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Public Health Congress on Maritime Transport and Ports 2024: Innovations in infectious diseases control and occupational health

18 to 19 October 2024

STAZIONE MARITTIMA DI NAPOLI - CENTRO CONGRESSI

NAPLES

ITALY

AGENDA

Congress World

📍 27, Michalakopoulou str. 115 28 Athens • 📞 +30 210 7210001, +30 210 7222518

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PRESIDENT'S WELCOME MESSAGE

It is my great pleasure to announce that the international “Public Health Congress on Maritime Transport and Ports 2024: Innovations in infectious diseases control and occupational health”, organized by the EU SHIPSAN scientific association, will take place on 18-19 October 2024 in the historic city of Naples, Italy.

The Congress is being organized by the European Scientific Association for Health and Hygiene in Maritime Transport (EU SHIPSAN ASSOCIATION), in collaboration with Cruise Lines International Association (CLIA).

Governments, industry, and the scientific community work diligently to respond to emerging challenges and opportunities for the attainment of public health protection in the maritime transport sector.

The theme of this Congress will provide opportunities to exchange opinions, best practices, current research and innovation activities, as well as results in ports and in all ship types related to infectious disease prevention, mitigation and control; occupational health; maritime healthcare; environmental health and hygiene; and healthy ship design.

It is anticipated that the Congress will offer a venue for the shipping industry, academia, governmental officials, port administrations, marine companies, and related stakeholders to explore recent research findings, new scientific evidence, novel innovations and approaches for planning public health actions in the framework of green maritime operations.

The Congress proceeding papers will be published in the peer-reviewed journal indexed in Scopus, Population Medicine journal.

Let us all take the opportunity to network, enjoy and learn from each other during the “Public Health Congress on Maritime Transport and Ports 2024: Innovations in infectious diseases control and occupational health”.

We look forward to welcoming you in Naples, Italy in October 2024.

Christos Hadjichristodoulou

President of the EU SHIPSAN ASSOCIATION

Coordinator of HEALTHY SAILING, HEALTHY GATEWAYS & SHIPSAN ACT

Professor of Hygiene and Epidemiology

University of Thessaly, Greece

Day 1
Friday 18 October 2024

Room: Dione/Elettra

09.00-10.00 **Registrations**

10.00-11.20 **Round table**

Maritime occupational medicine: Known and emerging health risks and their management

Chairs: Despoina Andrioti Bygvraa, Jan Heidrich

Clinical management of severe allergic reactions on board ships

Nuno Tavares Lopes

Information on seafarer's working rhythm and exploration of fatigue of seafarers on channel ferries

Lukas Belz

Seafarer's Mental Health: Emerging Challenges and Management in Maritime Occupational Medicine

Gopi Battinenni

Asthma exacerbation on board ships

Aikaterini Antoniou

Questions and Answers

11.20-11.50 **COFFEE BREAK / E-Posters**

11.50-13.10 **Round table**

Horizon Europe HEALTHY SAILING project: Update on innovations in training activities and early threat detection in large passenger vessels

Chairs: Agnieszka Zaplatka, Barbara Mouchtouri

Augmented reality application in training activities for the maritime sector

Konstantinos Theofilis (NKUA)

Artificial intelligence for early threat detection on board large passenger vessels and Electronic Surveillance System

Smaragda Reppa (NKUA), Spyros Athanasiadis (ICCS), Stefanos Chatzimichelakis (ICCS)

Analysis of infection chain in the cruise ship environment and evidence-based interventions

Barbara Mouchtouri (EU SHIPSAN Association)

Incorporating risks arising from communicable diseases onboard in maritime risk analysis and assessment: methodology adaptation and examples

Nikolaos Ventikos (NTUA)

Questions and Answers

13.10-14.10 **LUNCH BREAK**

Day 1

Friday 18 October 2024

14.10-15.30 Round table

Diagnosics, vaccines and ship medicine chest

Chairs: Mauro Dionisio, Emmanuel Symvoulakis

Specificities of medical operations in expedition vessels

Antonello Campagna

Vaccination of seafarers and passengers & Clinical Decision Support - synergies of HEALTHY SAILING and EUVABECO projects

