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UNDER THE AUSPICES OF THE



HELLENIC REPUBLIC

MINISTRY OF HEALTH
MINISTRY OF MARITIME
AFFAIRS AND INSULAR POLICY
MINISTRY OF TOURISM



University of Thessaly,
Greece

Public Health Congress on Maritime Transport and Ports 2022:

sailing to the post-COVID-19 era

2022 OCTOBER
21 & 22

Greece

VENUE: Eugenides Foundation
Athens, Greece

ATTEND IN-PERSON
or WATCH ONLINE

www.SHIPSANcongress.eu

**Best practices, research
and innovation in ports
and all types of ships:**

- Environmental health and hygiene
- Prevention of foodborne, waterborne and vector-borne diseases
- Gastroenteritis, COVID-19, influenza and other vaccine-preventable diseases
- Crew occupational health
- Cross-border health threats related to maritime transport sector
- Preparedness and response to infectious diseases

Scientific Programme

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President's Welcome Message



It is my great pleasure to welcome you to the international “Public Health Congress on Maritime Transport and Ports 2022: sailing to the post-COVID-19 era” that takes place on 21-22 October 2022 in the historic city of Athens, Greece.

The inaugural congress is being organised by the European Scientific Association for Health and Hygiene in Maritime Transport (EU SHIPSAN ASSOCIATION), in collaboration with Cruise Lines International Association (CLIA) and the Association of Mediterranean Cruise Ports (MedCruise).

The aim of the event is to bring together expert, scientists, researchers, governmental officials, the maritime industry, port administrations, as well as the related stakeholders to discuss best practices and current research and innovation activities and results in ports and in all types of ships of issues related to i) environmental health and hygiene, ii) prevention of foodborne, waterborne and vector - borne diseases, iii) Norovirus gastroenteritis, COVID-19, influenza and other vaccine - preventable diseases, iv) crew occupational health, v) cross - border health threats related to maritime transport sector and vi) preparedness and response to infectious diseases.

The governments, the scientific community, as well as the industry have taken actions to prevent, mitigate and control public health events during routine operations on board ships and at ports, as well as during emergencies. Example of routine events are outbreaks of acute gastroenteritis, varicella, Legionellosis, measles, dengue, meningitis, tuberculosis, chickenpox and influenza like illness. Past emergencies including the H1N1 influenza pandemic (2009), the Ebola Virus Disease outbreak (2014) and the Zika Virus Disease outbreak (2016) revealed the necessity for preparedness to public health events of the shipping industry, the ports and the related industries. The current COVID-19 pandemic impacted greatly ship and port operations and demonstrated the necessity for continuing efforts to prepare and respond to public health events related to maritime travel and to control cross-border disease spread. The COVID-19 pandemic's impact on maritime transport, and particularly on passenger shipping has been devastating as globally implemented border closures and other public health measures in response to COVID-19 led to movement restrictions of passengers and crew, while also influencing international trade.



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Greece

Given the unprecedented challenges faced by the maritime transport sector in responding to COVID-19 and the ongoing public health challenges faced, a need has emerged for maritime transport stakeholders including ports, the shipping industry and governments to engage in discussions, share experiences and reflect on lessons learned during past public health events and especially over the last two years. As we look forward to a post-COVID-19 era, it is critical for us to use lessons learned and knowledge gained as a foundation for best practices, that can be used to revise public health emergency contingency plans and improve preparedness and response at ports and on-board ships.

Let us all take the opportunity to network, enjoy and learn from each other during the Public Health Congress on Maritime Transport and Ports.

Christos Hadjichristodoulou

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

Organization

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University of Thessaly,
Greece

Organising Committee

President

Assoc. Prof. Varvara Mouchtouri

University of Thessaly, Greece

Members of the Organising Committee

Ms. Figan Ayan

MedCruise Association

Mr. Aziz Güngör

MedCruise Association, Turkey

Mrs. Brigita Kairiene

National Public Health Centre under The Ministry of Health, Lithuania

Mr. Nikos Mertzanidis

Cruise Line International Association, Europe

Mrs. Maria Deligianni

Cruise Lines International Association (CLIA) Europe

Dr. Jan Heidrich

Institute for Occupational and Maritime Medicine, University Medical Center Hamburg - Eppendorf, Germany

Dr. Boris Kopilović

National Institute of Public Health, Slovenia

Dr. Iratxe Moreno

Ministry of Health, Spain

Dr. Mauro Dionisio

Ministry of Health, Directorate General for Health Prevention, Italy

Mrs. Aimilia Papachristou

Secretary General MedCruise

Prof. Jenny Kremastinou

National School of Public Health, Greece

Dr. Janusz Janiec

National Institute of Public Health NIH - National Research Institute, Poland

Mr. Finan Gallagher

Health Services Executive - Republic of Ireland, Republic of Ireland

Dr. Corien Swaan

RIVM - National Coordination Centre for Communicable Disease Control (LCI), Netherlands

Prof. Areti Lagiou

Laboratory of Hygiene and Epidemiology Dept. of Public and Community Health School of Public Health, University of West Attica Greece, Greece

Mr. Tomi Jormanainen

Environmental Healthcare Services, City of Porvoo, Finland

Committees

Scientific Committee

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EU SHIPSAN ASSOCIATION, University of Thessaly, Greece

Vice Chairman

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Institute for Occupational and Maritime Medicine, Germany

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Institute of Communications and Computer Systems, Greece

Capt. Jaret Ames

EU HEALTHY GATEWAYS joint action, United States of America

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Ministry for Health, Malta

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University of West Attica/Dp. Public and Community Health, Greece

Ms. Emily Barton

Carnival Maritime Group, Germany

Dr. Mairin Boland

Health Service Executive /Health protection Surveillance Centre, Ireland

Dr. Raquel Bono

Viking, Switzerland

Dr. Clive Brown

Division of Global Migration and Quarantine/CDC, United States of America

Associate Professor

Despena Andrioti Bygvraa

School of Public Health and Community Medicine, Department of Medicine, Sahlgrenska Academy, University of Gothenburg, Sweden

Prof. Evangelia Chryssikou

The Bartlett School of Sustainable Construction, University College London, United Kingdom

