

GENERAL PROGRAMME $\underline{PROVISIONAL}$

last update: 27 July 2022

08.00-09.00	Registration and welcome coffee			
09.00-10.00	Plenary session A			
	Controlling a pandemic – what are the ethical boundaries?			
	Chaired by Andrea Ammon (ECDC) and ESCAIDE Scientific Committee member Mike Catchpole (ECDC)			
	Keynote speaker: Alena Buyx			
10.00-10.30	Message from ECDC Director and EC	CDC Chief Scientist		
10.30-11.00	Coffee break			
11.00-12.30	Fireside session 1	Fireside session 2		
	Implementation science	HIV, sexually transmitted	l and community infection	
12.30-14.30	Lunch break	12.30–13.00 Yoga and body stretching		
		13.00-13.30 Online only- posters	13.00-14.00 Session TBC	
13.30-15.00	13.30-15.00 Fireside session 3	14.00-15.00 Session TBC		
	Secondary public health impacts			
15.15-16.00	Poster tour 1 Knowledge for policy a diseases Poster tour 3 Respiratory and zoonoses			
16.00-16.30	Coffee break			
16.30-18.00	Plenary session B			
	Refugees and refuge: how to promote and protect the health of displaced people			
	Chaired by the ESCAIDE Scientific Committee members Stine Nielsen (EAN) and Chikwe Ihekweazu (WHO)			
	Speakers: Paul Spiegel (Johns Hopkins Center), Aurélie Ponthieu (Médecins Sans Frontières), Grzegorz Juszczyk (National Institute of Health, Poland), Apostolos Veizis (INTERSOS, Greece)			
18.00-18.15	Daily wrap-up			
18.30-20.30	Networking cocktail			
	This is a provisional programme and sessions			



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conference dates.

08.30-09.00	Welcome coffee				
	Plenary session C				
	Revolutions in vaccination in the age of COVID-19				
09.00-10.30	Chaired by the ESC Poland)	AIDE Scientific Committee members John Kinsman (ECDC) and Magdalena Rosińska (NIPH-NIH,		
	Speakers: Hanna N	ohynek (THL), Cornelia Betsch (University of Erfurt,	Germany), Jeremy Ward (INSERM, France)		
10.30-11.00	Coffee break				
11.00-12.30	Fireside session 4	1	Fireside session 5		
	COVID-19: vaco	cine effectiveness	COVID-19: surveillance action		
12.30-14.30	Lunch break	12.30–13.00 Yoga and body stretching	12.30-14.00 EAN General Assembly		
		13.00-13.30 Online only-posters	meeting (closed event)		
13.30-15.00	13.30-15.00		14.00-15.00 MediPIET event		
	Eurosurveillance	Seminar			
	Communicating <i>Pitfalls and benef</i>	science: social media and other means			
15.15-16.00	promotion Pos	VID-19: vaccination and immunity Poste ter tour 7 Antimicrobial resistance Poster Poster tour 9 Late-breakers			
16.00-16.30	Coffee break				
16.30-18.00	Plenary session D)			
	Cutting through	the noise: the role of Public Health expe	erts in managing an infodemic		
	Chaired by the ESCAIDE Scientific Committee members Adam Roth (ECDC), Petronille Bogaert (Sciensano, Belgium), and Mircea Ioan Popa (Carol Davila University of Medicine and Pharmacy, Romania)				
	Speakers: Mihai Craiu (Mother and Children Hospital, Bucharest), Neville Calleja (Ministry for Health, Malta), Alma Tostmann (Radboudumc, Netherlands), Martyna Bildziukiewicz (European External Action Service)				
18.00-18.15	Daily wrap-up				
18.30-20.00	BarCamp				
NOTES		programme and sessions may change. The final pro			

General programme Pages 1-3 Fireside sessions (Orals) Pages 4-6 Poster tours Pages 7-9