Lemonia Anagnostopoulou

HEALTHY SAILING inventory of point-of-care analyzers

Ioanna Voulgaridi

Questions and Answers

15.30-16.00 COFFEE BREAK / E-Posters

16.00-17.30 Round table

Dialogue forum for Global Collaboration in health and hygiene in cruise ships

Chairs: Roberta Andraghetti, Christos Hadjichristodoulou

Amendments to the International Health Regulations: What are the new obligations for governments, port and ship operators and the proposal for the WHO Pandemic Agreement

Roberta Andraghetti

Global panel discussion:

Barbara Mouchtouri (EU SHIPSAN Association)

Li-Li Ho (Taiwan CDC)

Rachdi Abderrahim (Morocco)

Yahya Alamese (Turkey)

Luis O. Rodriguez (USA)

Louis Franks (UK)

Questions and Answers

18.00-18.30 Opening ceremony

Welcome messages

Day 1
Friday 18 October 2024

Room: Calipso

10.00-11.10 Round table

Health and hygiene in inland navigation vessels

Chairs: Thijs Veenstra, Mathias Kalkowski

Addressing Infectious Disease on European River Cruises: The Need for Tailored Prevention and Control Strategies

Thijs Veenstra

Specificities in health and hygiene

Tanja Hartog

Outbreak management in inland cruise ships

Nicolae Victor Hila

Questions and Answers

11.10-11.40 COFFEE BREAK / E-Posters

11.40-13.00 Oral Presentations - Thematic Session:

Environmental Health and Hygiene

Chairs: Andrea Smith, Areti Lagiou

Lecture

The Role of Public Health Personnel on Cruise Ships

Emily Barton, Jennifer Snow

Questions and Answers

Lecture

Current research findings and innovations in food safety: the case of traceability in the food chain

Eleni Malissiova

Questions and Answers

Case study on water quality in ships from 2022 to 2024 at a strategic European port

Nuno F. R. Rodrigues, Rachel F. B. O. Valois, Ana S. F. de Jesus, Joana G. Silva, Márcia I. R. Balazeiro, Miguel A. T. Maia, Maria F. A. F. Sousa

Public Health Unit, Local Health Unit of Matosinhos, Matosinhos, Portugal

Decarbonization of the Maritime Industry: Challenges, Technological Innovations, and Policy Frameworks

Olalekan John Okesanya

Faculty of Medicine, Department of Public Health and Maritime Transport, University of Thessaly, Volos, Greece

Day 1

Friday 18 October 2024

11.40-13.00 Oral Presentations - Thematic Session:

Development of an artificial intelligence water safety plan tool for large passenger ships

**Leonidas Kourentis^{1,2}, Smaragda Reppas³, Vassilis Papataxiarhis³,
Lemonia Anagnostopoulos^{1,2}, Christos Hadjichristodoulou^{1,2}, Varvara A.
Mouchtouri^{1,2}**

¹Department of Hygiene and Epidemiology, Faculty of Medicine, University of Thessaly, Larissa, Greece

²EU SHIPSAN scientific association, Larissa, Greece

³Department of Informatics and Telecommunications, National and Kapodistrian University of Athens, Greece

Challenges in cleaning and disinfection on board large passenger vessels

Sotirios Vasileiadis

Department of Hygiene and Epidemiology, Faculty of Medicine, University of Thessaly, Greece

Questions and Answers

13.00-14.00 LUNCH BREAK

14.00-15.30 WORKSHOP

Health and hygiene in the maritime transport and port terminal sectors: Operator's perspective

Chairs: Barbara Mouchtouri, Jethro Beck, Miguel Dávila Cornejo

Presentations:

Port operators panel discussion:

**Rosa Maria Russo (Naples), Minas Papadakis (Heraklion),
Dario Barbarić (MedCruise)**

Large passenger vessel operators panel discussion: Public Health and Sustainability Considerations

Mel Skipp (CLIA, Carnival Corporation Plc)

Pierfrancesco Lepore (MSC Cruises)

Jaakko Yli-Piipari (Viking Cruises)

Vassilios Gazikas (Celestyal Cruises)

Kaitlyn West (Columbia Signature)

Questions and Answers

15.30-16.00 COFFEE BREAK / E-Posters

Day 1
Friday 18 October 2024

16.00-17.00 Oral Presentations - Thematic Session:

Inspections

Chairs: **Mario Camilleri, Boris Kopilovic**

Lecture

Vector surveillance at PoE and on ships - integrated pest management with focus on bedbugs

Antonios Michaelakis

Intervention/Comment: **Emily Barton**

Questions and Answers

Ship Sanitation Inspection and Issuance of Ship Sanitation Certificates in Taiwan from 2018 to 2022 under the International Health Regulations (IHR 2005): Impact of the COVID-19 Pandemic