Dr. Sebastian Crespi

Biolinea Int., Spain

Prof. Theodore Dardavesis

Department of Medicine Aristotle University of Thessaloniki - A.U.TH., Greece

Dr. Miguel Dávila Cornejo

Ministry of Health, Spain

Scientific Committee

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Federal Public Service Health, Food chain Safety and Environment, Belgium

Dr. med Martin Dirk Dirksen-Fischer

Hamburg Port Health Center, Institut für Hygiene und Umwelt der, Germany

Prof. Raquel Duarte-Davidson

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Directorate - General of Health, Portugal

Dr. Rita Ferrelli

ISTITUTO SUPERIORE DI SANITA, Italy

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Fred. Olsen Cruise Lines, United Kingdom

Dr. Giorgio Guzzetta

Bruno Kessler Foundation, Italy

Prof. Stephan Harbarth

Geneva University Hospitals, Switzerland

Mrs. Li-Li Ho Ho

Taiwan CDC, Taiwan CDC

Dr. Adolfo Ibañez-Justicia

Ministry of Agriculture, Nature and Food Quality, Netherlands Food and Consumer Product Safety Authority (NVWA), Netherlands Institute for Vectors, Invasive plants and Plant Health (NIVIP), Centre for Monitoring of Vectors (CMV), The Netherlands

Dr Pavle Jelacic

Croatian Institute of Public Health, Croatia

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Ministry of Health, Public Health Services, Cyprus

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Institute of Communication and Computer Systems (ICCS), Greece

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University of South - Eastern - Norway, Norway

Dr. Galina Kokosharova

RHI VARNA, Bulgaria

Prof. Jenny Kremastinou

National School of Public Health, Greece

Prof. Prashant Kumar

University of Surrey, United Kingdom

Dr. Angel Kunchev

Ministry of Health, Bulgaria

Committees

Scientific Committee

Dr. Pierfrancesco Lepore

MSC CRUISE MANAGEMENT UK LTD, UK

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Directorate - General of Health, Italy

Mr. Giles Mason

Fred. Olsen Cruise Lines, United Kingdom

Dr. Angelos Andrea Menelaou

Frederick University, School of Business and Law, Department of Maritime Transport and Commerce, Cyprus

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Laboratory of Insects & Parasites of Medical Importance - Benaki Phytopathological Institute, Greece

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UK Health Security Agency, United Kingdom

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National Institute of Public Health, Slovenia

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Directorate of Public Health of the Region of Crete, Greece

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National and Kapodistrian University of Athens, Greece

Mr. George Papavasileiou

Institute of Communications and Computer Systems, I-SENSE Group, Greece

Dr. Nina Pirnat

National Institute of Public Health, Slovenia

Associate Professor Dr. Catalin Popa

Romanian Naval Academy "Mircea cel Batran", Romania

Captain (ret) USPHS

Laura Ann Rabb

MSC CRUISE MANAGEMENT UK LTD, United Kingdom

Dr. Robert R. Redfield

University of Maryland Senior Public Health Advisory Governor Hogan and state of Maryland, United States of America

Dr. Frank Roland

MV WERFTEN WISMAR GmbH, Germany

Committees

Scientific Committee

Prof. Haruko Satoh

OSIPP-IAFOR Research Centre, Osaka University, Japan

Dr. Clara Schlaich

Hafenpraxis Hamburg & German Seamen´s Mission, Germany

Mr. Niko Siilin

VTT Technical Research Centre of Finland Ltd., Finland

Mr. Mel Skipp

Carnival Corporation, United Kingdom

Mrs. Andrea Smith

Association of Port Health Authorities, United Kingdom

Ms. Eva Van der Wacht

COLUMBIA signature, Germany

Dr. Carmen Varela Martínez

National Centre of Epidemiology, Spain

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Region of Attica Hellas Piraeus Port Public Health Authority, Greece

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National Institute for Public Health and the Environment, The Netherlands

Assoc. Prof. Nikolaos Ventikos

National Technical University of Athens (NTUA), Greece

Assoc. Prof. Goran Vukelić

University of Rijeka, Faculty of Maritime Studies, Croatia

Ms. Kaitlyn West, MPH

COLUMBIA signature, Germany

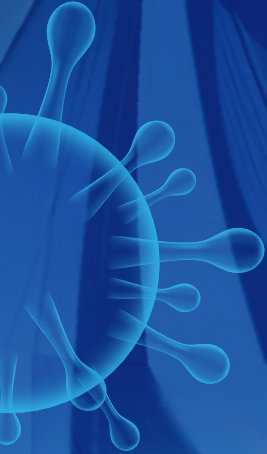
Mr. Robert Wilkinson

Norwegian Cruise Line Holdings Ltd., USA Head office - Global operation

Dr. Vasileios Zagkas

SimFWD P.C , Greece

Scientific Programme





Programme at a glance

Friday 21 October		
TIME	Auditorium	Lecture Hall
09:00-10:30	Round table: Crew occupational health	Workshop: Operators' perspective of COVID-19 prevention and control and lessons learned
10:30-10:40	Round table: COVID-19 prevention and control as part of routine operations	
10:40-11:20		Oral Presentations: Inspections
11:20-12:10		Oral Presentations: Environmental Health and Hygiene
12:10-12:30		
12:30-12:45	<i>Coffee Break / e-Poster Viewing</i>	
12:45-13:25	Round table: Norovirus gastroenteritis	Oral Presentations: Norovirus Gastroenteritis, COVID-19, influenza and other vaccine-preventable diseases
13:25-14:15		
14:15-15:15	<i>Lunch Break / e-Poster Viewing</i>	
15:15-16:30	Round table: Vaccination of travellers and crew members	
16:30-17:00	Lecture: Monkeypox in the transport industry	
17:00-17:15	<i>Coffee Break / e-Poster Viewing</i>	
17:15-18:45	Round table: Initiating a Dialogue forum for Global Collaboration in cruise ships	
19:00-20:30	Official opening ceremony	



Scientific Programme

Friday 21st October 2022

Auditorium

09:00-10:30 Round table 1: Crew occupational health

Chair: **V. Harth** (DE) 

Lecture

09:00-09:20 Perspectives on Crew Occupational Health and lessons learned from COVID-19

