for preventive vaccination of high-risk
				groups, compared with 6,570 (5%) used for outbreak response. Repurposing
				doses for preventive vaccination could be prioritized in the absence of Ebola
				banafits of the stocknile
26/04/2024	CDC	Infectious Diseases and	01/04/2024	Emerging Infectious Diseases Vol 30 No. 13 Supplement – Infectious
20/04/2024		Carceral Health	01/04/2024	Diseases and Carceral Health
26/04/2024	UKHSA	Integrated guidance on health	24/04/2024	Undated with April 2024 integrated guidance to include notification and
20/04/2024		clearance and the	2-1/0-1/202-1	advice on the discontinuation of the UKAP occupational health monitoring
		management of HCWs living		register.
		with BBVs (hepatitis B,		
		hepatitis C and HIV): April		
		2024		
26/04/2024	<u>UKHSA</u>	Escherichia coli (E. coli)	26/04/2024	The number of infections of Escherichia coli (E. coli) O157 reported in England
		O157: annual totals		and Wales.
26/04/2024	UKHSA	Health Protection Report	25/04/2024	HPR volume 18 issue 4: news (25 April 2024): M. chimaera infection
		<u>volume 18 (2024)</u>		associated with cardiopulmonary bypass: findings from a retrospective case

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				finding exercise Infection report: Invasive meningococcal infection in England (January to March 2023)
26/04/2024	<u>UKHSA</u>	Extreme cold temperatures in	25/04/2024	Results of a study to explore client and care worker risks during cold weather
		domiciliary care: the study		with a view to identifying best practice and incorporating this into advice and
				cold weather planning.
26/04/2024	<u>UKHSA</u>	New data show a rise in	24/04/2024	New data from the UK Health Security Agency (UKHSA), published ahead of
		travel-acquired malaria cases		World Malaria Day (25 April), show an increase in malaria diagnosed in
				England, Wales and Northern Ireland, with reported cases exceeding 2,000 for
				the first time since 2001. Cases were confirmed in individuals who had
				recently been abroad. The number of cases highlights the importance of
				taking precautions to minimise the risk of malaria when traveling abroad.
26/04/2024	<u>UKHSA</u>	Infectious disease	25/04/2024	The UK Health Security Agency's (UKHSA) Emerging Infections and Zoonoses
		surveillance and monitoring		team uses an integrated horizon scanning approach, which combines
		for animal and human health:		information on both human and animal health, to identify and assess
		summary December 2023		outbreaks and incidents of new and emerging infectious diseases, reported
				nationally and internationally. The emerging infection summaries provide an
				overview of incidents (new and updated) of public health significance, which
				are under close monitoring. The summaries are widely circulated within
				UKHSA, to the Department of Health and Social Care (DHSC), to colleagues
				working in animal health, and internationally.
26/04/2024	PH Ontario	Measles – Serology	25/04/2024	This page provides serological testing information for Measles at Public
				Health Ontario (PHO).
26/04/2024	PH Ontario	Mpox in Ontario: January 1,	24/04/2024	An increase in mpox activity has been observed in Ontario since mid-January
		2023 to March 31, 2024		2024 with a total of 32 confirmed cases in 2024 to the end of March
				(compared to only 33 confirmed cases in all of 2023). Only 34.8% of
				individuals who received one dose of an Imvamune® vaccine in Ontario have
				received their second dose. PHUs in Ontario should continue to promote a
				two-dose Imvamune® vaccination series to those eligible. Individuals with a
				previous history of laboratoryconfirmed mpox infection or history of
				completing a two dose Imvamune® vaccine series do not require a booster
				vaccine.

