



# ESCAIDE

Malta, 21-23 November 2018

European Scientific Conference on Applied Infectious Disease Epidemiology

Day 1, Wednesday 21 November 2018

Moderated Poster Session A – tracks 1-8

15:40-16:40

**Track 1: Antimicrobial resistance and healthcare-associated infections: Intervention and assessment**

**Moderator: Outi Lyytikäinen**

- 1.1. No association between human antibacterial consumption and incidence of ESBL-producing *Escherichia coli* and *Clostridium difficile* infections in Finland: Findings from an ecological study, **Timothee Dub**
- 1.2. Quantifying the transmission dynamics of MRSA in the community and healthcare settings in a low-prevalence country: an individual-based modelling study, **Francesco Di Ruscio**
- 1.3. Being a carrier of Multidrug Resistant Micro-organisms in daily life: the perspective of the patient, **Renske Eilers**
- 1.4. Evaluation of Colistin Susceptibility Directly from Blood Cultures - A Novel Flow Cytometric Protocol, **Daniela Fonseca e Silva**
- 1.5. Evaluation of FASTinov® kit for antimicrobial susceptibility testing on gram positive cocci, **Inês Martins-Oliveira**

**Track 2: Emerging and vector-borne diseases (1)**

**Moderator: Christian Winter**

- 2.1. Surveillance of imported malaria in Denmark using a digitalized national microbiology database, **Lasse S. Vestergaard**
- 2.2. Prevalence of *Candida auris* in patients admitted to intensive care units in England, **Ashley Sharp**
- 2.3. Molecular characterization of Enterovirus in children hospitalized with severe acute respiratory infection in Northern Italy (2014-2017), **Laura Pellegrielli**
- 2.4. Increased risk of invasive group A streptococcal disease in the household contacts of scarlet fever cases in England, 2011-2016, **Vicky Watts**
- 2.5. Six year experience of detection and investigation of possible MERS-CoV cases, England, 2012-2018, **Hongxin Zhao**
- 2.6. Emerging Shiga-toxin-producing *E. coli* serogroup O80 associated hemolytic and uremic syndrome in France, 2013-2016: differences with other serogroups, **Brecht Ingelbeen**

**Track 3: Food- and waterborne diseases and zoonoses (1): Epidemiology- Salmonellosis**

**Moderator: Samantha Bracebridge**

- 3.1. Salmonella outbreak linked to a rural butcher shop with unusually severe clinical presentation, February-March 2018, Northeast England, **Nicola Love**
- 3.2. Countrywide outbreak of salmonellosis (*Salmonella* Bareilly) confirmed by whole genome sequencing in the Czech Republic, 2017-2018, **Klára Labská**
- 3.3. Second *Salmonella* Agona outbreak associated with an infant milk production facility in France, 2017; 12 years after the first, **Eve Robinson**
- 3.4. A prolonged outbreak of monophasic *Salmonella* Typhimurium with environmental contamination in Norway, August 2017, **Lotta Siira**
- 3.5. A Salmonellosis outbreak caused by Italian truffle salami, Stockholm 2018, **Joanna Nederby Öhd**

**Track 4: Food- and waterborne diseases and zoonoses (2): Surveillance**

**Moderator: Alicia Barrasa**

- 4.1. Compliance with water advisories following water interruptions in the municipality of Baerum, Norway, **Susanne Hyllestad**
- 4.2. Epidemiology of *Campylobacter* in Ireland 2004-2016: What has changed?, **Lois O'Connor**
- 4.3. Serogroups and virulence factors in STEC isolates found in food items and human samples in Sweden, 2010-2017, **Theresa Enkirch**
- 4.4. What factors are associated with non-travel enteric fever (typhoid and paratyphoid) in England and Wales 2006 to 2016?, **Maria Saavedra-Campos**
- 4.5. Investigations of *Listeria monocytogenes* serogroup IVb, multi-locus sequence type 6 cluster in Finland, 2017-2018, **Jenni Luukkanen**
- 4.6. Risk of enteropathogenic protozoa infection in asymptomatic school children and their families and teachers in Leganés, Madrid (Spain), November 2017- March 2018, **Lucia Reh**