Hsin-Ju Chang, Kai-Di Yu, Bo-Hao Chen, Yi-Li Shih, Jiun-Shian Kuo, Li-Li Ho

Division of Quarantine, Taiwan Centers for Disease Control, Ministry of Health and Welfare, Taipei, Taiwan

SHIPSAN Routine Inspections between 2018 and 2024

Eleni P. Christoforidou

Laboratory of Hygiene and Epidemiology, Faculty of Medicine, University of Thessaly, Greece

Questions and Answers

Day 1
Friday 18 October 2024

17.00-18.00 Oral Presentations - Thematic Session:

Norovirus Gastroenteritis, COVID-19, influenza and other infectious diseases

Chairs: Jaret Ames, Evangelia Nena

Successful management of a cruise ship: norovirus outbreaks: experience and lessons learned

A. Campagna¹, M. Latorre¹, A. Camoriano¹, A. Mofferdin¹, G. Cosini², A. Isaja³, E. Barton³ N. Tavares Lopez³

¹Liguria Health Port Authority, (USMAF) Genova, Italy

²Ship Master Carnival Maritime

³Medical and Public Health Carnival Maritime, Hamburg Germany

Public health management of a recurrent norovirus outbreak on a cruise ship

Anjali K Pai¹, Nagpal Hoysal²

¹South East Health Protection Team, United Kingdom Health Security Agency (UKHSA), South East England, United Kingdom

²Border Health Team, UKHSA, England, United Kingdom

Reducing diagnostic delays is key for norovirus control on cruise ships

Alfredo De Belli^{1,2}, Andrea Bizzotto^{1,2}, LEMONIA Anagnostopoulou³, Leonidas Kourentis³, Valentina Marziano¹, Barbara Mouchtouri³, Stefano Merler¹, Giorgio Guzzetta¹

¹Center for Health Emergencies, Fondazione Bruno Kessler, Italy

²Department of Mathematics, University of Trento, Italy

³Department of Hygiene and Epidemiology, University of Thessaly, Greece

Controlling infectious diseases in Moroccan ports Example of COVID-19 response Tanger-Med

Rachdi Abderrahim

Ministry of Health and Social Protection

Day 1

Friday 18 October 2024

Mapping the literature for the passenger shipping industry

Lemonia Anagnostopoulos^{1,2}, Sotirios Vasileiadis^{1,2}, Leonidas Kourentis^{1,2,3}, Zacharoula Bogogiannidou^{1,2}, Ioanna Voulgaridi^{1,2}, Gordon Nichols¹, Fani Kalala⁴, Matthaios Speletas⁴, Christos Hadjichristodoulou^{1,2} and Varvara A. Mouchtouri^{1,2,3}

¹Laboratory of Hygiene and Epidemiology, Faculty of Medicine, University of Thessaly, Greece

²HEALTHY SAILING project, Greece

³EU SHIPSAN Scientific Association, Greece

⁴Department of Immunology & Histocompatibility, Faculty of Medicine, University of Thessaly, Greece

Questions and Answers

Day 2

Saturday 19 October 2024

Room: Dione/Elettra

10.00-10.30 Lecture

Chairs: **Christos Hadjichristodoulou**

Sustainability and maritime health operations

Jethro Beck

Questions and Answers

10.30-11.40 Round table

Horizon Europe Healthy Ship for You project (HS4U): update on innovations in healthy ship design

Chairs: **Dimitrios Lyridis**

HS4U scenarios and architecture

Dimosthenis Akouros

Digital tools creation in the HS4U project

Amalia Ntemou

Sampling methodologies and device in the HS4U project

Kyriaki Kokona

Sick Ships: A Discussion on Historical Cases and Optimization for the Future

Stamatina Rassia

Questions and Answers

11.40-12.10 COFFEE BREAK / E-Posters

12.10-13.40 Round table

Respiratory infections on board ships: redefining airborne transmission and latest research finding

Chairs: Jaap Boreel, Niko Siilin

The airborne transmission of respiratory pathogens

Giorgio Buonanno

Studying droplet and aerosol dispersion in confined spaces with mathematical modelling

