

VIII International Scientific Conference EpiMilitaris 2022
CBRN Epidemiology and Security - Innovations, Technologies, Practice.

April 11-13, 2022.
"CASTLE OF RYN" in Ryn



Honor Patronage:



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WOJSKOWY INSTYTUT MEDYCYNY LOTNICZEJ
Military Institute of Aviation Medicine

Organizers:

1. Polish Armed Forces Epidemiological Response Center,
2. Association of Defense Communities Movement,
3. Military Institute of Armament Technology,
4. The Jagiellonian University Medical College. Department of Disaster Medicine and Emergency Care,
5. Institute of Optoelectronics of the Military University of Technology.

Partners:



Scientific Committee

Prof. Andrzej Makowski, PhD - Faculty of Command and Maritime Operations of the Naval Academy in Gdynia

Jarosław Teska, prof. of the Naval Academy - Vice Rector for education and student affairs at the Naval Academy in Gdynia

Colonel Rafał Bazela - Military Institute of Armament Technology

Capt (N) Bartłomiej Pączek, hab.PhD - Dean of the Faculty of Command and Maritime Operations of the Naval Academy in Gdynia

Capt (N) Wojciech Sokołowski, hab.PhD - Deputy Dean of the Faculty of Command and Maritime Operations of the Naval Academy in Gdynia

Col Michał Ceremuga. PhD - Director of the Military Institute of Armament Technology

Col. Radosław Skrzypczyński - Commander of Epidemiological Response Centre of Polish Armed Forces

Anna Mróz – Jagiełło, PhD- President of the Defence Communities Movement Association/War Studies University

Arkadiusz Trzos MD - Jagiellonian University - Collegium Medicum Jagiellonian University

LtCol Jacek Stempień, Ph.D. - Deputy Chairman of the Defence Communities Movement

Dariusz Nowak, PhD - Member of the Board of the Defensive Communities Movement Association

Ewelina Maculewicz, MD - Military Institute of Aviation Medicine

Capt Izabela Tomaszewska, PhD - Center for Epidemiological Response of the Polish Armed Forces

Organizing Committee

Colonel Michał Ceremuga, PhD - Director of the Military Institute of Armament Technology

Anna Mróz - Jagiełło, PhD- President of the Association of Defense Communities Movement

Jarosław Walczak, PhD- Military Institute of Armament Technology/SRWO

Col Anna Osowska - Rembecka - Vice President of the Defence Communities Movement Association

LtCol Jacek Stempień, PhD - Vice President of the Association Defense Communities Movement

LtCol. Agata Przewrocka - Plak - Centre for Epidemiological Response of the Polish Armed Forces

LtCol Katarzyna Sala - Association "Movement of Defence Communities

LtCol Łukasz Krzowski - Epidemiological Response Centre of the Polish Armed Forces

Lt Anna Pogorzelska - Epidemiological Response Centre of the Polish Armed Forces

Małgorzata Nadulicz, MA - Military Institute of Armament Technology/ Secretary SRWO

Karolina Ćwik-Kącka MA - Military Institute of Armament Technology

Aldona Przybylska-Lemieszczuk, MA - Military Institute of Armament Technology

CONFERENCE AGENDA

11.04.2022 (Monday) – Day 1	
08.30-10.00	Participant registration
Inaugural Session (Hall of Jagiellonians)	
10.00-11.00	Opening of the Conference, welcoming the guests Anna Mróz-Jagiello, PhD , The President of the Defence Communities Movement Association, Representative of the Commander of the Epidemiological Response Centre of the Polish Armed Forces – LtCol Agata Przewrocka - Plak Director of the Military Institute of Armament Technology - Col Michal Ceremuga Address by Aurelia Ostrowska, PhD, Director of the Department of Military Health Services
11.00-11.30	Opening lecture I Epidemiological safety Col Tadeusz Nierebiński - Chief Sanitary Inspector of Polish Army
11.30-12.00	Opening Lecture II Can we prepare for crises - the perspective of strategic reserves. Michał Kuczmierowski President of the Governmental Agency for Strategic Reserves
12.00-12.30	Opening Lecture III To extract or not to extract - chemical weapons in the Baltic Sea Bartłomiej Pączek, hab.PhD , Dean of Command and Maritime Operations Faculty Naval Academy in Gdynia
12.30-13.00	Discussion
13.00-14.00	Lunch
Panel 1: Innovations and applications of modern technologies in the field of CBRN	
Moderator: Tadeusz Nierebiński PhD, LtCol Łukasz Krzowski	
Hall of Jagiellonians	
14.00-14.25	CBRNemed specialist medical rescue teams - a proposal for systemic solutions Arkadiusz Trzos Department of Disaster Medicine and Emergency Care, Jagiellonian University
14.25-14.50	Development of epidemiological response capability of Polish Armed Forces in the light of World Health Organization standards. LtCol Luke Krzowski Biological Threats Laboratory, Center for Biomedical Engineering, Institute of Optoelectronics, Military University of Technology
14.50-15.15	Latest developments in biological contamination detection for the armed forces - a review Monika Kuligowska M.Sc. Department of Radiometry and Monitoring of Contamination, Institute of Chemistry, Military University of Technology
15.15-15.40	Coffee break
15.40-16.05	Contemplation of 16S DNA sequencing. Metagenomics in the identification of infectious agents in septic patients. Lt Martin Chmel Military Health Institute, Ministry of Defence of the Czech Republic.
16.05-16.30	Platform of MON medical services Maja Jasińska-Łukasiak, PhD , - Department of Military Health Services of MOD