M. Oldenburg (DE) , **J. Heidrich** (DE)

Interventions

09:20-09:30 Crew changes during the pandemic

L. Anagnostopoulou (GR)

09:30-09:40 Crew repatriation in COVID-19 era

A. Guerra Neira (ES) 

09:40-09:50 Seafarers health and wellbeing during COVID-19: lessons learned

D. Andrioti Bygvraa (SE)

09:50-10:00 Prevention of Diabetes type 2 and Obesity, possibilities of long-term studies in seafarers through their Fitness Medical Examinations

M. Luisa Canals (ES) 

10:00-10:10 Crew changes and well-being during COVID-19 pandemic

N. Koletsis (ETF-EUROPE)

10:10-10:30 Panel discussion: All speakers

- a. Specific questions for each participant
- b. General questions for all participants



Friday 21st October 2022

Auditorium

10:30-12:30 Round table 2: COVID-19 prevention and control as part of routine operations
 Chair: **M. Dionisio** (IT)

Lectures

10:30-10:45 COVID-19 overview and perspectives in ships (virology, epidemiology, variants, diagnostics etc.)
Ch. Hadjichristodoulou (GR)

10:45-11:00 COVID-19 surveillance, prevention and response on board ships
V. Mouchtouri (GR)

Interventions

11:00-11:10 COVID-19 Global dimension - What did we learn from COVID-19 for better preparedness in the light of the IHR?
N. Wang (WHO HQ)

11:10-11:20 COVID-19 European dimension
F. Pou-Feliu (EMSA) 

11:20-11:30 COVID-19 - the National perspective
E. Agapidaki (GR) 

11:30-11:40 Risk in ship safety from COVID-19
N. P. Ventikos (GR)

11:40-11:50 National public health authority's perspective
C. Marotta (IT)

11:50-12:00 Advancing COVID-19 response in ports
T. Veenstra (NL)

12:00-12:30 Panel discussion: All speakers
 a. Specific questions for each participant
 b. General questions for all participants



Friday 21st October 2022

Auditorium


12:30-12:45 Coffee break/ e-Poster Viewing

12:45-14:15 Round table 3: Norovirus gastroenteritis

Chair: **J. Ames** (USA) 

Lecture

12:45-13:00 Current state of Norovirus (circulating strains, research, vaccine development and surface disinfection)


J. Vinje (US CDC) 

Interventions

13:00-13:10 Clinical diagnostics update and detection in environmental samples (food and water) on passenger ships

L-A. Jaykus (USA) 

13:10-13:20 Overview of GI outbreaks on board cruise ships

K. Jenkins (US CDC) 

13:20-13:30 Plasma technology for disinfecting cruise ship surfaces

J. Kolb (DE)

13:30-13:40 Gastroenteritis outbreaks on cruise ships: contributing factors and thresholds for early outbreak detection

M. Koureas (GR)

13:40-13:50 NoV outbreak early detection and response - lessons learned from COVID-19

M. Skipp (Carnival Corporation & plc) 

13:50-14:15 Panel discussion: All speakers
a. Specific questions for each participant
b. General questions for all participants

14:15-15:15 Lunch break / e-Poster Viewing



Friday 21st October 2022

Auditorium

15:15-16:30 Round table 4: Vaccination of travellers and crew members
Chair: **D. Andrioti Bygvraa** (SE)

Lecture

15:15-15:30 Overview and perspectives on vaccination of travellers and crew members

R. R. Redfield (USA) 

Interventions


15:30-15:40 Seafarer's vaccination- dos and don'ts

C. Schlaich (DE)

15:40-15:50 CLIA policy on vaccination

V. Gazikas (CELESTYAL)

15:50-16:00 Preparedness: access to vaccines during international emergencies

J. Bartnicka (DG MOVE) 

16:00-16:30 Panel discussion: All speakers
a. Specific questions for each participant
b. General questions for all participants

16:30-17:00 Lecture
Chairs: **S. Tsiodras** (GR), **J. Heidrich** (DE)

16:30-16:50 Monkeypox in the transport industry
T. Schmidt (WHO EURO) , **A. Vaughan** (WHO EURO) 

16:50-17:00 *Discussion*

17:00-17:15 Coffee Break/ e-Poster Viewing



Friday 21st October 2022

Auditorium

17:15-18:45 Round table 5: Initiating a Dialogue forum for Global Collaboration in cruise ships
Chairs: **N. Wang** (WHO HQ), **Ch. Hadjichristodoulou** (GR)

17:15-17:30 **EU Med regional cooperation - A. Avranas** (GR FP BE UfM)
/ **Mohammad Al-Sakran** (UfM) 

17:30-17:45 **US CDC - S. White** (USA) 

17:45-18:00 **AUSTRALIA - N. Klees** (AU) 

18:00-18:15 **EU HEALTHY GATEWAYS - M. Dionisio** (IT)

18:15-18:30 **CANADA - Sh. D. Parhar** (CN) 

18:30-18:45 **CLIA - N. Mertzandis** (CLIA)

19:00-20:30 Official opening ceremony
Chairs: **Ch. Hadjichristodoulou** (GR),
J. Kourea Kremastinou (GR), **V. Mouchtouri** (GR)

19:00-20:00 **Welcome addresses**

Official Opening

I.I. Plakiotakis

Minister of Maritime Affairs & Insular Policy

20:00-20:30 **Keynote speech: Public health in maritime transport: past, present and future**
N. Wang (WHO HQ)

21.00 Welcome Reception (Roof Top of Athens Marriott Hotel)

Kindly sponsored by  **MSC**



Friday 21st October 2022

Lecture Hall

09:00-10:40 WORKSHOP: Operators' perspective of COVID-19 prevention and control and lessons learned
Chairs: **M. Dávila Cornejo** (SP), **N. Mertzani** (CLIA)

Lectures

09:00-09:10 CLIA's perspective
M. Deligianni (CLIA)

09:10-09:20 EU policy perspective on crew changes: lessons learned from the pandemic
E. Ortiga (ECSA)

09:20-09:30 MEDCRUISE perspective
A. Güngör (MEDCRUISE)

Interventions

09:30-09:40 Cruise Industry perspective:
P. Lepore (MSC)

09:40-09:50 **E. Barton** (Carnival Corporation & plc)