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CET time zone	DAY 3 (25 November)			
08.30-09.00	Welcome coffee			
09.00-10.30	Plenary session E			
	The COVID-19 pandemic – a survei	illance game changer?		
	Chaired by the ESCAIDE Scientific Committee France), and Luísa Peixe (University of Porto	e members Vicky Lefevre (ECDC), Bruno Coignard (Santé publique		
	Speakers: Silke Buda (RKI, Germany), Søren Alexandersen (SSI, Denmark), Fernando Simon (Ministry of Spain)			
10.30-11.00	Coffee break			
11.00-12.30	Fireside session 6	Fireside session 7		
	COVID-19: intervention and health promotion	Food -and water borne and vector diseases		
12.30-14.30	Lunch	12.30–13.00 Yoga and body stretching		
		13.00-13.30 Online only-posters		
		14.00-15.00 Career Compass		
13.30-15.00	Fireside session 8	Fireside session 9		
	COVID-19: Surveillance approaches	Late breakers		
15.15-16.00	Poster tour 10 Surveillance approaches Poster tour 11 Food -and water borne diseases and zoonoses: outbreaks Poster tour 12 Antimicrobial resistance Poster tour 13 COVID-19: vaccine effectiveness			
16.00-16.30	Coffee break	Coffee break		
16.30-17.00	Final wrap-up			
17.00-17.30	Closing ceremony and awards			
NOTES	This is a provisional programme and session conference dates.	s may change. The final programme will be published closer to the		





FIRESIDE SESSIONS PROGRAMME PROVISIONAL

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DAY 1 (23 November)

	DATI (23 November)	
11.00-12.30	Fireside session 1 moderated by Implementation science a. Community-based One Health Approach to Prevent, Detect and Respond to Disease Outbreaks, <i>Muhammad Abdi Haryono</i> b. Collaborative modelling of the future dynamics of COVID-19: the European Forecasting and Scenario Hubs, <i>Katharine Sherratt</i> c. Endemic Zika Virus in Brazil, <i>Laith Yakob</i>	Fireside session 2 moderated by HIV, sexually transmitted and community infection a. Invasive beta-hemolytic streptococcal infections in Finland, 2006-2020: The rise of Lancefield group C/G infections, Dafni Katerina Paspaliari b. Investigating the sociodemographic and behavioural factors associated with hepatitis C virus testing amongst people who inject drugs in England, Wales and Northern Ireland, Jin-Min Yuan
	 d. Effectiveness of Four Vaccines in Preventing SARS-CoV-2 Infection in Kazakhstan <i>Dilyara Nabirova</i> e. An Approach to Developing One Health Field Epidemiology Competencies, <i>Marion Muehlen</i> f. Enhanced event-based surveillance: monitoring events during the Ukraine crisis, 2022, <i>Jon Bilbatua</i> 	 c. Neisseria gonorrhoeae antimicrobial resistance surveillance in the Netherlands: a 10-year overview, <i>Maartje Visser</i> d. Contribution of Sexual Health Centres in hepatitis B detection and control in the Netherlands, <i>Stijn Raven</i> e. Effects of Improving Partner Notification on HIV and gonorrhea transmission among men who have sex with men in the Netherlands, <i>Maarten Reitsema</i> f. The impact of the COVID-19 pandemic on the transmission of hepatitis B virus among men who have sex with men: a mathematical modelling study, <i>Maria Xiridou</i>
13.30-15.00	Fireside session 3 moderated by Secondary public health impacts a. How COVID-19 fast-tracked the development of a national microbiology laboratory database for surveillance in Norway: Success factors, Nina Aasand b. Impact of universal Tuberculosis (TB) vaccination cessation on the epidemiology of paediatric TB cases in Ireland, 2011-2021, Sarah Jackson c. A systematic review on the impact of COVID-19 on cervical cancer prevention, diagnosis and treatment, Giulia Dallagiacoma d. The impact of the COVID-19 pandemic and non-pharmaceutical interventions on infectious diseases under national surveillance in the Netherlands from 2020 to Q1 2022, Denise Van Hout	Session TBC





FIRESIDE SESSIONS PROGRAMME PROVISIONAL

CET time zone

DAY 2 (24 November)