**Track 5: Influenza, TB and other respiratory viruses (1): Surveillance, Incidence and Burden**

**Moderator: Marta Valenciano**

- 5.1. Evaluation of ECDC Influenza-like illness (ILI) case definition to detect respiratory syncytial virus (RSV) infection through the Influenza Surveillance System in Portugal, **Emma Sáez-López**
- 5.2. Performance of ECDC ILI case definition and ICPC R80 code for influenza surveillance based on the Portuguese Influenza Surveillance System, **Pedro Pinto-Leite**
- 5.3. Burden of respiratory syncytial virus associated hospitalisation in the first year of life in a major urban city, Lyon, France 2010 to 2016, **Jean-Sebastien Casalegno**
- 5.4. The incidence of symptomatic infection with influenza virus in the Netherlands 2011/2012 to 2016/2017, estimated using Bayesian evidence synthesis, **Anne Teirlinck**
- 5.5. Real-time mortality attributed to seasonal influenza in Spain, 2012-13 to 2017-18, **Concepción Delgado-Sanz**
- 5.6. Contrasting socioeconomic differences in acute infectious diseases in the Netherlands, **Brechje de Gier**

**Track 6: Sexually transmitted infections (1): Chlamydia, Syphilis and Neisseria Gonorrhoeae**

**Moderator: Viviane Bremer**

- 6.1. Descriptive analysis of syphilis reinfections in Dublin from 2010 to 2017, **Natalia Redondo**
- 6.2. The burden of resistant *Neisseria gonorrhoeae* in the EU/EEA, **Gianfranco Spiteri**
- 6.3. Enhanced surveillance of a long term outbreak of gonorrhoea with high-level resistance to azithromycin in England since 2014, **Adrian Wensley**
- 6.4. Emergence of a new clade of multidrug resistant *Neisseria gonorrhoeae* in Budapest, Hungary, 2016-2017, **Ákos Tóth**
- 6.5. Novel culture-free genotyping of *Neisseria gonorrhoeae* vastly improves surveillance by overcoming high failure rate and cross-reactivity in extra-genital sample, **Brian van der Veer**

**Track 7: Zoonosis**

**Moderator: Carmen Varela Santos**

- 7.1. Public perceptions towards health authorities' risk communication and response in a large regional outbreak of Q fever in South-Limburg, the Netherlands, **Jeanne Heil**
- 7.2. Human exposure to H5N8 highly pathogenic avian influenza virus in the Netherlands, 2016 – 2017, **Diederik Brandwagt**
- 7.3. Impact of Rev-1 vaccination of sheep and goats on human brucellosis in the Republic of Macedonia, **Svetlana Popovska Kljuseva**
- 7.4. The burden of disease of Q-fever: a meta-analysis with individual patient data up to nine years after acute infection, **Cornelia HM van Jaarsveld**
- 7.5. Epidemiology of animal bites and animal rabies in Jordan, 2010-2017, **Mohammad Alrawahneh**

**Track 8: Vaccine- preventable diseases (1): Implementation and modelling**

**Moderator: Tanya Melillo**

- 8.1. Agent-based modeling of influenza dynamics in Russian cities: the role of spatial heterogeneity and background immunity levels, **Vasiliy Leonenko**
- 8.2. Risk assessment and cost impact of adverse events during pandemic influenza vaccinations, **Edwin van Leeuwen**
- 8.3. Quantile regression for seroprevalence study of pertussis comparing Norway and Sweden, 2012-2013, **Ilias Galanis**
- 8.4. Knowledge, attitudes and practice related to maternal pertussis vaccination: study among public health nurses and midwives in Finland, **Jana Prattingerová**
- 8.5. ADVANCE system testing: benefit-risk analysis of a marketed vaccine using MCDA and cohort modelling, **Kaatje Bollaerts**
- 8.6. ADVANCE system testing: Feasibility of using a network of health data bases for vaccine safety studies: an example on pertussis vaccination, **Daniel Weibel**