09:50-10:00 **K. West** (Columbia Signature)

10:00-10:10 Inland Navigation Industry perspective
M. Van Helvoirt (European Barge Union) 

10:10-10:20 Ferries perspective
S. Kouloubis (ATTICA Group)

10:20-10:40 Panel discussion: All speakers
a. Specific questions for each participant
b. General questions for all participants



Friday 21st October 2022

Lecture Hall

10:40-11:20 Oral Presentations (OP01-OP04)

Thematic Session: Inspections

Chairs: **I. Boziaris** (GR), **B. Kopilović** (SI) 

(7 min presentation + 3 min discussion)

10:40-10:50 **OP01**

Ireland's response to the HG Cruise Liner Inspection Programme

Mr Gavin McDonnell

10:50-11:00 **OP02**

Ship Sanitation Certificates in EU Common Ship Sanitation Database

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, Nikos Bitsolas¹, Christos Hadjichristodoulou¹, Varvara Mouchtouri¹, and the EU HEALTHY GATEWAYS joint action partnership

¹ *Department of Hygiene and Epidemiology, Faculty of Medicine, University of Thessaly, Larissa, Greece; (L.K.); (E.P.C.); (J.A.); (N.M.); (C.H.); (V.M.)*

² *Ministry of Health, Directorate General for Health Prevention, Italy; (M.D)*

³ *Ministry of Health, Directorate General for Public Health, Spain; (M.D.)*

⁴ *Ministry of Health, Food Control and Environmental Health Services, Cyprus; (A.K.)*

⁵ *National Institute of Public Health, Slovenia; (B.K.)*

⁶ *National Public Health Centre, Lithuania; (E.G.)*

⁷ *Ministry of Transport and Construction, Slovak Republic; (I.D.), (M.P.)*

⁸ *Public Health Medicine, Health Services Executive, Ireland; (M.B.)*

⁹ *Hamburg Port Health Center, Germany; (M.D.F.)*



Friday 21st October 2022

Lecture Hall

¹⁰ Health Board, Department of CD Surveillance and Control, Estonia;
 (N.V.)

¹¹ Saniport Public Health Authority, Belgium; (R.V.D.B.)

¹² National Institute of Public Health and the Environment, The
 Netherlands; (T.V.)

11:00-11:10 OP03

SHIPSAN Routine Inspections between 2018 and 2022

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,
 Antonello Campagna², Nikos Bitsolas¹,
 Christos Hadjichristodoulou¹,
 Varvara Mouchtouris¹, and the EU HEALTHY GATEWAYS joint
 action partnership

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² Ministry of Health, Directorate General for Health Prevention, Italy;
 (M.D), (A.C)

³ Ministry of Health, Consumption and Social Welfare, Directorate
 General for Public Health, Quality and Innovation, Spain; (M.D.)

⁴ Ministry of Health, Food Control and Environmental Health
 Services, Cyprus; (A.K.)

⁵ National Institute of Public Health, Slovenia; (B.K.)

⁶ National Public Health Centre, Lithuania; (E.G.)

⁷ Ministry of Transport and Construction, Slovak Republic; (I.D.), (M.P.)

⁸ Public Health Medicine, Health Services Executive, Ireland; (M.B.)

⁹ Hamburg Port Health Center, Germany; (M.D.F.)

¹⁰ Health Board, Department of CD Surveillance and Control, Estonia;
 (N.V.)

¹¹ Saniport Public Health Authority, Belgium; (R.V.D.B.)

¹² National Institute of Public Health and the Environment, The
 Netherlands; (T.V.)




Friday 21st October 2022

Lecture Hall

11:10-11:20 **OP04**

Y.A.C.H.T.: Yes, A Challenging Tool to perform a ship sanitation exemption inspection on yacht

Mattia Latorre, Simone Latorre , Antonello Campagna
Italian Ministry of Health - Liguria Health Port Authority

11:20-12:10 **Oral Presentations (OP05-OP09)**

Thematic Session: Environmental Health and Hygiene

Chairs: **A. Smith** (UK) , **A. Barbouni** (GR)

(7 min presentation + 3 min discussion)


11:20-11:30 **OP05**

Cruise ships and ferries medical facilities requirements: an operative guideline used in the authorization activity

Antonello Campagna, Rosa Maria Russo
Italian Ministry of Health Liguria Health Port Authority

11:30-11:40 **OP06**

Seawater contamination of potable water shoreside during freight ferry bunkering at an international port

Margaret M. Brennan^{1,2} , Louise Hendrick³, Deirdre O'Brien^{2,4}, Stephen Burke⁵, Máirín Boland^{2,6}, Helena Murray

¹ *Department of Public Health, HSE East*

² *Health Service Executive National Port Health Network*

³ *Department of Health*

⁴ *Environmental Health Services, HSE*

⁵ *Dublin City Council - Central Laboratory and Water Services Division*

⁶ *Office of the National Clinical Director of Health Protection, Health Protection Surveillance Centre (HPSC)*



Friday 21st October 2022

Lecture Hall

11:40-11:50 **OP07**
Potable water quality on non-passenger ships calling Belgian ports

Leonidas Kourentis¹, LEMONIA Anagnostopoulos¹,
 Zafeiris Tsinaris¹, Achilleas P. Galanopoulos^{1,2},
 Diederik Van Reusel³, Raf Van den Bogaert³, Björn Helewaut³,
 Inge Steenhout³, Dion Damman⁴, Christos Hadjichristodoulou¹,
 Varvara A. Mouchtouri¹

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

² Department of Immunology & Histocompatibility, Faculty of
 Medicine, University of Thessaly, Greece

³ Seaport Cell, Antwerp, Belgium

⁴ Federal Environmental Inspection (Biocides and Pesticides,
 Dangerous Products), Federal Public Services Health, Safety of the
 Food Chain and Environment, Victor Hortaplein 40/10, Brussel,
 Belgium

11:50-12:00 **OP08**
Legionella spp. colonization on non-passenger ships calling Belgian ports

Leonidas Kourentis¹, LEMONIA Anagnostopoulos¹,
 Zafeiris Tsinaris¹, Achilleas P. Galanopoulos^{1,2},
 Diederik Van Reusel³, Raf Van den Bogaert³, Björn Helewaut³,
 Inge Steenhout³, Dion Damman⁴, Christos Hadjichristodoulou¹,
 Varvara A. Mouchtouri¹