11.00-12.30

Fireside session 4 moderated by TBC

COVID-19: vaccine effectiveness

- a. Vaccine effectiveness against COVID-19 and associated death in Alpha and Delta variant outbreaks in long-term care facilities in Germany, Mirco Sandfort
- b. Primary course and booster vaccine effectiveness against Omicron: Results from a European multicentre study at primary care/ambulatory level, Esther Kissling
- c. COVID-19 vaccine effectiveness against SARS-CoV-2 infection during the Delta period in the Netherlands: A nationwide study adjusting for chance of exposure, Katja van Ewijk
- Covid-19 vaccination programme effectiveness against SARS-CoV-2 related infections, hospital admissions and deaths in the Apulia region of Italy: a one-year retrospective cohort study, Tobias Homan
- e. Estimation of COVID-19 vaccine effectiveness against hospitalisation in individuals aged 65+ years using electronic health registries; pilot study in four EU/EEA countries, January-February 2022, Alexis Sentis Fuster
- f. A new challenge for control selection in influenza vaccine effectiveness test-negative design studies in the COVID-19 context: Results from the European I-MOVE multicentre study at primary care level, $\it Esther\ Kissling$

Fireside session 5 moderated by TBC

COVID-19: surveillance action

- a. Comparative risk of cerebral venous sinus thrombosis (CVST) following SARS-CoV-2 vaccination or infection: A national cohort study using linked electronic health records, *Columbus Ohaeri*
- Risk of SARS-CoV-2 infection among members of a fitness centre chain in Stockholm, Sweden 2020: Is going to the gym risky?, Anine Kongelf
- Bus riding as amplification mechanism for an explosive COVID-19 outbreak after import of SARS-CoV-2 by air travellers, Germany, 2021, Meike Schöll
- d. Disease severity and outcomes of COVID-19 in cases infected with SARS-CoV-2 Delta and Omicron variants, Skåne region, Sweden, December 2021 - January 2022, Anine Kongelf
- e. A comparison of COVID-19 critical care admission incidence in Wales by vaccine status, Mai Barry
- f. Estimate of school-specific reproductive number during weekly screening in the Auvergne-Rhône-Alpes region, France, week 47 to 50, 2021, Elisabetta Colosi

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FIRESIDE SESSIONS PROGRAMME PROVISIONAL

CET time zone

DAY 3 (25 November)

11.00-12.30

Fireside session 6 moderated by TBC

COVID-19: intervention and health promotion

- a. Nosocomial acquisition not associated with increased mortality amongst hospitalised COVID-19 cases in Wales, Feb 2020-Mar 2022, Rubeshkumar Polani
- Determinants of healthcare workers' self-reported compliance to infection prevention and control during the COVID-19 pandemic: a cross-sectional study in Dutch residential care facilities for people with intellectual and developmental disabilities, Famke Houben
- c. Incidence rate and risk factors associated with SARS-CoV-2 infection in healthcare workers from three European hospitals, July 2021-April 2022, Camelia Savulescu
- d. Assessing the robustness of SARS-CoV-2 vaccine trial results: systematic review and meta-analysis, Ngoc-Anh Hoang
- e. Socioeconomic patterns of COVID-19 vaccine uptake in children aged 5-11 in Italy (January - April 2022), Alberto Mateo Urdiales
- The association between SARS-CoV-2 seroprevalence and crossborder mobility for visiting family or friends among Dutch residents of a border province, Demi ME Pagen

Fireside session 7 moderated by TBC

Food -and water borne and vector diseases

- Regional shift in Pogosta disease incidence during 2021 epidemic in Finland, Eveline Otte im Kampe
- Risk of lymphoma increased after Puumala virus infection in Finland, 2009-2019: a retrospective register-based study, Sohvi Kääriäinen
- c. An Easter Surprise: Salmonella Typhimurium outbreak linked to chocolate products in the United Kingdom, 2022; a case control study, Amoolya Vusirikala
- d. International outbreak of Salmonella Typhimurium linked to a chocolate factory in 2022: Belgian findings, Valeska Laisnez
- Whole Genome Sequencing identified a prolonged Salmonella Poona nursery outbreak (2016-2021) in North West England, UK,
- f. Climate Warming and increasing Vibrio vulnificus infections in North

13.30-15.00

Fireside session 8 moderated by TBC

COVID-19: Surveillance approaches

- Linkage of SARS-CoV-2 sequencing results to the Bavarian surveillance system from January 2021 through February 2022, Germany, Liza Coyer
- b. Using a novel 'difference-in-differences' method and syndromic surveillance to estimate the impact of media reporting on local healthcare utilisation during an early stage of the COVID-19 pandemic, Aryan Nikhab
- Wastewater surveillance for SARS-CoV-2 closely mirrors incidence data: results from national surveillance in Denmark, October 2021 – May 2022, *Oliver McManus*
- SARS-CoV-2 Genomic Surveillance: Lessons Learned from the EMERGEN Consortium, France, 2021-2022, Justine Schaeffer
- How do we keep a cohort engaged? Lessons from one year of following up over 44,000 SIREN study participants, UK, *Anna* Howells