## Day 2: Thursday, 22 November

### Moderated Poster Session B – tracks 9-16

15:40-16:40

#### Track 9: Antimicrobial resistance (Epidemiology and Surveillance)

Moderator: **Alessandro Cassini**

- 9.1. Outbreak of a rare type of Methicillin-resistant Staphylococcus aureus (MRSA) among teenagers and their families in a small community in Norway, 2016-2017, **Cecilia Wolff**
- 9.2. Epidemiology of carbapenemase-producing bacteria in England, 2016–2018: results from the national enhanced surveillance system, **Rachel Freeman**
- 9.3. Two regional outbreaks of Carbapenemase producing Klebsiella pneumoniae ST512, Finland, 2013-ongoing, **Janko van Beek**
- 9.4. First report of macrolide-resistant Mycoplasma pneumoniae in adults with community-acquired pneumonia in Italy, **Daniela Loconsole**
- 9.5. Cryptococcosis: Molecular types and drug susceptibility of German clinical isolates (2011-2017), **Regina Selb**

#### Track 10: Emerging and vector-borne diseases (2): International health

Moderator: **Ioannis Karagiannis**

- 10.1. Ongoing high morbidity and mortality due to infectious diseases in Walikale territory, Democratic Republic of the Congo (DRC) 2017, **Eve Robinson**
- 10.2. Implementing WHO's Early Warning, Alert and Response System (EWARS) for outbreak detection during the Rohingya Crisis, Bangladesh 2017-2018, **Basel Karo**
- 10.3. The Epidemic Intelligence from Open Sources (EIOS) Initiative: A collaboration to improve and support global epidemic intelligence through event-based surveillance and information sharing, **Emilie Johanna Peron**
- 10.4. Enhanced Completeness of Digital Surveillance Outbreak Response Management and Analysis System (SORMAS) versus Conventional Surveillance for Lassa fever and Meningitis Outbreaks in Nigeria 2017/2018, **Daniel Tom-Aba**
- 10.5. Descriptive epidemiology of a large outbreak of Diphtheria among Forcibly Displaced Myanmar Nationals, Bangladesh, 2017-2018, **Jonathan Polonsky**
- 10.6. Vaccine-preventable diseases among asylum-seekers in Germany between 2015-2017, **Alexandra Sarah Lang**

#### Track 11: Food- and waterborne diseases and zoonoses (3): Hepatitis and viral infection

Moderator: **Thibaut Jombart**

- 11.1. Sources and risk factors for acute hepatitis E in the Netherlands, **Anna Tulen**
- 11.2. Risk factors for autochthonous Hepatitis E in Germany, **Mirko Faber**
- 11.3. Emergence of Hepatitis E virus in Belgium, 2010-2016, **Vanessa Suin**
- 11.4. Relevance of sex ratio in the early detection of a foodborne hepatitis A outbreak in a context of epidemic among men who have sex with men, Bordeaux, France, June-July 2017, **Yann Lambert**
- 11.5. Improving preparedness to respond to cross-border hepatitis A outbreaks in the European Union/European Economic Area: towards comparable sequencing of hepatitis A virus, **Theresa Enkirch**
- 11.6. Echovirus type 6 transmission clusters in the Netherlands and the role of environmental surveillance in early warning, **Susana Monge**

#### Track 12: Food- and waterborne diseases and zoonoses (4): Epidemiology and Outbreaks 1

Moderator: **Giri Shankar**

- 12.1. An outbreak of toxin-producing Clostridium perfringens following a Mother's day lunch, UK, March 2018, **Mary Cronin**
- 12.2. Non-foodborne outbreak of acute gastroenteritis among German guests in a self-catering youth accommodation in Austria, March 2017, **Sebastian Thole**
- 12.3. First reported outbreak of enteroinvasive Escherichia coli O96:H19 in Sweden, **Emma Löf**
- 12.4. Multi-country outbreak of listeriosis due to Listeria monocytogenes, multi-locus sequence type 6, infections probably linked to frozen corn, European Union 2015–2018, **Margot Einöder-Moreno**
- 12.5. Outbreak Investigation of Shigellosis Diarrhoea in Baudh District of Odisha-India 2016, **Priyakanta Nayak**
- 12.6. Large outbreak of human campylobacteriosis linked to domestic chicken production, Sweden 2016-2017, **Fanny Chereau**