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³ Seaport Cell, Antwerp, Belgium

⁴ Federal Environmental Inspection (Biocides and Pesticides,
 Dangerous Products), Federal Public Services Health, Safety of the
 Food Chain and Environment, Victor Hortaplein 40/10, Brussel,
 Belgium



Friday 21st October 2022

Lecture Hall

12:00-12:10 **OP09**

Prevention of Legionella infections in shipboard medical facilities: a proposal to include the use POU filters in the preventative plan


Simone Latorre , Mattia Latorre, Federica Zedda,
Antonello Campagna

Italian Ministry of Health, Liguria Health Port Authority

12:30-12:45 **Coffee break/ e-Poster Viewing**

12:45-13:25 **Oral Presentations (OP10-OP13)**

Thematic Session: Norovirus Gastroenteritis, COVID-19, influenza and other vaccine-preventable diseases

Chairs: **A. Lagiou** (GR), **I. Dubrovova** (SK) 

(7 min presentation + 3 min discussion)

12:45-12:55 **OP10**

Pilot implementation of SARS-CoV-2 wastewater surveillance on cruise ships arriving at the port of Piraeus from June to November 2021

Michalis Koureas¹, Maria Kyritsi¹, Alexandros Vontas¹,
Leonidas Kourentis¹, Charalampos Vasileiou²,

Varvara A. Mouchtouri¹, Christos Hadjichristodoulou¹

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

²Department of Hygiene Inspections of the Port of Piraeus, Region of Attica, Athens



Friday 21st October 2022

Lecture Hall

- 12:55-13:05 **OP11**
Conditions which facilitated extensive spread of SARS-CoV-2 Delta Variant among vaccinated individuals during a 7-day river cruise
Thijs Veenstra¹, Patrick D. van Schelven², Yvonne M. ten Have¹, Corien M. Swaan¹, Willem M. R. van den Akker¹
¹ *National Institute for Public Health and the Environment, Bilthoven, The Netherlands*
² *Municipal Health Services Gelderland-Midden, Arnhem, The Netherlands*
- 13:05-13:15 **OP12**
Covid 19 at Dumai Sea: One Year Study on a Commerce ships
Mr. Firman¹, Dr. Suyanto²
¹ *Quarantine & Epidemiology Surveillance Services -Dumai Port Health Center, CDC Directorate General, Ministry of Health Indonesia*
² *Border Health Study, Medical faculty, University of Riau, Pekanbaru, Riau Indonesia*
- 13:15-13:25 **OP13**
Multiple varicella outbreaks on cruise ships belonging to the same company
Miguel Dávila Cornejo, Iratxe Moreno Lorente, Lourdes Oliva Íñiguez, Rocío Palmera Suarez, Sergio Béjar Serrano, Patricia López Pereira, Inmaculada Vera Gil, Concepción Sánchez Fernández, Gloria González Díaz, Raquel Ruiz Páez, Irene Wijers and Fernando Carreras Vaquer
Deputy Directorate of Foreign Health, Directorate General of Public Health, Ministry of Health, Spain



Programme at a glance


Saturday 22 October		
TIME	Auditorium	Lecture Hall
09:00-09:40	Round table: Prevention of airborne transmitted diseases - Technology and innovations in air-conditioning and ventilation systems	Oral Presentations: Crew occupational health
09:45-10:30		Oral Presentations: Crew occupational health (contin.)
10:30-10:35	Lecture: Prevention of vector-borne diseases at PoE and on ships and integrated pest management	
10:35-11:00		
11:00-11:15	<i>Coffee Break / e-Poster Viewing</i>	
11:15-11:55	Round table: Prevention of foodborne diseases: construction, technology, innovation, outbreaks, new food safety challenges on board	Oral Presentations: Preparedness and response to infectious diseases
12:00-12:15		Oral Presentations: Cross-border health threats related to maritime transport sector
12:15-12:40	Round table: Prevention of waterborne diseases	
12:40-13:45		
13:45-14:45	<i>Lunch Break / e-Poster Viewing</i>	
14:45-16:15	Round table: News about fast and reliable diagnostics on board and ashore	
16:15-16:30	<i>Coffee Break / e-Poster Viewing</i>	
16:30-16:45	Round table: Health and hygiene at ports and terminals	
16:30-18:00		
18:00-18:30	Closing Ceremony	




Saturday 22nd October 2022


Auditorium

09:00-10:30 Round table 1: Prevention of airborne transmitted diseases - Technology and innovations in air-conditioning and ventilation systems

Chairs: **E. Galea** (UK) , **N. Siilin** (FI)

Lectures


09:00-09:20 Principles of airborne transmission and why it was neglected
G. Buonanno (IT) 

09:20-09:40 Ventilation as engineering control measure to reduce COVID-19 airborne transmission
J. Kurnitski (EE) 

09:40-10:00 An industry perspective (e.g. cruise line HVAC design changes during the pandemic, use of air purifier and UVC)
P. Lepore (MSC)

10:00-10:30 Panel discussion: All speakers
 a. Specific questions for each participant
 b. General questions for all participants

10:30-11:00 Lecture

Chairs: **C. Swaan** (NL), **M. Ferreira** (PT) 

Lecture

10:30-10:45 Prevention of vector-borne diseases at PoE and on ships and integrated pest management
N. Papadopoulos (GR)

Interventions

10:45-10:50 **A. Ibáñez-Justicia** (NL) 

10:50-10:55 **A. Michaelakis** (GR) 

10:55-11.00 *Discussion*



Saturday 22nd October 2022

Auditorium

11:00-11:15 Coffee break/ e-Poster Viewing

11:15-12:15 Round table 2: Prevention of foodborne diseases:
construction, technology, innovation, outbreaks, new food
safety challenges on board

Chair: **M. Boland** (IR)

Lectures

11:15-11:30 International outbreaks challenging food safety
K. Mellou (GR)

11:30-11:45 Innovations for food safety
Ch. Otto (USA) 

Interventions

11:45-11:55 Challenges for food safety from food service innovative activities
and procedures
A. Matic (MSC)