16.30-16.50	Discussion
17.00-17.45	Artistic performance: Representative Artistic Ensemble of the Polish Army
18.00	Dinner

12.04.2022 (Tuesday) – Day 2

Panel 2: Workshops

Chairpersons: LtCol Łukasz Krzowski, PhD, Arkadiusz Trzos,

With conference participants divided into two groups:

	I group of conference participants	II group of conference participants
9.30-11.00	<p>New epidemiological response capabilities - a proposal for solutions.</p> <p>Laboratory of Biological Hazards, Center for Biomedical Engineering of the Institute of Optoelectronics WAT / Complex of Laboratories of SZ Epidemiological Response Center</p> <p>Location: King Władysław Jagiello Hall</p>	<p>Biological triage and decontamination of victims of a CBRN event</p> <p>Department of Disaster Medicine and Emergency Care, Collegium Medicum of the Jagiellonian University.</p> <p>Location: Square in front of the hotel from the parking lot</p>
11.00–11.30	Coffee break	
11.30-13.00	<p>Biological triage and decontamination of victims of a CBRN event</p> <p>Department of Disaster Medicine and Emergency Care, Collegium Medicum of the Jagiellonian University.</p> <p>Location: Square in front of the hotel from the parking lot</p>	<p>New epidemiological response capabilities - a proposal for solutions.</p> <p>Laboratory of Biological Hazards, Center for Biomedical Engineering of the Institute of Optoelectronics WAT / Complex of Laboratories of SZ Epidemiological Response Center</p> <p>Location: King Władysław Jagiello Hall</p>
Description of practical parts	<p><u>New epidemiological response capabilities - proposed solutions.</u></p> <p>WAT in cooperation with the Polish Armed Forces CRE will conduct a demonstration of the use of "small" field laboratory together with a discussion of the operation of the proposed solutions for the identification and characterization of biological agents in light of World Health Organization standards. The principles of safe laboratory work in the diagnosis and characterization of infectious agents will be discussed.</p>	

	<p>During the exercises, the mobile glove box, the system of field identification of biological agents using Real Time PCR method and the system of field sequencing of the third generation of nanopore method will be used.</p> <p><u>Evacuation, triage and decontamination of victims of a CBRNE event.</u></p> <p>During the show there will be presented capabilities and detailed actions of rescuers, operating in different zones of rescue operations during a CBRN threat, with an additional threat of gunfire in the "hot" zone.</p> <p>Actions presented in each zone include:</p> <p>In the "hot" zone - evacuation of a patient during a threat of gunfire, using a tactical cover;</p> <p>In the "warm" zone - pyrotechnic triage, initial medical triage, instrumental protection of basic vital functions in a contaminated patient, cardiopulmonary resuscitation and preparation for decontamination;</p> <p>On the border of the zones - medical decontamination performed by the CBRNEmed. team, non-medical decontamination performed by fire department rescuers;</p> <p>In the "cold" zone - taking over of the patient by the transport team, initial and proper triage and securing the patient for the time of transport.</p> <p>In addition, during the show the observers will have the opportunity to learn about the equipment and tactics of CBRNEmed. teams, cooperating with a separate subdivision of the Polish Armed Forces.</p>	
13.00-14.00	Lunch	
	<p><u>Panel 3 Influence of environmental factors on soldiers' health</u> King Władysław Jagiello Main Hall</p> <p>Moderator: Ewelina Maculewicz, MD</p>	<p><u>Panel 4 Pandemic COVID - 19 as a challenge to the health care system and national security.</u> Hall of Princess Anne</p> <p>Moderator: LtCol Przemysław Romelczyk</p>
14.00–14.20	<p>Evaluation of exposure of soldiers and employees of the Ministry of National Defense to diseases transmitted by vectors - Ixodes ricinus ticks - practical aspects</p> <p>Lieutenant Urszula Bielat, Laboratory Complex of SZ Epidemiological Response Center</p>	<p>Using innovative solutions during the SARS-CoV-2 pandemic</p> <p>LtCol Przemysław Romelczyk, NATO Centre of Excellence for Military Medicine, Budapeszt, Węgry</p>