Fireside session 9 moderated by TBC

Late breakers

TBC





POSTER TOURS PROGRAMME PROVISIONAL

CET time zone	DAY 1 (23 November)				
15.15-16.00	Poster tour 1 moderated by TBC				
	Knowledge for policy and practice				
	a. The COVID-19 pandemic impacted syphilis testing at anonymous consultation clinics in North-Rhine Westphalia state, Germany, 2019-2021, Katja Siling				
	b. Translating the COVID-19 epidemiological situation into policies and measures: the Belgian experience, Geraldine De Muylder				
	c. One Health in policy and practice: A UK case study of <i>Corynebacterium ulcerans</i> in a pet and challenges managing human health risk for zoonotic disease where guidance is focused on human cases, <i>Penelope Cresswell-Jones</i>				
	d. Importance of regional networking in building national FETP: Experience of Lebanon, Zeina Farah				
	e. Assessment of infection prevention and control in hospitals providing medical care for coronavirus infection (COVID-19) in Bishkek, Osh cities and Chui region, Kyrgyzstan, 2020, Altynai Dzhalimbekova				
	f. Activation of crisis management structures at the Robert Koch Institute during the COVID-19 pandemic, <i>Ulrike Grote</i>				
15.15-16.00	Poster tour 2 moderated by TBC				
	Emerging and vector-borne diseases				
	a. Modelling the human force of infection of West Nile virus in Europe, <i>Giovanni Marini</i>				
	b. Risk assessment and preparedness plan development for West Nile Virus (WNV) transmission in the State of Baden-Wuerttemberg, Germany, 2022, Sabrina Nothdurfter				
	c. Predictors of Lassa fever diagnosis in suspected cases reporting in health facilities: A secondary data analysis of Nigerian surveillance data, 2018-2021, Sandra Mba				
	d. Spatiotemporal spread of tick-borne encephalitis in the EU/EEA, 2012-2020, Jasper Van Heuverswyn				
	e. Modelling Elevated tick borne encephalitis seroprevalence in blood donors in regions classified as moderately-affected or low -risk in Poland, 2022, Katarzyna Pancer				
15.15-16.00	Poster tour 3 moderated by TBC				
	Respiratory diseases				
	a. Integrated surveillance of SARS-CoV-2 and other human respiratory viruses in a public testing facility in Utrecht, the Netherlands to monitor co-circulation in a susceptible population, Stijn Raven				
	b. Feasibility to estimate real-time influenza vaccine effectiveness: a pilot study across five European study sites, Marine Maurel				
	c. The epidemiology of respiratory syncytial virus in children during the COVID-19 pandemic measured by laboratory, clinical and syndromic surveillance in England: a retrospective observational study, <i>Megan Bardsley</i>				
	d. Differences found in the epidemiology of Tuberculosis (TB) among migrants versus non-migrants in Ireland, 2011-2020, Sarah Jackson				
	e. A SARS-CoV-2 Omicron outbreak among crew members on a cruise ship in Germany in early 2022, <i>Silja Bühler</i>				
	f. COVID-19 outbreak in an elderly care home: very low vaccine effectiveness and late impact of booster vaccination campaign, Katja van Ewijk				
15.15-16.00	Poster tour 4 moderated by TBC				
	Food -and water borne diseases and zoonoses				
	a. Timely and reliable outbreak investigation using a non-probabilistic online panel as a source of controls - two parallel case-control studies investigating a Salmonella Braenderup outbreak in Germany, Anna Luczynska				
	b. An outbreak of Escherichia coli-associated haemolytic uremic syndrome linked to consumption of an unexpected food vehicle, France 2022, Catarina Krug				
	c. Outbreak investigation of cholera in a peri-urban village of Panchkula district, Haryana, India, 2021, Shivani Gupta				
	d. Cholera Outbreak Investigation, Ballo Adda Mohalla, Lucknow District, Uttar Pradesh 2021, Surabhi Tripathi				
	e. Norovirus GII.3[P12] outbreak associated with the drinking-water supply in a rural area in Galicia, Spain, 2021, Camille Jacqueline				