John Ewer

The cruise industry perspective in managing respiratory infections

Mel Skipp

Innovations in ventilation systems to prevent airborne transmission

Niko Siilin

Questions and Answers

13.40-14.40 LUNCH BREAK

14.40-16.10 Round table

Acute gastroenteritis in cruise ships: Innovations and latest research findings

Chairs: Jaret Ames

Improving surface disinfection in the maritime environment: Toolkit for ensuring effective disinfection by HEALTHY SAILING

Barbara Mouchtouri

Risk factors for acute gastroenteritis spread in cruise ships and findings from behavioural science research

Lemonia Anagnostopoulou

Improving hand hygiene in large passenger vessels: Evidence from HEALTHY SAILING research

Szava Julia Bansaghi

The cruise industry perspective

Pierfrancesco Lepore

Questions and Answers

16.10-16.30 COFFEE BREAK / E-Posters

16.30-16.45 Closing Remarks

17.00-19.00 HEALTHY SAILING GENERAL ASSEMBLY

Day 2

Saturday 19 October 2024

Room: Calipso

10.00-11.30 Round table

EU SHIPSAN inspection and training activities

Chairs: **Mauro Dionisio, Miguel Dávila Cornejo**

Progress on the revision of the European Manual for hygiene standards and communicable disease surveillance on passenger ships

Leonidas Kourentis

Questions and Answers

An update on the EU Common Ship Sanitation Database update, upgrade and legal framework

Nick Bitsolas

Questions and Answers

EU MS panel discussion on SSC inspections and SHIPSAN inspections

Rob Verbist (Belgium)

Tomi Jormanainen (Finland)

Antonios Papadakis (Greece)

Gavin McDonnell (Ireland)

Mauro Dionisio (Italy)

Erika Grigorevice, Brigita Kairiene (Lithuania)

Thijs Veenstra (The Netherlands)

Miguel Dávila Cornejo (Spain)

Questions and Answers

11.30-12.00 COFFEE BREAK / E-Posters

Day 2
Saturday 19 October 2024

Room: Calipso

12.00-13.00 Oral Presentations - Thematic Session:

Crew occupational health

Chairs: Evangelia Nena, Jan Heidrich

Lecture

The contribution of social and behavioral sciences in improving infectious diseases management in the maritime sector

Despoina Andrioti Bygvraa

Questions and Answers

A Descriptive Study of Respiratory Diseases among Seafarers based on the Contacts from Ships to the Italian Telemedical Maritime Assistance Service Center between 2021 and 2023

Getu Gamo Sagaro^{1,2}, Gopi Battineni¹, Francesco Amenta^{1,3}

¹School of Medicinal and Health Products Sciences University of Camerino, Camerino, Italy

²School of Public Health, College of Health Sciences and Medicine, Wolaita Sodo, University, Sodo, Ethiopia

³International Radio Medical Center (C.I.R.M.), Research Department, Rome, Italy

Epidemiological Analysis of Occupational Diseases among Seafarers between 2022 and 2023

Getu Gamo Sagaro^{1,2}, Antonio Arcese³ and Francesco Amenta^{1,3}

¹School of Medicinal and Health Products Sciences University of Camerino, Camerino, Italy

²School of Public Health, College of Health Sciences and Medicine, Wolaita Sodo University, Sodo, Ethiopia

³International Radio Medical Center (C.I.R.M.), Research Department, Rome, Italy

Day 2

Saturday 19 October 2024

Room: Calipso

Factors affecting the microbiological and chemical quality of potable water on non-passenger ships

Leonidas Kourentis^{1,2}, Lemonia Anagnostopoulos^{1,2}, Ioanna Voulgaridi¹, Stamatia Koakkali¹, Katerina Kontouli¹, Zafeiris Tsinaris¹, Achilleas P. Galanopoulos^{1,3}, Diederik Van Reusel⁴, Raf Van den Bogaert⁴, Björn Helewaut⁴, Inge Steenhout⁴, Hasse Helewaut⁴, Dion Damman⁵, Christos Hadjichristodoulou^{1,2} and Varvara A. Mouchtouri^{1,2}

¹Department of Hygiene and Epidemiology, Faculty of Medicine, University of Thessaly, Larissa, Greece

²EU SHIPSAN Scientific Association, Larissa, Greece

³Department of Immunology & Histocompatibility, Faculty of Medicine, University of Thessaly, Larissa, Greece

⁴Seaport Cell, Antwerp, Belgium

⁵Federal Environmental Inspection (Biocides and Pesticides, Dangerous Products), Federal Public Services Health, Safety of the Food Chain and Environment, Brussel, Belgium