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26/04/2024	<u>HPRA</u>	HPRA Drug Safety Newsletter	26/04/2024	The latest edition of the HPRA newsletter includes important updates to
		Edition 115		support the safe and appropriate use of the following medicines:
				Valproate (Epilim): New precautionary measures regarding the potential risk
				of neurodevelopmental disorders in children of fathers treated with valproate
				in the three months before conception
				NSAIDs: Updated recommendations on the use of non-steroidal anti-
				inflammatory drugs (NSAIDs) during pregnancy
				Cystic Fibrosis transmembrane conductance regulators (CFTRs): New
				warning on the risk of depression and related events associated with
				Kalydeco, Orkambi, Symkevi and Kaftrio
				Product information updates recommended by the EMA's Pharmacovigilance
				Risk assessment Committee (PRAC)
26/04/2024	<u>IDSA</u>	Climate Change and	15/04/2024	The 8 most recent years have been the warmest on record. In 2022, the global
		Contagion: The Circuitous		10-year average temperature soared to 1.15 °C above preindustrial levels. The
		Impacts From Infectious		climate change impacts from heat waves, floods, and droughts are more
		<u>Diseases</u>		apparent and direct when compared with the circuitous and indirect climate
				change impacts from infectious diseases. Yet, their contagious nature and
				epidemic potential pose a latent threat to public health, particularly to
				marginalized and vulnerable populations. These groups, despite contributing
				the least to greenhouse gas emissions, are disproportionately affected by the
				consequences of climate disruption. The transmission potential of many
				vector-, water-, and foodborne infections is determined by the nexus of
				climate hazards, vulnerability, and exposure. Some of these complex
				relationships are discussed in this article.
26/04/2024	<u>IDSA</u>	Circulating HBV RNA and	16/04/2024	Background - We evaluated long-term trajectories of circulating hepatitis B
		hepatitis B core-related		virus (HBV)-RNA and hepatitis B core-related antigen (HBcrAg) in persons with
		antigen trajectories in		and without hepatitis B surface antigen (HBsAg) loss during tenofovir therapy
		persons with HIV/HBV		in the Swiss HIV Cohort Study.
		coinfection and HBsAg loss		Methods - We included 29 persons with HIV (PWH) with HBsAg loss and 29
		on tenofovir therapy		matched PWH without loss. We compared HBV-RNA and HBcrAg decline and
				assessed the cumulative proportions with undetectable HBV-RNA and HBcrAg
				levels during tenofovir therapy using Kaplan-Meier estimates.

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				Results - HBsAg loss occurred after a median of 4 years (IQR 1 - 8). All
				participants with HBsAg loss achieved suppressed HBV-DNA and
				undetectable HBV-RNA preceding undetectable gHBsAg levels, whereas 79%
				achieved negative HBcrAg. In comparison, 79% of the participants without
				HBsAg loss achieved undetectable HBV-RNA and 48% negative HBcrAg. After
				two years on tenofovir, an HBV RNA decline ≥1 log10 copies/ml had 100%
				sensitivity and 36.4% specificity for HBsAg loss, whereas an HBcrAg decline
				≥1 log10 U/ml had 91.0% sensitivity and 64.5% specificity.
				Conclusions - HBV-RNA suppression preceded undetectable gHBsAg levels,
				and had high sensitivity but low specificity for HBsAg loss during tenofovir
				therapy in PWH. HBcrAg remained detectable in approximately 20% of
				persons with, and 50% of persons without HBsAg loss.
26/04/2024	IDSA	Effect of Pneumococcal	11/03/2024	Background - In addition to preventing pneumococcal disease, emerging
		Conjugate Vaccines on Viral		evidence indicates that pneumococcal conjugate vaccines (PCVs) might
		Respiratory Infections: A		indirectly reduce viral respiratory tract infections (RTIs) by affecting
		Systematic Literature Review		pneumococcal-viral interactions.
				Methods - We performed a systematic review of interventional and
				observational studies published during 2000–2022 on vaccine
				efficacy/adjusted effectiveness (VE) and overall effect of PCV7, PCV9, PCV10,
				or PCV13 against viral RTIs.
				Results - Sixteen of 1671 records identified were included. Thirteen
				publications described effects of PCVs against viral RTIs in children. VE
				against influenza ranged between 41% and 86% (n = 4), except for the 2010–
				2011 influenza season. In a randomized controlled trial, PCV9 displayed
				efficacy against any viral RTI, human seasonal coronavirus, parainfluenza, and
				human metapneumovirus. Data in adults were limited (n = 3). PCV13 VE was
				4%–25% against viral lower RTI, 32%–35% against coronavirus disease 2019
				outcomes, 24%–51% against human seasonal coronavirus, and 13%–36%
				against influenza A lower RTI, with some 95% confidence intervals spanning
				zero. No protection was found against adenovirus or rhinovirus in children or
				adults.
				Conclusions - PCVs were associated with protection against some viral RTI,

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				with the strongest evidence for influenza in children. Limited evidence for adults was generally consistent with pediatric data. Restricting public health
				evaluations to confirmed pneumococcal outcomes may underestimate the
				full impact of PCVs.
26/04/2024	EvidenceAlerts	Effectiveness of Multifaceted	25/03/2024	Question-Can multifaceted strategies at the system, school, and individual
		Strategies to Increase		level increase influenza vaccination uptake among primary school students?
		Influenza Vaccination Uptake		Findings-In this cluster randomized trial involving 1691 students from 17
		- A Cluster Randomized Trial		schools, the multifaceted strategies significantly improved the influenza
				vaccination uptake of students aged 7 to 8 years at school and overall uptake
				either at school or outside of school.
				Meaning-These findings suggest a modest effect of multifaceted strategies in
				improving influenza vaccination uptake and provide insights for the
				optimization of school-located vaccination programs for other vaccines in
				China, as well as in other countries with similar contexts and comparable
				programs.