11:55-12:05 Best practice for food safety on board cargo ships
N. Stylianou (MCTC consultancy) 


12:05-12:15 Panel discussion: All speakers
a. Specific questions for each participant
b. General questions for all participants



Saturday 22nd October 2022

Auditorium

12:15-13:45 Round table 3: Prevention of waterborne diseases

Chairs: **S. Crespi** (ES) , **G. Nichols** (UK)

Lectures

12:15-12:30 Waterborne Diseases on board ships

G. Nichols (UK)


12:30-12:45 Prevention of Legionnaires disease

S. Crespi (ES) 

12:45-13:00 Water Safety Plan

V. Mouchtouri (GR)

13:00-13:15 Backflow prevention

J. Ames (USA) 

Intervention

13:15-13:25 Water related findings recorded during Ship Sanitation Certificates (SSCs) and routine inspections against the standards of the European Manual for Hygiene Standards and Communicable Diseases Surveillance on passenger ships

L. Kourentis (GR)

13:25-13:45 Panel discussion: All speakers

a. Specific questions for each participant

b. General questions for all participants


13:45-14:45 Lunch break / e-Poster Viewing




Saturday 22nd October 2022

Auditorium

14:45-16:15 Round table 4: News about fast and reliable diagnostics on board and ashore

Chairs: **J. Klein** (NO), **G. Vukelić** (HR) 

Lectures

- 14:45-15:00 New enabling lab-on-a-chip technologies for accurate molecular control of disease on board maritime transport systems
F. Karlsen (NO)
- 15:00-15:15 Sensitivity and specificity of Rapid tests for COVID-19: results from the pre-embarkation screening in EU
M. Kyritsi (GR)
- 15:15-15:30 Leveraging the power of IOT to ensure onboard Health & Safety
A. Marjamaa (RAALabs)
- 15:30-15:45 Point-of-care diagnostic medical devices and the potential practical application on board ships.
E. Petinaki (GR) 
- 15:45-16:15 Panel discussion: All speakers
a. Specific questions for each participant
b. General questions for all participants

16:15-16:30 Coffee break/ e-Poster Viewing



Saturday 22nd October 2022

Auditorium

16:30-18:00 Round table 5: Health and hygiene at ports and terminals

Chairs: **A. Papachristou** (GR), **A. Güngör** (TR)

Lectures

16:30-16:45 Simulation exercises at ports - the Spanish experience

M. Dávila Cornejo (ES)

16:45-17:00 Covid-19: terminal operators have won the challenge

T. Cognolato (IT)

17:00-17:15 Heraklion Port: Resuming cruise operation in East Mediterranean in pandemic Covid-19 era

M. Papadakis (GR)

17:15-17:30 An Exemplary Collaboration: EU Healthy Gateways & The Reopening of Turkish Cruise Ports

A. Güngör (TR)

17:30-18:00 Panel discussion: All speakers

a. Specific questions for each participant

b. General questions for all participants

18:00-18:30 CLOSING CEREMONY

Chairs: **Ch. Hadjichristodoulou** (GR),

J. Kourea Kremastinou (GR), **V. Mouchtouri** (GR)



Saturday 22nd October 2022

Lecture Hall

09:00-09:40 Oral Presentations (OP14-OP17)

Thematic Session: Crew occupational health

Chair: **Th. Constantinidis** (GR)

(7 min presentation + 3 min discussion)

09:00-09:10 **OP14**

Occupational Health on Merchant Ships during COVID-19

Kristina Militzer¹, Franziska Labe¹ Martin Dirksen-Fischer²,
Matthias Boldt², Birgit Grassl², Christina Stabenow², Volker Harth¹,
Jan Heidrich¹

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University Medical Center Hamburg-Eppendorf, Hamburg, Germany*

² *Hamburg Port Health Center (HPHC), Institute for Hygiene and
Environment, Hamburg, Germany*

09:10-09:20 **OP15**

**Transformation of a ferry in a covid 19 ship hospital: crew
occupational safety and health issues according to the
experience of Liguria Public Health Port Authority**

Antonello Campagna¹, Paolo Cremonesi², Rosa Maria Russo¹

¹ *Italian Ministry of Health, Liguria Health Port Authority*

² *Department of Emergency Medicine, Galliera Hospital, Genoa, Italy*

09:20-09:30 **OP16**

**Occupational Diseases and Injuries on board Ships: a Preliminary
Analysis for an Epidemiological Observatory of Seafarers**

Getu Gamo Sagaro¹, Ulrico Angeloni², Marzio Di Canio^{1,3},

Claudia Marotta², Giovanni Rezza², Andrea Silenzi²,

Francesco Amenta^{1,3}

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



Saturday 22nd October 2022

Lecture Hall

09:30-09:40 **OP17**

Remote monitoring of ship pharmacy. An experience of maritime telepharmacy

Giulio Nittari¹, Antonio Arcese², Francesco Amenta^{1,3}

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09:45-10:35 Oral Presentations (OP18-OP22)

Thematic Session: Crew occupational health (contin.)

Chairs: **E. Nena** (GR), **J. Heidrich** (DE)

(7 min presentation + 3 min discussion)

09:45-09:55 **OP18**

Psychological safety, bullying, sexual assault and harassment in the maritime sector

Eva Lianne Veldkamp¹ , Despoina Andrioti Bygvraa²,
 Hannah E. Dawicki³ , Morgan G. Dawicki⁴, for the working
 group

¹ *IMO Policy Coordinator, Dominica Maritime Administration.*

Leads working group on Psychological Safety, bullying and SASH in the Maritime Sector, Center for Ocean Policy and Economics.

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⁴ *Director of International Relations, Northeast Maritime Institute*



Saturday 22nd October 2022

Lecture Hall

09:55-10:05

OP19

Comprehensive action to address seafarers' challenges since the COVID-19 pandemic - A pragmatic approach to human rights at sea

Hannah E. Dawicki³ , Eva Lianne Veldkamp¹ ,

Despoina Andrioti Bygvraa², Morgan G. Dawicki⁴, for the working group

¹ *IMO Policy Coordinator, Dominica Maritime Administration.*

Leads working group on Psychological Safety, bullying and SASH in the Maritime Sector, Center for Ocean Policy and Economics.