Shipsan training activities - enhancing capacity building of ship crew and public health authorities

Elina Kostara¹, Leonidas Kourentis¹, Nick Bitsolas¹, Lemonia Anagnostopoulos¹, Sotiris Vasileiadis¹, Eleni Christoforidou¹, Eleni Hatzivasileiou¹, Maria Hatzichristodoulou¹, Ioanna Voulgaridi¹, Jaret Ames¹, Charles S. Otto¹, Mauro Dionisio², Miguel Davila³, Christos Hadjichristodoulou¹, Varvara Mouchtouri¹

¹Laboratory of Hygiene and Epidemiology, University of Thessaly, EU SHIPSAN scientific association, Larissa, Greece

²Directorate General for Health Prevention Ministry of Health, Rome, Italy

³Deputy Directorate of Foreign Health, Directorate General for Public Health, Ministry of Health, Madrid, Spain

Questions and Answers

13.00-14.00 **LUNCH BREAK**

Day 2
Saturday 19 October 2024

Room: Calipso

14.00-15.00 Oral Presentations - Thematic Session:

Preparedness and response to infectious diseases

Chairs: Mairin Boland, Christos Papadopoulos

Perspectives of international cooperation in maritime medicine.

The role of the International Maritime Health Foundation

Nebojša Nikolić

President of the Management Board, International Maritime Health Foundation

Port Capacities and Challenges in Infectious Disease Preparedness and Response in the Eastern Mediterranean Region (EMR)

Dalia Samhouri¹, Fatima Arifi², Ninglan Wang³

¹Lead Health Specialist, Pandemic Fund World Bank

²Technical Officer, WHO Health Emergencies Programme, WHO Regional Office for the Eastern Mediterranean, Cairo, Egypt

³Unit Head, Country Readiness Strengthening department, Health Emergencies Programme, World Health Organization Headquarter, Geneva

Training needs for stakeholders dealing with infectious hazards in German ports - results of a qualitative study

Marie Frese¹, Julian Bäßler¹, Sarah Gueye¹, Lena Ehlers², Matthias Boldt², Jette Zimmermann¹, Martin Dirksen-Fischer², Volker Harth¹, Jan Heidrich¹

¹Institute for Occupational and Maritime Medicine (ZfAM), University Medical Center Hamburg, Germany

²Hamburg Port Health Center, Institute of Hygiene and Environment, Hamburg, Germany

Development of evidence-based vaccination guidelines for infectious disease prevention on large passenger ships

Georgios Papageorgas Chrelias

Laboratory of Hygiene and Epidemiology, University of Thessaly, Larissa, Greece

Exploitation of the Open-Source European Union Digital Passenger Locator Form (EUdPLF) for the maritime transport

Elina Kostara¹, Nick Bitsolas¹, Eleni Hadjivasileiou¹, Leonidas Kourentis¹, Varvara A. Mouchtouri¹, Christos Hadjichristodoulou¹

¹Laboratory of Hygiene and Epidemiology, University of Thessaly, EU SHIPSAN scientific association, Larissa, Greece

Day 2

Saturday 19 October 2024

Room: Calipso

Analysis of data from International Health Regulations Ship Sanitation Certificates in the EU common ship sanitation database

Nick Bitsolas¹, Leonidas Kourentis¹, Eleni P. Christoforidou¹, Mauro Dionisio², Miguel Dávila-Cornejo³, Antonis Kantonis⁴, Boris Kopilovic⁵, Erika Grigorevičė⁶, Iveta Dubrovova⁷, Martina Pilková⁷, Mairin Boland⁸, Martin Dirksen-Fischer⁹, Natalja Vozelevskaja¹⁰, Raf Van Den Bogaert¹¹, Thijs Veenstra¹², Jaret Ames¹, Christos Hadjichristodoulou¹, Varvara Mouchtouri¹

¹Department of Hygiene and Epidemiology, Faculty of Medicine, University of Thessaly, Larissa, Greece

²Ministry of Health, Directorate General for Health Prevention, Italy

³Ministry of Health, Directorate General for Public Health, Spain

⁴Ministry of Health, Food Control and Environmental Health Services, Cyprus

⁵National Institute of Public Health, Slovenia

⁶National Public Health Centre, Lithuania

⁷Ministry of Transport and Construction, Slovak Republic

⁸Public Health Medicine, Health Services Executive, Ireland

⁹Hamburg Port Health Center, Germany

¹⁰Health Board, Department of CD Surveillance and Control, Estonia

¹¹Saniport Public Health Authority, Belgium

¹²National Institute of Public Health and the Environment, The Netherlands

Questions and Answers

Day 2

Saturday 19 October 2024

Room: Calipso

15.00-16.00 Oral Presentations - Thematic Session:

Cross-border health threats related to maritime transport sector

Chairs: Christos Papadopoulos, Brigita Kairiene

Reintroduction of Aedes aegypti, a current open challenge. Cross-border health measures at the Italian Ports

Cristian Ferrao¹, Emanuela M. Frisicale¹, Federica Ferraro¹, Devis Antonelli¹, Lanfranco Iodice², Francesco Maraglino¹, Antonio Salzano¹, Collaborating group* and Francesco Vaia¹

Collaborating Group. *USMAF-SASN Drafting Circular Collaborating group: Barbra Bucci, Anna Camoriano, Davide Castrianni, Antonello Campagna, Antonio Collovà, Massimo Coluciello, Margherita Congiu, Alberto D'Annunzio, Emma Elefante, Teresa Esposito, Anita Farre, Margherita Ghezzi, Angela Larosa, Angela Longo, Luca Mascolo, Antonella Mofferdin, Paolo Niutta, Piero Nozzolillo, Antonio Prudente, Enrico Pepiciello, Vincenzo Severino, Valeria Velardita, Stefano Venegoni

¹Ex Directorate General of Health Prevention, Ministry of Health, Rome, Italy

²Cross Border Health Office (USMAF-SASN) Naples harbor, Naples, Italy

Acute gastroenteritis in large passenger vessels

Lemonia Anagnostopoulos^{1,2}, Sotirios Vasileiadis^{1,2}, Leonidas Kourentis^{1,2,3}, Ioanna Voulgaridi^{1,2}, Varvara A. Mouchtouri^{1,2,3}

¹Laboratory of Hygiene and Epidemiology, Faculty of Medicine, University of Thessaly, Greece

²HEALTHY SAILING project, Greece

³EU SHIPSAN Scientific Association, Greece

Piloting a syndromic diagnostic testing system on board a cruise ship: Assessing system performance in a passenger ship environment

Lemonia Anagnostopoulos^{1,2}, Ioanna Voulgaridi^{1,2}, Maria Kyritsi^{1,2}, Varvara A. Mouchtouri^{1,2,3}

¹Laboratory of Hygiene and Epidemiology, Faculty of Medicine, University of Thessaly, Greece

²HEALTHY SAILING project, Greece

³EU SHIPSAN Scientific Association, Greece

Day 2

Saturday 19 October 2024

Room: Calipso

Respiratory infections in large passenger vessels

Lemonia Anagnostopoulos^{1,2}, Sotirios Vasileiadis^{1,2}, Leonidas Kourentis^{1,2,3}, Ioanna Voulgaridi^{1,2}, Varvara A. Mouchtouri^{1,2,3}

¹Laboratory of Hygiene and Epidemiology, Faculty of Medicine, University of Thessaly, Greece

²HEALTHY SAILING project, Greece

³EU SHIPSAN Scientific Association, Greece

Syndromic surveillance for the passenger shipping sector

Leonidas Kourentis^{1,2}, Varvara A. Mouchtouri^{1,2}, Athanasios Lianos¹, Katerina Maria Kontouli¹, Lemonia Anagnostopoulos^{1,2}, Zacharoula Bogogiannidou¹, Ioanna Voulgaridi¹, Carmen Varela Martínez³, Maria Guerrero Vadillo³, Flavia Riccardo⁴ and Patrizio Pezzotti⁴, Pierfrancesco Lepore⁵, Vassilios Gazikas⁶, Christos Hadjichristodoulou^{1,2}

¹Department of Hygiene and Epidemiology, Faculty of Medicine, University of Thessaly, Larissa, Greece

²EU SHIPSAN Scientific Association, Larissa, Greece

³Instituto de Salud Carlos III, Spain

⁴Istituto Superiore di Sanità, Italy

⁵MSC Cruise Management Limited, United Kingdom

⁶Celestyal Ship Management Limited, Cyprus

Updated EU legislation for the European manual for hygiene standards and communicable diseases surveillance on passenger ships

Amalia Kostara

Laboratory of Hygiene and Epidemiology, Faculty of Medicine, University of Thessaly, Greece