14.20-14.40	<p>Influence of tick-borne pathogens on health risks for soldiers in Poland.</p> <p>Maj Małgorzata Szczypek, Department of Laboratory Diagnostics WIML</p>	<p>Implementation of fundamental rights and freedoms of the individual during the COVID-19 pandemic. National and international regulations.</p> <p>LtCol Katarzyna Sala, War Studies University,</p>
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14.40 –15.00	<p>Mosquito-borne vector-borne diseases (with particular emphasis on West Nile fever).</p> <p>Ewa Gajda Laboratory Complex of the SZ Epidemiological Response Center</p>	<p>Infodemiology and info-surveillance - the experience of pandemic era.</p> <p>Cpl. Res. Andrzej Jarynowski M.Sc. AIDMED Institute for Interdisciplinary Research, Wrocław/Głogów, Poland Institute of Biometry and Epidemiology FU, Berlin, Germany</p>
15.00-15.20	<p>Endogenous risk factors for cardiovascular diseases (CVDs) in military personnel</p> <p>Agnieszka Bialek pharm. hab. PhD. WIML; Institute of Genetics and Animal Biotechnology PAS</p>	<p>The role of the Border Guard at airports in the era of the SARS-CoV-2 pandemic</p> <p>Lt BG Mariusz Urban. PhD, Border Guard Post in Bydgoszcz</p>
15.20-15.40	<p>Exposure of Air Force personnel to chemical oncogenic agents</p> <p>Pawel Rusin, PhD, Institute of Biological Sciences Cardinal Stefan Wyszyński University in Warsaw</p>	<p>Participation of the Regional Medical Supply Base of the Military Medical Institute in combating the effects of COVID-19 in the 1st Preventive and Treatment District</p> <p>Lieutenant Michał Marciniak M.Sc. Military Medical Institute in Warsaw</p>
15.40-16.00	<p>Radiation exposures of the Polish Armed Forces flying personnel.</p> <p>Col Krzysztof Kowalczyk Ph.D. Military Institute of Aviation Medicine</p>	<p>Monitoring the occurrence of SARS-CoV-2 in Prague wastewater.</p> <p>Iva Swierczkova Military Health Institute, Ministry of Defence of the Czech Republic</p>
16.00-16.20		<p>Overview of Anti Covid-19 Antibodies Levels after Vaccination in Armed Forces of Slovak Republic</p> <p>Tomas Molcanyi Military Health Institute, Ministry of Defence of Slovakia</p>

18.00-02.00	Gala dinner	

13.04.2022 (Wednesday) - Day 3	
Panel 5: <u>State security in a multifaceted dimension.</u>	
Hall of Jagiellonians	
Moderator: Dr Anna Mróz - Jagiello	
9.00-9.20	Pandemic covid-19 as a specific state threat - an attempt at assessment Dr Alicja Żukowska Faculty of Command and Maritime Operations, Naval Academy in Gdynia.
9.20-9.40	Telemedicine services and state public health safety. National legal and medical conditions. Dr Anna Cisowska-Maciejewska Medical University of Lodz
9.40-10.00	Telemedicine contracts and national security. National legal and medical conditions. Dr Ewa Cisowska-Sakrajda Voivodship Administrative Court in Lodz
10.00-10.20	Maritime dimension of Polish security Capt (N) ret. Prof. Andrzej Makowski Naval Academy
10.20-10.40	Contamination elimination - new challenges. Monika Kuligowska M.Sc. Department of Radiometry and Contamination Monitoring, Institute of Chemistry, WAT
10.40-11.00	Discussion
11.00-11.30	Summary and conclusion of the conference
12.00-13.00	Lunch