#### Track 13: Healthcare-associated infections (1): Epidemiology and Surveillance

Moderator: **Sophie Gubbels**

- 13.1. An outbreak of adenoviral keratoconjunctivitis in a hospital setting, Slovenia, August – October 2017, **Sanja Vuzem**
- 13.2. Nosocomial Staphylococcus aureus bloodstream infections in Finland, 1999-2017, **Emmi Sarvikivi**
- 13.3. Specific characteristics of healthcare-associated infection (HAI)-outbreaks - results from the national surveillance system in Germany, 2012-2017, **Gyde Steffen**
- 13.4. Possible underreporting and misclassification of healthcare-associated Legionnaires' disease cases in the EU/EEA, **Julien Beauté**
- 13.5. Epidemiology and risk factors of community-associated Clostridium difficile infections in Northern Ireland, 2012-2016, **Anna Maisa**
- 13.6. Sex/gender analysis within Cochrane reviews of medical device related infections, **Elena Stallings**

#### Track 14: Sexually transmitted infections (2), HIV and Viral Hepatitis: Surveillance

Moderator: **Gianfranco Spiteri**

- 14.1. Identifying missed opportunities for HIV testing to address late diagnosis of HIV in the East of England, **Ashley Popay**
- 14.2. Laboratory results of HIV-syphilis co-infection in Bavaria 2010-2017, **Durdica Marosevic**
- 14.3. Evaluation of the hepatitis B enhanced surveillance system in Ireland, **Lois O'Connor**
- 14.4. Foreign-born men who have sex with men at excess risk of infection during hepatitis A outbreak in Berlin 2017, **Janine Thoullass**
- 14.5. Can the observed increase of hepatitis B cases in Germany since 2015 be explained by screening of asylum seekers?, **Anja von Laer**

#### Track 15: Influenza, TB and other respiratory viruses (2): Vaccination and interventions

Moderator: **Louise Coole**

- 15.1. Previous vaccination and viral genetic variation effects over the 2016-17 influenza vaccine in Spain, **Amparo Larrauri**
- 15.2. Lower treatment completion among tuberculosis patients with diabetes in London, 2016-2017, **Oliver McManus**
- 15.3. Effectiveness of the 2017/18 trivalent and tetravalent influenza vaccines against influenza B in children and adolescents in Germany, **Carina Helmeke**
- 15.4. Influenza B vaccine effectiveness in the trivalent vaccine B/lineage-mismatched 2017/18 influenza season in Europe: investigating cross-protection and changes in VE over time, **Esther Kissling**
- 15.5. 2017/18 European influenza season: Disparate I-MOVE multicentre case control study estimates with A(H1N1), A(H3N2) and trivalent vaccine lineage-mismatched B/Yamagata influenza viruses circulating, **Esther Kissling**
- 15.6. Seasonal influenza vaccination in 2017/18 and two previous seasons lowered the risk of influenza B in 2017/18 in the elderly, a Finnish cohort study, **Ulrike Baum**

#### Track 16: Vaccine- preventable diseases (2): Epidemiology and Surveillance

Moderator: **Jussi Sane**

- 16.1. Were mistakes in vaccination management responsible for an outbreak of measles in the district Eichsfeld, Thuringia, Germany in autumn 2016?, **Sabine Schroeder**
- 16.2. Large outbreak of measles in Nouvelle-Aquitaine Region, France, due to low vaccine coverage, November 2017 to March 2018, **Anne Bernadou**
- 16.3. Epidemiology of Invasive Meningococcal Disease (IMD) in Greece during 2006-2016, **Anastasia Flountzi**
- 16.4. A measles outbreak in Ireland, 2017: Low vaccination coverage at subnational level challenges the elimination goal, **Annalisa Quattrocchi**
- 16.6. **Late breaker:** Very high case fatality rate of serogroup W invasive meningococcal disease in teenagers in 2018, the Netherlands, **Mirjam Knol**