Questions and Answers

16.00-16.30 **COFFEE BREAK / E-Posters**

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Anagnostopoulou Lemonia	PhD Candidate, Laboratory of Hygiene and Epidemiology, Faculty of Medicine, University of Thessaly, Greece
Andraghetti Roberta	Technical Officer, Secretariat for the International Health Regulations (2005), WHO Health Emergencies Programme (WHE), World Health Organization (WHO), Switzerland
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Barbarić Dario	Head of the Department for Security, Development and Maintenance of Port Infrastructure and Environmental Protection at the Port of Dubrovnik, Croatia, responsible for Health, Safety, and Security as a member of the Board of Directors at MedCruise
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FACULTY

Battinenni Gopi	Doctor, Clinical Research Centre, School of Medicinal and Health Products Sciences, University of Camerino, Camerino, IT
Beck Jethro	Captain, VP Global Maritime Policy, Cruise Lines International Association (CLIA), USA
Belz Lukas	Research fellow, Center for Psychosocial Medicine Professorship of Occupational Medicine and Maritime Medicine, Germany
Bitsolas Nick	MSc, IT Professional, University of Thessaly, Greece
Boland Mairin	MD, Consultant in Public Health Medicine and National Clinical Lead, HSE Health Security Programme, Professor [Adjunct], UCD School of Public Health, Physiotherapy & Sports Science, University College Dublin
Boreel Jaap	MD, MSc Control of Infectious Diseases, Surgeon Commander (retired) Royal Netherlands Navy, Dept of Infectious Diseases, Amsterdam Public Health Services, Netherlands
Buonanno Giorgio	Full professor of Applied Thermodynamics, Deputy Rector (Applied Research and PhD), University of Cassino and Southern Lazio, Italy
Camilleri Mario	Executive Environmental Health Practitioner, Port Health Services Malta
Campagna Antonello	MD, MPH, Liguria Health Port Authority, President of Italian Society, Maritime Medicine and Public Health, Italy
Chatzimichelakis Stefanos	Developer, Institute of Communication and Computer Systems (ICCS), Greece
Dávila Cornejo Miguel	Doctor Deputy Assistant Director of Foreign Health, Deputy Directorate of Foreign Health, Directorate General of Public Health and Equity in Health, Ministry of Health, Madrid (Spain)
Dionisio Mauro	Senior Medical Officer, Ministry of Health - General Directorate for Health Prevention, Italy

FACULTY

Ewer John	Associate Professor in Applied Fire Safety Engineering / Senior Researcher in Aerosol Dispersion Modelling, University of Greenwich / Centre for Safety, Resilience and Protective Security, UK
Franks Luis	CEnvH, MCIEH, Chartered Environmental Health Practitioner, BSc Environmental Health – Executive Lead, The Association of Port Health Authorities and London Port Health Authority, UK
Gazikas Vassilios	Captain, Director of Marine Operations, Optimum Ship Management
Grigorevice Erika	Public health specialist, Head of the Medical Quarantine Division, National Public Health Center under the Ministry of Health, Klaipeda Department, Lithuania
Hadjichristodoulou Christos	President of the EU SHIPSAN ASSOCIATION, Coordinator of the EU joint actions HEALTHY GATEWAYS & SHIPSAN ACT Professor of Hygiene and Epidemiology University of Thessaly, Greece
Hartog Tanja	Infection Control Expert, Public Health Service Kennemerland, The Netherlands
Heidrich Jan	Senior scientist, Institute for Occupational and Maritime Medicine, University Medical Center Hamburg-Eppendorf, Germany
Hila Nicolae Victor	Doctor in Epidemiology, Fleet Health Officer, Assigned Representative of IG River Cruise, Romania
Ho Li-Li	Division Director, Division of Quarantine Centers for Disease Control, Ministry of Health and Welfare, TAIWAN, R.O.C.
Jormanainen Tomi	Health Inspector / Ship Sanitation, Environmental Health Protection Unit, City of Porvoo, Finland
Kairiene Brigita	Adviser of Quality Management and Communication Division, National Public Health Centre under The Ministry of Health, Lithuania
Kalkowski Mathias	Port Health Inspector, SHIPSAN Inspector, Hamburg Port Health Authority, Germany