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³ *Director of Digital Operations, Northeast Maritime Institute*

⁴ *Director of International Relations, Northeast Maritime Institute*

10:05-10:15

OP20

Seafarers' health and wellbeing during COVID-19: lessons learned

Despoina Andrioti Bygvraa¹, Margarita Kanaki²,

George Charalambous³

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² *MSc Public Health, Centre of Maritime Health and Society, University of Southern Denmark*

³ *Surgeon, Director of ER, Hippokration Hospital*



Saturday 22nd October 2022

Lecture Hall

10:15-10:25 **OP21**
COVID-19 protocols and its effect on seafarers' health and wellbeing

Amit Timilsina^{1,2} , Fereshteh Baygi³

¹ *M.A in Gender Studies, Tribhuvan University, Nepal*

² *MSc. in Public Health, Department of Public Health, University of Southern Denmark*

³ *Senior Researcher, Research Unit of General Practice*

10:25-10:35 **OP22**
e-healthy ship: new approaches for improving health management on merchant vessels

Lukas Belz, Dorothee Dengler, Chiara Reck, Thomas von Münster, Jan Heidrich, Volker Harth and Marcus Oldenburg
Institute for Occupational and Maritime Medicine (ZfAM), University Medical Center Hamburg-Eppendorf (UKE), Hamburg

11:00-11:15 COFFEE BREAK / e-Poster Viewing

11:15-11:55 Oral Presentations (OP23-OP26)
Thematic Session: Preparedness and response to infectious diseases

Chairs: **J. Kremastinou** (GR), **L. De Marez** (BE)

(7 min presentation + 3 min discussion)

11:15-11:25 **OP23**
Developing a framework for health risk assessment, by integrating infection and spreading aspects into RBD

Nikolaos P. Ventikos, Panagiotis Sotiralis, Manolis Annetis, Frank Roland

School of Naval Architecture and Marine Engineering, National Technical University of Athens, Greece



Saturday 22nd October 2022

Lecture Hall

11:25-11:35 **OP24**

Mass casualty incident in the port of Hamburg - large-scale exercise during the COVID-19 pandemic

Lena Ehlers¹, Matthias Boldt¹, Birgit Grassl¹,
Scarlett Kleine-Kampmann¹, Elisabeth Hewelt¹,
Christina Stabenow¹, Kea-Sophie Weber¹, Jens de Boer¹,
Kristina Militzer², Thomas von Münster², Jan Heidrich²,
Marcus Oldenburg², Volker Harth², Sinan Bakir³,
Martin Dirksen-Fischer¹

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³ *Department of Trauma and Reconstructive Surgery and Rehabilitative Medicine, Medical University Greifswald, Greifswald, Germany*

11:35-11:45 **OP25**

Maritime Public Health Cross border cooperation: Principality of Monaco and Italian Liguria health port authority best practices.

Antonello Campagna¹, Marco Mela², Mattia Latorre¹,
Federica Zedda¹, Thomas Althaus³, Eric Voiglio³

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² *Public Health Service, Health Local Unit 1 Imperia (Italy)*

³ *Department of Public Health, Directorate of Health Affairs, Principality of Monaco*





Saturday 22nd October 2022

Lecture Hall

11:45-11:55 **OP26**

Developing an interoperable port health contingency plan

Robert Conway¹ , Margaret M. Brennan² , Paul Mullane²,
Clíodhna O'Mahony¹, Finán Gallagher³, Gavin McDonnell³,
Brendan Lawlor⁴, Darryl Coen⁵, Regina Kiernan⁶,
Margaret B. O'Sullivan⁷, Máirín Boland^{1,8}

¹ Office of the National Clinical Director for Health Protection, HSE

² Department of Public Health East, HSE

³ Environmental Health, HSE

⁴ Emergency Management, HSE

⁵ National Ambulance Service, HSE


⁶ Department of Public Health West, HSE

⁷ Department of Public Health South, HSE

⁸ *Chair of HSE Multi-disciplinary Port Health Network*

12:00-12:40 Oral Presentations (OP27-OP30)

Thematic Session: Cross-border health threats related to maritime transport sector

Chairs: **Ch. Papadopoulos** (GR) , **P. Prezerakos** (GR)

(7 min presentation + 3 min discussion)

12:00-12:10 **OP27**

Quarantine vessels and irregular migration: new public health measures against SARS-COV-2

Laura Pecoraro¹, Salvatore Zichichi¹, Emanuela Maria Frisciale²,
Claudia Marotta², Domenico Stabile¹, Claudio Pulvirenti¹,
Ulrico Angeloni², Giorgia Battaglia³, Giovanni Rezza²,
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Saturday 22nd October 2022

Lecture Hall

12:10-12:20 **OP28**

Using the intra-action review methodology at European level to assess effectiveness of measures for cruise ship operations in the COVID-19 context

Lemonia Anagnostopoulos^{1,2}, Leonidas Kourentis^{1,2},
Miguel Dávila-Cornejo^{2,3}, Iratxe Moreno Lorente^{2,3},
Mauro Dionisio^{2,4}, Claudia Marotta^{2,4},

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² *EU joint action HEALTHY GATEWAYS*

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

⁴ *Ministry of Health, Italy*

12:20-12:30 **OP29**

Communication of public health events on ships through the EU Common Ship Sanitation Database

Leonidas Kourentis¹, Miguel Dávila Cornejo², Elina Kostara¹,
Nikos Bitsolas¹, Lemonia Anagnostopoulos¹,

Christos Hadjichristodoulou¹, Varvara A. Mouchtouri¹ and the EU HEALTHY GATEWAYS partnership

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² *Health Control Unit Deputy Directorate General of Foreign Health Directorate General for Public Health, Quality and Innovation, Ministry of Health, Consumption and Social Welfare, Paseo del Prado 18-20, Madrid, Spain*



Saturday 22nd October 2022

Lecture Hall

12:30-12:40 **OP30**

EU HEALTHY GATEWAYS joint action - Contributions to European public health preparedness and response at points of entry