## Day 3: Friday, 23 November

### Moderated Poster Session C – tracks 17-24

15:40-16:40

#### Track 17: Food- and waterborne diseases and zoonoses (5): Epidemiology and Outbreaks 2

Moderator: Emmanuel Robesyn

- 17.1. Use of a case-case comparison study for the investigation of an outbreak of Salmonella Typhimurium 1,4 [5],12:i:- in Central Greece, August 2017, **Theofilos Papadopoulos**
- 17.2. Freshly pressed grape must as a novel vehicle for infection with Francisella tularensis: an outbreak of oropharyngeal tularemia in autumn 2016, Germany, **Florian Burckhardt**
- 17.3. Investigation of a large hospital outbreak of Legionnaires' disease in Lisbon, Portugal, October to November 2017, **Alexis Sentis**
- 17.4. Investigating a cluster of Yersinia enterocolitica using Whole Genome Sequencing, United Kingdom, 2017, **Thomas Inns**
- 17.5. Health risks associated with participating in mud and obstacle runs; a prospective cohort study between April and October 2017, the Netherlands, **Elke den Boogert**
- 17.6. Outbreak of gastroenteritis among participants of a survival run in The Netherlands in September 2016, **Danielle Oorsprong**

#### Track 18: Food- and waterborne diseases and zoonoses (6): Surveillance systems

Moderator: Lisa Hansen

- 18.1. Evaluation of public health interventions for a national outbreak of Salmonella Enteritidis using a combination of epidemiological methods and whole genome sequencing, UK 2018, **Matt Edmunds**
- 18.2. Effect of culture-independent diagnostic tests on enteric disease surveillance, Wellington, New Zealand, **Craig Thornley**
- 18.3. Description of the norovirus laboratory data to inform a surveillance system in Denmark, **Monika Roberta Korcinska**
- 18.4. Patient foreign travel information in the Danish National Microbiological Database (MiBa), **Karsten D Bjerre**
- 18.5. Can syndromic surveillance systems operating in Public Health England detect subnational outbreaks of Cryptosporidiosis in the West Midlands?, **Monique Pereboom**
- 18.6. The benefit of whole-genome sequence-based typing in Public Health microbiology: retrospective analysis of human and food-associated L. monocytogenes isolates in Austria, 2017, **Adriana Cabal Rosel**

#### Track 19: Healthcare-associated infections (2): Surveillance 2

Moderator: Lieke Van Alphen

- 19.1. A single patient infection prevention record for Wales, **Mari Morgan**
- 19.2. Whole genome sequencing of Streptococcus pyogenes type emm89 from 2013 in Sweden reveals geographically distinct outbreak clusters, **Nina Lagerqvist**
- 19.3. Hip and knee joint infections after joint replacement surgery in Finnish hospitals, 1999-2016, **Jana Pratingerová**
- 19.4. Surveillance of M. chimaera invasive infections after cardiac surgery under cardiopulmonary bypass and survey on practices in matters of heater-cooler units (HCUs), **Côme Daniau**
- 19.5. EuroSCORE developed for predicting operative mortality for patients undergoing isolated coronary artery bypass grafting surgery do not predict surgical site infections in Norway, **Laura Espenhain**
- 19.6. Attributable mortality and excess length of stay due to surgical site infections following cholecystectomy, European Union/European Economic Area (EU/EEA), 2009-2015, **Tommi Kärki**

#### Track 20: Sexually transmitted infections (3): Intervention

Moderator: Aura Andreassen

- 20.1. Spontaneous clearance of urogenital, anorectal and oropharyngeal Chlamydia trachomatis and Neisseria gonorrhoeae in women, MSM and heterosexual men visiting the STI clinic, **Geneviève AFS van Liere**
- 20.2. Post-exposure prophylaxis for HIV after sexual exposure is a marker of future risk of sexually transmitted infections among heterosexual STI clinic attendees, **Paula Blomquist**
- 20.3. Success factors for vaccination completion in a targeted hepatitis B vaccination program directed at people using hard drugs, **Stijn Raven**
- 20.4. Uptake and Acceptability of Pre-exposure prophylaxis (PrEP) for HIV in Wales, March 2018, **Laia Fina**
- 20.5. Cardiovascular disease (CVD) risk factors in a local population of HIV positive patients, **Sarah Vella**
- 20.6. **Late breaker:** Lymphogranuloma venereum in men who have sex with men in Malta in 2018: an emerging problem, **Alastair Donachie**