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Kokona Kyriaki	Certification Compliance Engineer, Certification Dpt, RWO Water Technologies, Greece
Kopilović Boris	M.D. specialist in occupational medicine and specialist in public health, Slovenia
Kourentis Leonidas	Researcher (PhD Candidate), Laboratory of Hygiene and Epidemiology, Faculty of Medicine, University of Thessaly, Greece
Lagiou Areti	Msc, PhD, Professor, Member of the Board of Directors of the University of West Attica, Head of the Laboratory of Hygiene and Epidemiology, Department of Public and Community Health School of Public Health, University of West Attica, Greece
Lepore Pierfrancesco	Vice President Public Health and Medical Public Affairs, MSC Cruise Management UK LTD
Lyridis Dimitrios	Professor, National Technical University of Athens, School of Naval Architecture & Marine, Engineering Laboratory for Maritime Transport, Director, Greece
Malissiova Eleni	DVetMed, MSc, MSc, PhD, Associate Professor in Food of Animal Origin Quality, Safety And Technology, Animal Science Department, University of Thessaly, Greece
McDonnell Gavin	Senior Environmental Health Officer, National Support Unit, Port Health and Emerging Threats, Health Service Executive, Border Control Post, Corballis Park, Dublin Airport, Ireland
Michaelakis Antonios	Doctor, Head Research Scientist-Entomologist, Benaki Phytopathological Institute, & Alternate member of the Board of Directors for the Hellenic National Public Health Organization, Greece
Mouchtouri Barbara	Vice-President of the EU SHIPSAN ASSOCIATION Associate Professor of Hygiene and Epidemiology, University of Thessaly, Greece
Nena Evangelia	MD, PhD, Associate Professor of Social and Occupational Medicine, Head of the Laboratory of Social Medicine Medical School Democritus University of Thrace, Greece

FACULTY

Ntemou Amalia	Project Manager, Research & Innovation Development, Netcompany-Intrasoft, Greece
Papadakis Antonios	Director of Public Health, Region of Crete /Directorate of Public Health, Greece
Papadakis Minas	CEO of Heraklion Port Authority SA
Papadopoulos Christos	Doctor of Public Health and Social Medicine, Public Health Medical Director Head of the Directorate of Public Health & Social Care, Kavala, Greece
Rassia Stamatina	Doctor, Head of Le.D.R.A. Group, University of Cambridge (PhD & MPhil), NTUA (DipArchEng)
Reppa Smaragda	Researcher, University of Athens, Greece
Rodriguez O. Luis	Chief, Vessel Sanitation Program, U.S. Centers for Disease Control and Prevention, U.S.A.
Russo Maria Rosa	Doctor, M.D.Maritime, Air and Border Health Office Director, USMAF-SASN, Campania Sardinia
Siilin Niko	M.Sc. (Tech), VTT Technical Research Centre of Finland, Espoo, Finland
Skipp Mel	Director, Public Health Policy, Carnival Corporation & plc, UK
Smith Andrea	BSc (Hons), MBA, FCIEH, CEnvH, Vice Chair of the Association of Port Health Authorities, Chief Port Health Officer at Manchester Port Health Authority.
Snow Jeniffer	MPH, CPHI(C), FRSPH Senior Manager, Public Health - Health Services, Carnival UK
Symvoulakis Emmanuel	Associate Professor of Primary Health Care, Head of the Clinic of Occupational Medicine and Director of the Clinic of Preventive Social Medicine (after assignment), Department of Social Medicine, School of Medicine, University of Crete, Greece
Tavares Lopes Nuno	Director of Medical & Public Health, MD, MPH, MBA, Carnival Maritime, Hamburg, Germany

FACULTY

- Theofilis Konstantinos** Research Software Engineer, NKUA, Athens
- Veenstra Thijs** Senior Policy Adviser, National Institute for Public health and the environment, The Netherlands
- Ventikos Nikolaos** Professor, School of Naval Architecture and Marine Engineering National Technical University of Athens (NTUA), Greece
- Verbist Rob**
- Voulgaridi Ioanna** Medical Biopathology - Microbiologist (MD, MSc). My affiliation is with the Laboratory of Hygiene and Epidemiology, School of Medicine, University of Thessaly, Larissa, Greece
- West Kaitlyn** MPH, Head of Public Health, Columbia Cruise services, Hamburg
- Yli-piipari Jaakko** Mc.S (Econ), Director, Public Health Operations & Development, Viking, Switzerland
- Zaplatka Agnieszka** Project Officer, European Climate, Infrastructure and Environment Executive Agency (CINEA), Brussels, Belgium