Varvara A. Mouchtouri¹, Lemonia Anagnostopoulou¹, Mauro Dionisio², Martin Dirksen-Fischer³, Janusz Janiec⁴, Elina Kostara¹, Nikolaos Bitsolas¹, Jan Heidrich⁵, Kristina Militzer⁵, Brigita Kairiene⁶, Doret de Rooij⁷, Corien Swaan⁷, Leonidas Kourentis¹, Eleni Christoforidou¹, Peter Otorepec⁸, Nina Pirnat⁸, Rita Ferrelli⁹, Raquel Duarte Davidson¹⁰, Tom Gaulton¹⁰, Christos Hadjichristodoulou¹, and the EU HEALTHY GATEWAYS partnership

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⁵ *Institute for Occupational and Maritime Medicine, University Medical Center Hamburg-Eppendorf, Germany*

⁶ *National Public Health Center, Lithuania*

⁷ *National Institute of Public Health and the Environment, RIVM, Netherlands*

⁸ *National Institute of Public Health, Slovenia*

⁹ *ISTITUTO SUPERIORE DI SANITA, Italy*

¹⁰ *UK Health Security Agency*



e-Posters

Crew occupational health

eP01

Advanced telemedicine solutions for high-quality medical assistance at sea

Francesco Amenta^{1,2,3}, Marzio Di Canio^{1,2}, Antonio Arcese³, Francesco Bajani³,
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eP02

Advanced remote telehealth assistance for seafarers using an expert system called Marine Doctor

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eP03

MMVFs onboard ships: from an observational study to the development of MMVFs safety plans

Margherita Congiu¹, Antonio Collovà², Antonio Salzano³

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Cross-border health threats related to maritime transport sector

eP04

The soft-power approach to Ship Sanitation

Luis Alfredo Bautista Balbás¹, Iratxe Moreno Lorente², Miguel Dávila Cornejo²

¹ *Port Authority of Santander. Government Delegation in Cantabria. Ministry of Territorial Policy. Government of Spain*

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Norovirus Gastroenteritis, COVID-19, influenza and other vaccine-preventable diseases

eP05

COVID-19, travel companion: The Spanish experience on cruise ships

Iratxe Moreno Lorente, Rocío Palmera Suarez, Lourdes Oliva Íñiguez, Miguel Dávila Cornejo, Sergio Béjar Serrano, Patricia López Pereira, Inmaculada Vera Gil, Concepción Sanchez Fernandez, Gloria González Díaz, Irene Wijers and Fernando Carreras Vaquer

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eP06

After Action Review of Coronavirus disease 19 response in the Port of Rotterdam

Tirsah S. Koster¹, Saskia van Leeuwen-Voerman¹, Saskia Wiegman², S.W. van Dijk²

¹ *GGD Rotterdam-Rijnmond*

² *Port of Rotterdam*

eP07

Covid on the seas: SARS-CoV-2 in commercial shipping, Port of Rotterdam, the Netherlands, 2020-2021

Edward Gebuis¹, Bruno Vieyra¹, Rob Slegtenhorst², Saskia Wiegman², Bas van Dijk², Thijs Veenstra³, Saskia Tejlant¹, Ewout Fanoy¹, Annemieke de Raad¹, Marion Koopmans^{4,5}, René de Vries², Saskia van Leeuwen-Voerman¹, Jane Whelan¹

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eP08

SARS-CoV-2 outbreaks on sea cruise ships: port of Amsterdam, the Netherlands: a descriptive study Feb.- Sept. 2022

Mariëtte Boswijk, Djurre Bismeyer and Jaap Boreel

GGD Amsterdam



Preparedness and response to infectious diseases

eP09

A Review on COVID-19 and Coastal Management

Lee Shin Yun^{1,2}, Cherdvong Saengsupavanich²

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Prevention of foodborne, waterborne and vector-borne diseases

eP10

Monitoring for native and invasive mosquitoes at the Limassol port in Cyprus

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Scientific Information

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You are kindly requested to deliver your presentation(s) to the technical support personnel at least two (2) hours before the beginning of the Session that you participate. If the presentation is scheduled early in the morning, you are kindly requested to check your presentation with the technical support personnel the day before.

ORAL PRESENTATIONS

Duration: Each oral presentation should not exceed 7 minutes. It will be followed by 3 minutes discussion. Speakers are strongly advised to be consistent with the time slots (as provided by the scientific program), respect the flow of each session and the exact time available for each presentation.

e-POSTER VIEWING

All e-posters will be displayed on exclusive plasma screens (ppt form) and will be available during all Sessions of the Meeting and online on a special section of the official Meeting website.

The Proceedings of the Congress will be published in:



*medical sciences
forum*
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VENUE

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Conference Center - Auditorium
387, Syngrou Ave. Palaio Faliro - Athens
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The Conference Centre capacity is set according to the current guidelines of the National Public Health Organization.

DATES & HOURS

Scientific Program

Friday, October 21, 2022 09:00 - 20:30

Saturday, October 22, 2022 09:00 - 18:30

Secretariat/Technical Support

Friday, October 21, 2022 08:00 - 20:30

Saturday, October 22, 2022 08:00 - 18:30

LANGUAGE & TIME

The official language of the Conference is English. Simultaneous translation (interpretation) will not be provided.

The Conference will be held in Eastern European Summer Time Zone (EEST) (CET+1 or GMT+3) Conference rooms are equipped with the latest technology in order to facilitate the conference functions.



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All registered participants are entitled to receive a Certificate of Attendance. The certificate of attendance will be provided to all registered participants upon completion of 60% of attendance. The certificate will be available electronically through the official website www.shipsancongress2022.eu

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All participants wishing to receive their Certificate of Attendance, will be requested to complete a relative Evaluation Form (electronic & anonymous) as feedback of their experience during the Symposium. A link will be provided through email after the completion of the congress. You may also find information at the official website www.shipsancongress2022.eu

LIVE WEBCASTING - VIDEOS ON DEMAND

All the sessions of the main hall AUDITORIUM will be available for Live Webcasting and on demand (after the completion of the congress) through the official website www.shipsancongress2022.eu

The sessions of the parallel hall LECTURE HALL will not be available for Live Webcasting neither on demand.

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The Organizers as well as the Organizing-Administrative Bureau of the congress will assume no liability for injuries or losses of any nature incurred by participants and/or accompanying persons, or for the damage, loss, or theft of their personal property during the Symposium. Participants are advised to take out their own health, travel, and personal insurance.

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