#### Track 21: Vaccine- preventable diseases (3): Burden of disease

Moderator: Frantiska Hrubá

- 21.1. Rationale of maintaining the first dose of MMR at 18 months in Sweden, **Hélène Englund**
- 21.2. Increasing incidence of notified cases of Herpes zoster in the German federal state of Brandenburg 2009 to 2017, **Benjamin Tittmann**
- 21.3. Disease burden of neonatal invasive Group B Streptococcal infection in the Netherlands, **Brechje de Gier**
- 21.4. Assessing the burden of congenital rubella syndrome in Europe: A review of methods towards verifying elimination, **Alastair Donachie**
- 21.5. Mortality and causes of death analysis in Rabat commune, 2013-2015, **Hind Wadifi**
- 21.6. Analysis of mumps surveillance data of Cairo, Egypt from 2012 to 2017, **Hodaallah Yussuf**

#### Track 22: Vaccine- preventable diseases (4): Vaccine effectiveness

Moderator: Arnold Bosman

- 22.1. Seasonal influenza vaccination in French people with diabetes from 2006 to 2015: estimating transition probabilities from nonvaccinated to vaccinated and influencing factors using Markov model, **Sebastien Cortaredona**
- 22.2. Epidemiological impact on invasive pneumococcal disease of the 10-valent PCV as part of the Austrian childhood immunisation programme in children and adults, 2009-2017, **Lukas Richter**
- 22.3. Effectiveness and impact of the 13-valent pneumococcal conjugate vaccine against pneumococcal meningitis in European children under five years of age: results of SpIDnet multicentre study, **Camelia Savulescu**
- 22.4. Invasive pneumococcal disease in Latvia six years after PCV10 introduction, 2012-2017, **Larisa Savrasova**
- 22.5. Rethinking the efficacy of acellular pertussis vaccines for primary immunization, **Matthieu Domenech de Cellès**
- 22.6. Evidence of vaccine effect on pneumococcal meningitis cases in France: a geographical analysis, **Anna Alari**

#### Track 23: Policy approaches and evaluation

Moderator: Charmaine Gauci

- 23.1. A review of evaluations of the Norwegian Surveillance System for Communicable Diseases: Need for a systematic approach, **Astrid Løvlie**
- 23.2. Primary diphtheria immunisation for adults using a low dose vaccine: a literature review, **Theresa Enkirch**
- 23.3. Evaluating the completeness and timeliness of the surveillance system for invasive meningococcal disease (IMD) in the Netherlands, 2004-2016, **Diederik Brandwagt**
- 23.4. Impact of school education targeting vaccination on knowledge and intention to vaccinate of 14 year old schoolchildren in Tirol, Austria, **Peter Kreidl**
- 23.5. Immunization policymaking in the EU/EEA Member States: the complexity behind reality, **Mihai Alexandru Bica**
- 23.6. Seasonal influenza vaccine procurement systems in Europe, **Anke L. Stuurman**

#### Track 24: Late breakers

Moderator: Aftab Jasir

- 24.1. Outbreak of influenza B and group A streptococcal co-infection among international travellers on a coach tour of Scottish Highlands & Islands, May 2018, **Diogo F. P. Marques**
- 24.2. Investigation of screening sensitivity to improve sample collection during Acinetobacter baumannii outbreaks, 2018, **Amrei Krings**
- 24.3. A large foodborne outbreak of campylobacteriosis linked to schools of Pescara, Italy, May-June 2018, **Patrizio Pezzotti**
- 24.4. Spatial analysis as epidemiological investigations tools - the case of toxoplasmosis outbreak in Santa Maria, Rio Grande do Sul, Brazil, 2018, **Camila Ribeiro Silva**
- 24.5. Nationwide outbreak of puerperal group A streptococcal infection in the Netherlands, **Josy van den Boogaard**
- 24.6. Implementation of influenza POCT and influenza ward to improve hospital capacity and to reduce costs, **Suzanne Lutgens**