POSTER TOURS PROGRAMME PROVISIONAL

11.30-12.00	Poster tour 5 moderated by TBC				
	COVID-19: vaccination and immunity				
	a. Seroprevalence of SARS-CoV-2 IgG antibodies and factors associated with neutralizing activity among primary health care workers six months after vaccination rollout in France, <i>Marie Pouquet</i>				
	b. Early vaccination of day-care staff significantly reduced SARS-CoV-2 transmission in day-care centers in Rhineland-Palatinate, Germany, in 2021, Anja Schoeps				
	c. Impaired immunity and high attack rates caused by SARS-CoV-2 variants among vaccinated long term care facility residents, Dorothée Obach				
	d. The effect of hybrid immunity during Omicron variant wave in a European healthcare worker cohort, December 2021 - April 2022, Camelia Savulescu				
	e. B cell mediated immunogenicity following boosting with the BNT162b2 SARS-CoV-2 vaccine in dialysis patients, Israel, 2021-22, Neta Tuvia				
	f. Estimating COVID-19 and influenza vaccination coverage in homeless populations; Wales, UK, Gethin Jones				
11.30-12.00	Poster tour 6 moderated by TBC				
	Intervention and health promotion				
	a. Deciding about maternal pertussis vaccination: associations between intention, and needs and values in a vaccine-hesitant religious group, Anne de Munter				
	b. Advocacy and community engagement in TB control: the Kano wellness on wheels (WoW) experience, Mustapha Musa Tukur				
	c. Hantavirus and Leptospira spp.: Seroprevalence, knowledge and preventive behaviour in seasonal harvesters in Lower Saxony, Germany, 2021, Saskia Schmitz				
	d. Considerable doubt about rubella screening and vaccination intention among unvaccinated orthodox Protestant women, Anne de Munter				
	e. Lessons from a protracted iGAS outbreak with added complexity of concurrent scabies outbreak, in a UK residential nursing care facility 2020-2021, <i>Philippa Williams</i>				
	f. Vaccine confidence among the adult population of Bishkek and Naryn, Kyrgyz Republic, 2021, Marina Malisheva				
11.30-12.00	Poster tour 7 moderated by TBC				
	Antimicrobial resistance				
	a. Emergence of carbapenemase-producing Enterobacterales causing infection in companion animals, Joana Moreira Da Silva				
	b. Trends in antibiotic resistance in Portugal: analysis of surveillance data from 2015 to 2020, Vera Manageiro				
	c. Increasing trends in extended-spectrum <i>β-lactamase</i> production in urine and blood <i>Escherichia coli</i> isolates in Finland in 2008–2019: a retrospective nationwide study, <i>Heikki Ilmavirta</i>				
	d. Increase in extensively-drug resistant Shigella sonnei infections in Spain, 2021-2022, Camille Jacqueline				
	e. Failure of scabies treatment: a systematic review and meta-analysis, Felix Reichert				
	f. International patient transfers causing healthcare associated outbreaks of carbapenem-resistant <i>Acinetobacter baumannii</i> in Germany, August – September 2021, <i>Jonatha Baum</i>				
11.30-12.00	Poster tour 8 moderated by TBC				
	Surveillance: opportunities and evaluation				
	a. Candida auris in Attica hospitals, Greece: yet another Hospital Acquired Infection, Lida Politi				
	b. Clostridioides difficile infection surveillance system in Norway: evaluation of the data completeness, 2019-2021, Lea Franconeri				
	c. Wastewater-based surveillance of extended-spectrum beta-lactamase (ESBL)-producing Enterobacteriaceae in Finland: Informed selection of sites for sampling, <i>Dafni Katerin Paspaliari</i>				
	d. Evaluation of random-digit-dialing (RDD) recruitment to invite participants for serological tests as a method to obtain a representative sample for general population seroepidemiological surveys, Magdalena Rosinska				
	e. Evaluation of 17 years of MERIN (Meningitis and Encephalitis register in Lower Saxony, Germany) surveillance program: acceptability survey and data quality assessment, <i>Anna Luczynska</i>				
	f. Evaluation and comparison of statistical algorithms for monitoring COVID-19 case and death trends in EU/EEA Member States, Joana Gomes Dias				
11.30-12.00	Poster tour 9 moderated by TBC				
	Late breakers				





POSTER TOURS PROGRAMME PROVISIONAL

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DAY 3 (25 November)

	DAY 3 (25 November)
11.30-12.00	Poster tour 10 moderated by TBC
	Surveillance approaches
	a. SARS-CoV-2 in schoolchildren during the Delta variant wave August to December 2021– finding from the Danish comprehensive register-based surveillance system, <i>Tjede Funk</i>
	b. Rapid establishment of a prospective surveillance system for child mortality and severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) infection in England, <i>Gemma Smith</i>
	c. Repeated nationwide serosurveillance of SARS-CoV-2 in the Netherlands during the second year of the pandemic: a prospective population-based cohort, <i>Eric Vos</i>
	d. Investigating opportunities for surveillance of long term chlamydia complications in the Netherlands: a qualitative study, Elke Den Boogert
	e. Characterisation of measles transmission chains in three outbreaks in the post-elimination phase. Spain 2017-2019, Kevin Bliek-Bueno
	f. Evaluating severity parameters for scaling up and down public health and social measures during the COVID-19 pandemic in select WHO Member States, <i>Holly Sadler</i>
11.30-12.00	Poster tour 11 moderated by TBC
	Food -and water borne diseases and zoonoses: outbreaks
	a. Monophasic Salmonella Typhimurium outbreak linked to chocolate products, Ireland, 2022, Charlotte Salgaard Nielsen
	b. Successful containment of a <i>Listeria monocytogenes</i> outbreak caused by shredded vegetables, Hesse/Germany, 2021-2022, <i>Laura Becker</i>
	c. Outbreak of monophasic Salmonella Typhimurium linked to fresh small tomatoes, Sweden, 2021, Karolina Fischerström
	d. Cluster of dog bite injuries and rabies exposures - Tajikistan, 2022, <i>Rajabali Sharifov</i>
	e. High fatality rate from probable botulism linked to home canning - Tajikistan, 2021, <i>Sakina Shoeva</i>
	f. Lassa fever in the East of England: the multiagency response, <i>Eleanor Turner-Moss</i>
11.30-12.00	Poster tour 12 moderated by TBC
	Antimicrobial resistance
	a. Emergence of carbapenemase-producing Enterobacterales causing infection in companion animals, Joana Moreira Da Silva
	b. Trends in antibiotic resistance in Portugal: analysis of surveillance data from 2015 to 2020, Vera Manageiro
	c. Increasing trends in extended-spectrum β-lactamase production in urine and blood Escherichia coli isolates in Finland in 2008–2019: a retrospective nationwide study, Heikki Ilmavirta
	d. Increase in extensively-drug resistant Shigella sonnei infections in Spain, 2021-2022, Camille Jacqueline
	e. Failure of scabies treatment: a systematic review and meta-analysis, Felix Reichert
	f. International patient transfers causing healthcare associated outbreaks of carbapenem-resistant <i>Acinetobacter baumannii</i> in Germany, August – September 2021, <i>Jonatha Baum</i>
11.30-12.00	Poster tour 13 moderated by TBC
	COVID-19: vaccine effectiveness
	a. Effectiveness of BNT162b2 vaccine against SARS-CoV-2 infection and severe COVID-19 in children 5-11 years old in Italy (January -April 2022), Chiara Sacco
	b. Monitoring vaccine effectiveness against SARS-CoV-2 infection in a Dutch cohort – The VAccine Study COvid-19 (VASCO), Anne Huiberts
	c. Vaccine effectiveness of mRNA vaccines against COVID-19 hospitalisation during Omicron circulation in Europe in adults ≥20 years: I-MOVE-COVID-19 and ECDC hospital networks, 27 Dec 2021–31 Mar 2022, Angela Mary C. Rose
	d. Vaccine effectiveness of BNT162b2 COVID-19 in adolescents: results of a Portuguese population-based cohort study based on electronic health records linkage, <i>Baltazar Nunes</i>
	e. Relative effectiveness of COVID-19 vaccine booster dose against Delta and Omicron SARS-CoV-2 infection in a European healthcare worker cohort, June 2021- April 2022, Camelia Savulescu

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f. Effectiveness of BNT162b2 mRNA booster doses and hybrid-immunity against SARS-CoV-2 infections during the Delta and Omicron variant waves; the UK SIREN study September 2021 to February 2022, Victoria Hall